

APPENDIX O

Groundwater Quality Analytical Data

Hydro ID	Sample Date	Lab Sample ID	Page
2	09/07	R07090384-002	48
	11/07	R07110146-003	160
	02/08	R08020130-001	402
	05/08	R08050427-003	998
4	02/08	R08020130-002	405
5 (Previously 635)	09/07	R07090384-005	57
	11/07	R07110303-001	228
	02/08	R08020082-001	379
	04/08	R08040364-007	778
7	10/06	R06100076-004	24
	10/07	R07100002-009	130
	11/07	R07110146-002	157
	02/08	R08020220-002	438
	05/08	R08050419-002	963
8	09/07	R07090384-003	51
	11/07	R07110303-005	240
	11/07	R07110303-006	243
	02/08	R08020052-001	316
	05/08	R08050419-003	966
13	10/06	R06100076-005	27
	09/07	R07090385-005	90
	11/07	R07110146-007	172
	02/08	R08020220-004	444
	05/08	R08050251-002	872
16	10/06	R06100076-006	30
	09/07	R07090385-002	81
	11/07	R07110146-010	181
	03/08	R08030315-004	527
	07/08	R08070005-001	1146
18	10/06	R06100076-001	15
	09/07	R07090384-001	45
	11/07	R07110146-004	163
	11/07	R07110146-005	166
	02/08	R08020130-003	408
	05/08	R08050427-001	992
41	10/06	R06100076-003	21
42	10/06	R06100076-002	18
	10/07	R07100002-003	112
	11/07	R07110146-006	169
	02/08	R08020052-004	328
	05/08	R08050427-002	995
49	07/08	R08070035-003	1178
135	03/08	R08030154-001	470
	03/08	R08030154-002	472

Hydro ID	Sample Date	Lab Sample ID	Page
615	04/08	R08040028-001	604
	04/08	R08040028-002	607
	04/08	R08040250-004	667
	05/08	R08050406-005	941
	06/08	R08060452-002	1117
	07/08	R08070244-002	1290
	08/08	R08080332-004	1416
	09/08	R08090314-005	1468
	10/08	R08100295-010	1591
	11/08	R08110211-013	1670
	12/08	R08120255-013	1742
	01/09	R09010301-004	1810
	02/09	R09020293-009	1939
619	09/07	R07090385-001	78
	11/07	R07110146-008	175
	03/08	R08030253-002	489
	06/08	R08060335-001	1041
622	04/08	R08040028-003	610
	04/08	R08040250-003	663
	05/08	R08050406-004	938
	06/08	R08060452-001	1114
	07/08	R08070244-001	1287
	08/08	R08080332-003	1413
	09/08	R08090314-004	1465
	10/08	R08100295-006	1579
	11/08	R08110211-014	1673
	12/08	R08120255-008	1727
	01/09	R09010301-002	1804
	01/09	R09010301-003	1807
02/09	R09020293-008	1935	
628	10/07	R07100002-001	106
	11/07	R07110184-001	200
	02/08	R08020220-005	447
	05/08	R08050419-004	969
631	09/07	R07090384-004	54
	11/07	R07110184-004	209
	02/08	R08020220-003	441
	05/08	R08050251-001	869

Hydro ID	Sample Date	Lab Sample ID	Page
650	10/07	R07100002-010	133
	11/07	R07110146-009	178
	03/08	R08030253-001	486
	05/08	R08050427-004	1001
675	10/07	R07100002-002	109
	11/07	R07110303-007	246
	02/08	R08020052-002	322
	04/08	R08040364-004	767
	04/08	R08040364-005	771
676	10/07	R07100002-005	118
	11/07	R07110303-002	231
	02/08	R08020052-007	343
	04/08	R08040364-001	756
677	10/07	R07100002-004	115
	11/07	R07110303-004	237
	02/08	R08020052-003	325
	04/08	R08040364-003	763
678	10/07	R07100002-007	124
	11/07	R07110303-003	234
	02/08	R08020052-005	331
	02/08	R08020052-006	337
	04/08	R08040364-002	759
679	10/07	R07100002-006	121
	11/07	R07110184-003	206
	02/08	R08020006-001	296
	05/08	R08050229-002	848
680	01/08	R08010296-001	269
	04/08	R08040002-002	571
	04/08	R08040250-007	679
	05/08	R08050199-001	823
	05/08	R08050321-002	899
	06/08	R08060210-001	1016
	07/08	R08070115-002	1222
	08/08	R08080332-002	1410
	09/08	R08090314-001	1456
	09/08	R08090314-002	1459
	10/08	R08100295-002	1567
	10/08	R08100295-003	1570
	11/08	R08110211-005	1646
	12/08	R08120255-007	1724
	01/09	R09010301-011	1831
02/09	R09020293-007	1932	

Hydro ID	Sample Date	Lab Sample ID	Page
681	01/08	R08010296-002	272
	03/08	R08030315-008	539
	04/08	R08040250-006	675
	05/08	R08050143-001	801
	05/08	R08050229-001	845
	06/08	R08060452-003	1120
	07/08	R08070035-005	1184
	07/08	R08070244-009	1311
	08/08	R08080301-004	1380
	09/08	R08090356-002	1495
	10/08	R08100295-009	1588
	11/08	R08110211-012	1667
	12/08	R08120255-002	1709
	01/09	R09010301-007	1819
	02/09	R09020293-011	1947
682	07/08	R08070115-003	1225
684	07/08	R08070115-004	1228
685	07/08	R08070035-007	1190
686	07/08	R08070115-007	1237
687	07/08	R08070035-004	1181
688	04/08	R08040058-001	634
	04/08	R08040287-002	709
	06/08	R08060210-002	1019
	07/08	R08070005-002	1149
	07/08	R08070115-006	1234
	07/08	R08070471-001	1351
	08/08	R08080332-001	1407
	10/08	R08100014-001	1542
	10/08	R08100295-005	1576
	11/08	R08110211-004	1643
	12/08	R08120281-001	1777
	01/09	R09010301-012	1834
	02/09	R09020293-006	1928

Hydro ID	Sample Date	Lab Sample ID	Page
689	03/08	R08030315-007	536
	04/08	R08040250-005	671
	05/08	R08050406-006	944
	06/08	R08060452-004	1123
	07/08	R08070035-006	1187
	07/08	R08070244-008	1308
	08/08	R08080301-005	1383
	09/08	R08090356-001	1492
	10/08	R08100295-008	1585
	11/08	R08110211-011	1664
	12/08	R08120255-003	1712
	01/09	R09010301-008	1822
	02/09	R09020293-010	1943
690	07/08	R08070115-005	1231
691	07/08	R08070035-002	1175
692	07/08	R08070115-001	1219
693	07/08	R08070035-001	1172
694 (Previously 696)	04/08	R08040002-001	565
	04/08	R08040287-007	728
	05/08	R08050321-001	896
	06/08	R08060427-002	1068
	07/08	R08070244-004	1296
	08/08	R08080332-006	1422
	09/08	R08090356-006	1507
	10/08	R08100295-014	1603
	11/08	R08110211-002	1637
	12/08	R08120255-012	1739
	01/09	R09010301-013	1837
02/09	R09020293-015	1962	
695	04/08	R08040002-003	577
	04/08	R08040287-001	705
	05/08	R08050321-003	902
	06/08	R08060427-004	1074
	07/08	R08070244-003	1293
	08/08	R08080332-005	1419
	09/08	R08090356-007	1510
	10/08	R08100295-012	1597
	11/08	R08110211-009	1658
	12/08	R08120255-010	1733
	01/09	R09010301-005	1813
	02/09	R09020293-013	1954

Hydro ID	Sample Date	Lab Sample ID	Page
696 (Previously 694)	03/08	R08030315-001	518
	04/08	R08040250-001	655
	04/08	R08040250-002	659
	05/08	R08050321-004	905
	06/08	R08060427-003	1071
	07/08	R08070244-005	1299
	08/08	R08080332-007	1425
	09/08	R08090356-005	1504
	10/08	R08100295-013	1600
	11/08	R08110211-003	1640
	11/08	R08110211-006	1649
	12/08	R08120255-011	1736
	01/09	R09010301-014	1840
	02/09	R09020293-014	1958
697	03/08	R08030315-006	533
	04/08	R08040287-005	721
	05/08	R08050321-005	908
	06/08	R08060427-005	1077
	07/08	R08070244-006	1302
	07/08	R08070244-007	1305
	08/08	R08080332-008	1428
	09/08	R08090356-004	1501
	10/08	R08100295-011	1594
	11/08	R08110211-010	1661
	12/08	R08120255-009	1730
	01/09	R09010301-006	1816
	02/09	R09020293-012	1950
	698	03/08	R08030315-002
03/08		R08030315-003	524
04/08		R08040287-004	717
05/08		R08050406-001	929
05/08		R08050406-002	932
06/08		R08060427-001	1065
07/08		R08070244-010	1314
08/08		R08080301-003	1377
09/08		R08090314-003	1462
10/08		R08100295-004	1573
11/08		R08110211-008	1655
12/08		R08120255-005	1718
12/08		R08120255-006	1721
01/09		R09010301-009	1825
02/09		R09020293-004	1920
02/09		R09020293-005	1924
703	01/09	R09010302-001	1888
704	09/08	R08090356-003	1498
	02/09	R09020293-002	1912

Hydro ID	Sample Date	Lab Sample ID	Page
705	01/10	R10010180-001	1991
	02/10	R10020266-001	2024
	02/10	R10020266-002	2027
	03/10	R10030205-002	2063
	04/10	R10040303-001	2097
	05/10	R10050253-001	2117
	06/10	R10060444-001	2149
	07/10	R10070459-002	2184
	08/10	R10080398-001	2216
	09/10	R10090519-001	2245
	10/10	R10100355-001	2275
	11/10	R10110179-002	2314
12/10	R10120179-001	2346	
706	01/10	R10010180-002	1995
	03/10	R10030205-001	2059
	03/10	R10030205-003	2067
	04/10	R10040303-002	2100
	05/10	R10050253-002	2121
	06/10	R10060444-002	2152
	07/10	R10070459-001	2181
	07/10	R10070459-003	2187
	08/10	R10080398-002	2219
	09/10	R10090519-002	2248
	10/10	R10100355-002	2278
	11/10	R10110179-001	2311
	11/10	R10110179-003	2317
12/10	R10120179-002	2349	
3026	03/08	R08030315-009	542
	04/08	R08040287-003	713
	05/08	R08050406-003	935
	06/08	R08060427-006	1080
	07/08	R08070220-001	1264
	08/08	R08080301-001	1371
	08/08	R08080301-002	1374
	09/08	R08090356-008	1513
	10/08	R08100295-007	1582
	11/08	R08110211-007	1652
	12/08	R08120255-004	1715
	01/09	R09010301-010	1828
	02/09	R09020293-003	1916
4002	09/07	R07090385-003	84
	09/07	R07090385-004	87
	11/07	R07110184-002	203
	02/08	R08020130-004	411
	05/08	R08050251-003	875

Hydro ID	Sample Date	Lab Sample ID	Page
7002	10/07	R07100002-008	127
	11/07	R07110146-001	154
	02/08	R08020220-001	435
	05/08	R08050419-001	960
BK02	11/07	R07110303-008	249
BLK01	02/08	R08020052-008	346
	03/08	R08030315-005	530
	04/08	R08040028-004	613
	04/08	R08040287-006	725
	04/08	R08040364-006	775
	06/08	R08060427-007	1083
	07/08	R08070244-011	1317
	08/08	R08080332-009	1431
	09/08	R08090356-009	1516
	10/08	R08100295-001	1564
	11/08	R08110211-001	1634
	12/08	R08120255-001	1706
	01/09	R09010301-001	1801
	02/09	R09020293-001	1909



[Signature]
10/31/06

ANALYTICAL SUMMARY REPORT

October 30, 2006

Richard Blubaugh
 Powertech Uranium
 6200 S Troy Circle
 Suite 150
 Centennial, CO 80111

Workorder No.: R06100076

Project Name: Fall River County Water Sampling

Energy Laboratories Inc. received the following 6 samples from Powertech Uranium on 10/4/2006 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R06100076-001	#1 Anderson	10/03/06 10:07	10/04/06	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Conductivity Mercury, Total Hydrocarbons, Total Petroleum Anions by Ion Chromatography Cations by ICP Nitrogen, Ammonia pH Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Dissolved Gross Beta, Dissolved Gross Gamma, Dissolved Radium 226 Radium 228 Radon 222 Solids, Total Dissolved
R06100076-002	#2 Putnam	10/03/06 10:18	10/04/06	Aqueous	Same As Above
R06100076-003	#3 Unknown	10/03/06 10:49	10/04/06	Aqueous	Same As Above
R06100076-004	#4 Kenobbie	10/03/06 11:12	10/04/06	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Conductivity Mercury, Total Hydrocarbons, Total Petroleum Anions by Ion Chromatography Cations by ICP Nitrogen, Ammonia pH Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Dissolved Gross Beta, Dissolved Gross Gamma, Dissolved Radium 226 Radium 228 Solids, Total Dissolved



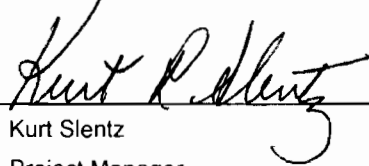
R06100076-005 #5 Spence	10/03/06 11:36	10/04/06	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Conductivity Mercury, Total Hydrocarbons, Total Petroleum Anions by Ion Chromatography Cations by ICP Nitrogen, Ammonia pH Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Dissolved Gross Beta, Dissolved Gross Gamma, Dissolved Radium 226 Radium 228 Radon 222 Solids, Total Dissolved
R06100076-006 #6 Daniels	10/03/06 12:00	10/04/06	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By:


Kurt Slentz
Project Manager



CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by Powertech Uranium on 10/4/2006. These samples were assigned ELI Workorder Number R06100076.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C06100328

Bismuth-214 and Lead-214 activities in samples R06100076-002, R06100076-003, and R06100076-006 are elevated compared to the Radium-226 activity. This mismatch of Bismuth-214 and Lead-214 results (by gamma spectrometry – EPA 901.1) compared to the Radium-226 results (by precipitation – EPA 903.0) are attributable to the elevated Radon-222 levels contained within the sample. The gamma spectrometry was performed relatively close to the date of sampling (the reference date). Radon measurements are performed as close as possible to the sampling date due to the short half-life of the isotope and holding time. To expedite the analytical process and timeliness, gamma spectrometry is performed first (and returned to the container upon completion) so there is enough sample remaining to perform the subsequent measurements (Ra-226, Ra-228, alpha/beta, etc.). If the reverse was done, it is likely that the gamma measurement would not have enough sample volume to meet the required detection limit.



Date: 30-Oct-06

CLIENT: Powertech Uranium
Project: Fall River County Water Sampling
Sample Delivery Group: R06100076

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C06100328

Bismuth-214 and Lead-214 activities in samples R06100076-002, R06100076-003, and R06100076-006 are elevated compared to the Radium-226 activity. This mismatch of Bismuth-214 and Lead-214 results (by gamma spectrometry – EPA 901.1) compared to the Radium-226 results (by precipitation – EPA 903.0) are attributable to the elevated Radon-222 levels contained within the sample. The gamma spectrometry was performed relatively close to the date of sampling (the reference date). Radon measurements are performed as close as possible to the sampling date due to the short half-life of the isotope and holding time. To expedite the analytical process and timeliness, gamma spectrometry is performed first (and returned to the container upon completion) so there is enough sample remaining to perform the subsequent measurements (Ra-226, Ra-228, alpha/beta, etc.). If the reverse was done, it is likely that the gamma measurement would not have enough sample volume to meet the required detection limit.



Energy Laboratories Inc.

Date: 27-Oct-06

CLIENT: Powertech Uranium
Project: Fall River County Water Sampling
Lab Order: R06100076

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date	Date Received
R06100076-001	#1 Anderson	10/3/2006 10:07:00 AM	10/4/2006
R06100076-002	#2 Putnam	10/3/2006 10:18:00 AM	10/4/2006
R06100076-003	#3 Unknown	10/3/2006 10:49:00 AM	10/4/2006
R06100076-004	#4 Kenobbie	10/3/2006 11:12:00 AM	10/4/2006
R06100076-005	#5 Spence	10/3/2006 11:36:00 AM	10/4/2006
R06100076-006	#6 Daniels	10/3/2006 12:00:00 PM	10/4/2006



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
Project: Fall River County Water Sampling
Lab ID: R06100076-001
Client Sample ID: #1 Anderson

Report Date: 10/27/06
Collection Date: 10/03/06 10:07
Date Received: 10/04/06
Matrix: AQUEOUS

GW18

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
PHYSICAL PARAMETERS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	10/06/06 11:45/JMH
Bicarbonate as HCO3	220	mg/L		5		1	A2320 B	10/06/06 11:45/JMH
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/06/06 11:45/JMH
Conductivity @ 25 C	1430	umhos/cm		5		1	A2510 B	10/07/06 14:25/AH
pH	8.11	s.u.		0.01		1	A4500-H B	10/07/06 14:17/AH
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C	10/05/06 14:18/AH
INORGANIC PARAMETERS								
Calcium	34	mg/L		1		1	E200.7	10/19/06 14:14/SN
Chloride	14	mg/L		0.50		1	E300.0	10/05/06 19:13/JMH
Fluoride	0.38	mg/L		0.10		1	E300.0	10/05/06 19:13/JMH
Magnesium	12	mg/L		1		1	E200.7	10/19/06 14:14/SN
Nitrogen, Nitrate as N	ND	mg/L		0.10		1	E300.0	10/05/06 19:13/JMH
Potassium	7	mg/L		1		1	E200.7	10/19/06 14:14/SN
Sodium	260	mg/L		1		1	E200.7	10/19/06 14:14/SN
Sulfate	481	mg/L	D	7.2		10	E300.0	10/06/06 21:29/JMH
Silicon as SiO2	7	mg/L		2		1	E200.7	10/19/06 14:14/SN
NUTRIENT PARAMETERS								
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/05/06 16:40/JMH
RADIONUCLIDES - DISSOLVED								
Actinium 228	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Americium 241	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Bismuth 212	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Iodine 125	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Iodine 131	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Manganese 54	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 223	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 226	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Thallium 208	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Barium 133	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Bismuth 214	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Cesium 134	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Cesium 137	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Cobalt 60	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Gross Alpha	37	pCi/L		1.0		1	E900.0	10/20/06 10:00/eli-c
Gross Alpha precision (±)	1.0	pCi/L				1	E900.0	10/20/06 10:00/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-001
 Client Sample ID: #1 Anderson

Report Date: 10/27/06
 Collection Date: 10/03/06 10:07
 Date Received: 10/04/06
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - DISSOLVED								
Gross Beta	14	pCi/L		2.0		1	E900.0	10/25/06 05:29/eli-c
Gross Beta precision (±)	1.6	pCi/L				1	E900.0	10/25/06 05:29/eli-c
Lead 212	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Lead 214	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Potassium 40	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 224	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 228	2.3	pCi/L		1.0		1	RA-05	10/17/06 16:18/eli-c
Radium 228	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 228 precision (±)	1.2	pCi/L				1	RA-05	10/17/06 16:18/eli-c
Thorium 228	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Thorium 234	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Uranium 238	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Zinc 65	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 226	5.8	pCi/L		0.2		1	E903.0	10/23/06 11:25/eli-c
Radium 226 precision (±)	1.2	pCi/L				1	E903.0	10/23/06 11:25/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	762	pCi/L		100		1	D5072-92	10/06/06 17:49/eli-c
Radon 222 precision (±)	69.3	pCi/L				1	D5072-92	10/06/06 17:49/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	10/17/06 12:00/eli-c
DISSOLVED METALS ANALYSES								
Aluminum	ND	mg/L		0.10		1	E200.8	10/16/06 23:09/eli-c
Arsenic	ND	mg/L		0.01		1	E200.8	10/16/06 23:09/eli-c
Barium	ND	mg/L		0.10		1	E200.8	10/16/06 23:09/eli-c
Boron	ND	mg/L		0.10		1	E200.7	10/20/06 15:42/eli-c
Cadmium	ND	mg/L		0.001		1	E200.8	10/16/06 23:09/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/16/06 23:09/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/17/06 22:10/eli-c
Iron	ND	mg/L		0.03		1	E200.7	10/20/06 15:42/eli-c
Lead	ND	mg/L		0.01		1	E200.8	10/16/06 23:09/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	10/16/06 23:09/eli-c
Molybdenum	ND	mg/L		0.005		1	E200.8	10/16/06 23:09/eli-c
Nickel	0.03	mg/L		0.01		1	E200.8	10/16/06 23:09/eli-c
Selenium	ND	mg/L		0.005		1	E200.8	10/16/06 23:09/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-001
 Client Sample ID: #1 Anderson

Report Date: 10/27/06
 Collection Date: 10/03/06 10:07
 Date Received: 10/04/06
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DISSOLVED METALS ANALYSES								
Silver	ND	mg/L		0.005		1	E200.8	10/16/06 23:09/eli-c
Uranium	0.007	mg/L		0.001		1	E200.8	10/16/06 23:09/eli-c
Vanadium	ND	mg/L		0.10		1	E200.8	10/16/06 23:09/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/16/06 23:09/eli-c
ORGANIC CHARACTERISTICS								
Non-polar Materials (SGT-HEM)	ND	mg/L		5.0		1	SW1664A	10/19/06 13:18/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-002
 Client Sample ID: #2 Putnam

Report Date: 10/27/06
 Collection Date: 10/03/06 10:18
 Date Received: 10/04/06
 Matrix: AQUEOUS

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Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
PHYSICAL PARAMETERS									
Alkalinity, Total as CaCO3	180	mg/L		5			1	A2320 B	10/06/06 11:52/JMH
Bicarbonate as HCO3	220	mg/L		5			1	A2320 B	10/06/06 11:52/JMH
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/06/06 11:52/JMH
Conductivity @ 25 C	1410	umhos/cm		5			1	A2510 B	10/07/06 14:26/AH
pH	8.01	s.u.		0.01			1	A4500-H B	10/07/06 14:17/AH
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5			1	A2540 C	10/05/06 14:19/AH
INORGANIC PARAMETERS									
Calcium	35	mg/L		1			1	E200.7	10/19/06 14:18/SN
Chloride	14	mg/L		0.50			1	E300.0	10/05/06 19:59/JMH
Fluoride	0.39	mg/L		0.10			1	E300.0	10/05/06 19:59/JMH
Magnesium	12	mg/L		1			1	E200.7	10/19/06 14:18/SN
Nitrogen, Nitrate as N	ND	mg/L		0.10			1	E300.0	10/05/06 19:59/JMH
Potassium	7	mg/L		1			1	E200.7	10/19/06 14:18/SN
Sodium	250	mg/L		1			1	E200.7	10/19/06 14:18/SN
Sulfate	473	mg/L	D	7.2			10	E300.0	10/06/06 22:15/JMH
Silicon as SiO2	7	mg/L		2			1	E200.7	10/19/06 14:18/SN
NUTRIENT PARAMETERS									
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	10/05/06 16:43/JMH
RADIONUCLIDES - DISSOLVED									
Actinium 228	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Americium 241	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Bismuth 212	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Iodine 125	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Iodine 131	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Manganese 54	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 223	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Thallium 208	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Barium 133	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Bismuth 214	1600	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Bismuth 214 precision (±)	64	pCi/L					1	E901.1	10/11/06 14:50/eli-c
Cesium 134	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Cesium 137	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Cobalt 60	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Gross Alpha	560	pCi/L		1.0			1	E900.0	10/20/06 10:00/eli-c
Gross Alpha precision (±)	3.2	pCi/L					1	E900.0	10/20/06 10:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-002
 Client Sample ID: #2 Putnam

Report Date: 10/27/06
 Collection Date: 10/03/06 10:18
 Date Received: 10/04/06
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - DISSOLVED									
Gross Beta	110	pCi/L		2.0			1	E900.0	10/25/06 05:29/eli-c
Gross Beta precision (±)	2.7	pCi/L					1	E900.0	10/25/06 05:29/eli-c
Lead 212	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Lead 214	1800	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Lead 214 precision (±)	70	pCi/L					1	E901.1	10/11/06 14:50/eli-c
Potassium 40	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 224	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 228	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 228	ND	pCi/L		1.0			1	RA-05	10/17/06 16:18/eli-c
Thorium 228	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Thorium 234	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Uranium 238	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Zinc 65	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 226	87.6	pCi/L		0.2			1	E903.0	10/23/06 11:25/eli-c
Radium 226 precision (±)	3.1	pCi/L					1	E903.0	10/23/06 11:25/eli-c
Radium 226	1600	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 226 precision (±)	64	pCi/L					1	E901.1	10/11/06 14:50/eli-c
Gross Gamma	3400	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Gross Gamma precision (±)	130	pCi/L					1	E901.1	10/11/06 14:50/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	197000	pCi/L		100			1	D5072-92	10/06/06 17:49/eli-c
Radon 222 precision (±)	581	pCi/L					1	D5072-92	10/06/06 17:49/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.001			1	E245.1	10/17/06 12:02/eli-c
DISSOLVED METALS ANALYSES									
Aluminum	ND	mg/L		0.10			1	E200.8	10/16/06 23:16/eli-c
Arsenic	ND	mg/L		0.01			1	E200.8	10/16/06 23:16/eli-c
Barium	ND	mg/L		0.10			1	E200.8	10/16/06 23:16/eli-c
Boron	ND	mg/L		0.10			1	E200.7	10/20/06 16:05/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	10/16/06 23:16/eli-c
Chromium	ND	mg/L		0.01			1	E200.8	10/16/06 23:16/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/17/06 23:10/eli-c
Iron	ND	mg/L		0.03			1	E200.7	10/20/06 16:05/eli-c
Lead	ND	mg/L		0.01			1	E200.8	10/16/06 23:16/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	10/16/06 23:16/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-002
 Client Sample ID: #2 Putnam

Report Date: 10/27/06
 Collection Date: 10/03/06 10:18
 Date Received: 10/04/06
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
DISSOLVED METALS ANALYSES								
Molybdenum	ND	mg/L		0.005		1	E200.8	10/16/06 23:16/eli-c
Nickel	0.02	mg/L		0.01		1	E200.8	10/16/06 23:16/eli-c
Selenium	ND	mg/L		0.005		1	E200.8	10/16/06 23:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/16/06 23:16/eli-c
Uranium	0.04	mg/L		0.001		1	E200.8	10/16/06 23:16/eli-c
Vanadium	ND	mg/L		0.10		1	E200.8	10/16/06 23:16/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/16/06 23:16/eli-c
ORGANIC CHARACTERISTICS								
Non-polar Materials (SGT-HEM)	ND	mg/L		5.0		1	SW1664A	10/19/06 13:19/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
Project: Fall River County Water Sampling
Lab ID: R06100076-003
Client Sample ID: #3 Unknown

Report Date: 10/27/06
Collection Date: 10/03/06 10:49
Date Received: 10/04/06
Matrix: AQUEOUS

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Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
PHYSICAL PARAMETERS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	10/06/06 11:58/JMH
Bicarbonate as HCO3	220	mg/L		5		1	A2320 B	10/06/06 11:58/JMH
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/06/06 11:58/JMH
Conductivity @ 25 C	1380	umhos/cm		5		1	A2510 B	10/07/06 14:27/AH
pH	7.92	s.u.		0.01		1	A4500-H B	10/07/06 14:18/AH
Solids, Total Dissolved TDS @ 180 C	910	mg/L		5		1	A2540 C	10/05/06 14:20/AH
INORGANIC PARAMETERS								
Calcium	41	mg/L		1		1	E200.7	10/19/06 14:21/SN
Chloride	14	mg/L		0.50		1	E300.0	10/05/06 20:14/JMH
Fluoride	0.37	mg/L		0.10		1	E300.0	10/05/06 20:14/JMH
Magnesium	16	mg/L		1		1	E200.7	10/19/06 14:21/SN
Nitrogen, Nitrate as N	ND	mg/L		0.10		1	E300.0	10/05/06 20:14/JMH
Potassium	8	mg/L		1		1	E200.7	10/19/06 14:21/SN
Sodium	230	mg/L		1		1	E200.7	10/19/06 14:21/SN
Sulfate	458	mg/L	D	7.2		10	E300.0	10/06/06 23:01/JMH
Silicon as SiO2	7	mg/L		2		1	E200.7	10/19/06 14:21/SN
NUTRIENT PARAMETERS								
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/05/06 16:44/JMH
RADIONUCLIDES - DISSOLVED								
Actinium 228	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Americium 241	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Bismuth 212	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Iodine 125	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Iodine 131	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Manganese 54	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 223	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Thallium 208	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Barium 133	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Bismuth 214	210	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Bismuth 214 precision (±)	48	pCi/L				1	E901.1	10/11/06 14:50/eli-c
Cesium 134	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Cesium 137	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Cobalt 60	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Gross Alpha	88	pCi/L		1.0		1	E900.0	10/20/06 10:00/eli-c
Gross Alpha precision (±)	1.4	pCi/L				1	E900.0	10/20/06 10:00/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-003
 Client Sample ID: #3 Unknown

Report Date: 10/27/06
 Collection Date: 10/03/06 10:49
 Date Received: 10/04/06
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - DISSOLVED									
Gross Beta	32	pCi/L		2.0			1	E900.0	10/25/06 05:29/eli-c
Gross Beta precision (±)	1.8	pCi/L					1	E900.0	10/25/06 05:29/eli-c
Lead 212	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Lead 214	190	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Lead 214 precision (±)	37	pCi/L					1	E901.1	10/11/06 14:50/eli-c
Potassium 40	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 224	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 228	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 228	ND	pCi/L		1.0			1	RA-05	10/17/06 16:18/eli-c
Thorium 228	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Thorium 234	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Uranium 238	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Zinc 65	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 226	16.5	pCi/L		0.2			1	E903.0	10/23/06 11:25/eli-c
Radium 226 precision (±)	1.4	pCi/L					1	E903.0	10/23/06 11:25/eli-c
Radium 226	210	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 226 precision (±)	48	pCi/L					1	E901.1	10/11/06 14:50/eli-c
Gross Gamma	410	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Gross Gamma precision (±)	85	pCi/L					1	E901.1	10/11/06 14:50/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	9670	pCi/L		100			1	D5072-92	10/06/06 17:49/eli-c
Radon 222 precision (±)	141	pCi/L					1	D5072-92	10/06/06 17:49/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.001			1	E245.1	10/17/06 12:04/eli-c
DISSOLVED METALS ANALYSES									
Aluminum	ND	mg/L		0.10			1	E200.8	10/16/06 23:24/eli-c
Arsenic	ND	mg/L		0.01			1	E200.8	10/16/06 23:24/eli-c
Barium	ND	mg/L		0.10			1	E200.8	10/16/06 23:24/eli-c
Boron	ND	mg/L		0.10			1	E200.7	10/20/06 16:09/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	10/16/06 23:24/eli-c
Chromium	ND	mg/L		0.01			1	E200.8	10/16/06 23:24/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/17/06 23:18/eli-c
Iron	ND	mg/L		0.03			1	E200.7	10/20/06 16:09/eli-c
Lead	ND	mg/L		0.01			1	E200.8	10/16/06 23:24/eli-c
Manganese	0.10	mg/L		0.01			1	E200.8	10/16/06 23:24/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-003
 Client Sample ID: #3 Unknown

Report Date: 10/27/06
 Collection Date: 10/03/06 10:49
 Date Received: 10/04/06
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DISSOLVED METALS ANALYSES									
Molybdenum	ND	mg/L		0.005			1	E200.8	10/16/06 23:24/eli-c
Nickel	0.02	mg/L		0.01			1	E200.8	10/16/06 23:24/eli-c
Selenium	ND	mg/L		0.005			1	E200.8	10/16/06 23:24/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/16/06 23:24/eli-c
Uranium	0.007	mg/L		0.001			1	E200.8	10/16/06 23:24/eli-c
Vanadium	ND	mg/L		0.10			1	E200.8	10/16/06 23:24/eli-c
Zinc	0.01	mg/L		0.01			1	E200.8	10/16/06 23:24/eli-c
ORGANIC CHARACTERISTICS									
Non-polar Materials (SGT-HEM)	ND	mg/L		5.0			1	SW1664A	10/19/06 13:19/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-004
 Client Sample ID: #4 Kenobbie

Report Date: 10/27/06
 Collection Date: 10/03/06 11:12
 Date Received: 10/04/06
 Matrix: AQUEOUS

GW7

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
PHYSICAL PARAMETERS								
Alkalinity, Total as CaCO3	170	mg/L		5		1	A2320 B	10/06/06 12:01/JMH
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B	10/06/06 12:01/JMH
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/06/06 12:01/JMH
Conductivity @ 25 C	1530	umhos/cm		5		1	A2510 B	10/07/06 14:29/AH
pH	8.08	s.u.		0.01		1	A4500-H B	10/07/06 14:19/AH
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C	10/05/06 14:21/AH
INORGANIC PARAMETERS								
Calcium	37	mg/L			1	1	E200.7	10/19/06 14:25/SN
Chloride	13	mg/L		0.50		1	E300.0	10/05/06 20:30/JMH
Fluoride	0.37	mg/L		0.10		1	E300.0	10/05/06 20:30/JMH
Magnesium	16	mg/L			1	1	E200.7	10/19/06 14:25/SN
Nitrogen, Nitrate as N	ND	mg/L		0.10		1	E300.0	10/05/06 20:30/JMH
Potassium	10	mg/L			1	1	E200.7	10/19/06 14:25/SN
Sodium	270	mg/L			1	1	E200.7	10/19/06 14:25/SN
Sulfate	546	mg/L	D	7.2		10	E300.0	10/06/06 23:16/JMH
Silicon as SiO2	7	mg/L			2	1	E200.7	10/19/06 14:25/SN
NUTRIENT PARAMETERS								
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	10/05/06 16:46/JMH
RADIONUCLIDES - DISSOLVED								
Actinium 228	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Americium 241	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Bismuth 212	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Iodine 125	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Iodine 131	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Manganese 54	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 223	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Thallium 208	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Barium 133	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Bismuth 214	300	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Bismuth 214 precision (±)	18	pCi/L				1	E901.1	10/11/06 14:50/eli-c
Cesium 134	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Cesium 137	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Cobalt 60	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Gross Alpha	17	pCi/L		1.0		1	E900.0	10/20/06 10:00/eli-c
Gross Alpha precision (±)	0.80	pCi/L				1	E900.0	10/20/06 10:00/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-004
 Client Sample ID: #4 Kenobbie

Report Date: 10/27/06
 Collection Date: 10/03/06 11:12
 Date Received: 10/04/06
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - DISSOLVED									
Gross Beta	16	pCi/L		2.0			1	E900.0	10/25/06 05:29/eli-c
Gross Beta precision (±)	1.6	pCi/L					1	E900.0	10/25/06 05:29/eli-c
Gross Gamma	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Lead 212	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Lead 214	350	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Lead 214 precision (±)	30	pCi/L					1	E901.1	10/11/06 14:50/eli-c
Potassium 40	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 224	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 228	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 228	ND	pCi/L		1.0			1	RA-05	10/17/06 16:18/eli-c
Radium 228 precision (±)	ND	pCi/L					1	E901.1	10/11/06 14:50/eli-c
Thorium 228	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Thorium 234	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Uranium 238	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Zinc 65	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 226	2.6	pCi/L		0.2			1	E903.0	10/23/06 11:25/eli-c
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	10/23/06 11:25/eli-c
Radium 226	300	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 226 precision (±)	18	pCi/L					1	E901.1	10/11/06 14:50/eli-c
TOTAL METALS ANALYSES									
Mercury	ND	mg/L		0.001			1	E245.1	10/17/06 12:07/eli-cz
DISSOLVED METALS ANALYSES									
Aluminum	ND	mg/L		0.10			1	E200.8	10/17/06 01:54/eli-c
Arsenic	ND	mg/L		0.01			1	E200.8	10/17/06 01:54/eli-c
Barium	ND	mg/L		0.10			1	E200.8	10/17/06 01:54/eli-c
Boron	ND	mg/L		0.10			1	E200.7	10/20/06 16:12/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	10/17/06 01:54/eli-c
Chromium	ND	mg/L		0.01			1	E200.8	10/17/06 01:54/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/17/06 01:54/eli-c
Iron	ND	mg/L		0.03			1	E200.7	10/20/06 16:12/eli-c
Lead	ND	mg/L		0.01			1	E200.8	10/17/06 01:54/eli-c
Manganese	0.03	mg/L		0.01			1	E200.8	10/17/06 01:54/eli-c
Molybdenum	ND	mg/L		0.005			1	E200.8	10/17/06 01:54/eli-c
Nickel	ND	mg/L		0.01			1	E200.8	10/17/06 01:54/eli-c
Selenium	ND	mg/L		0.005			1	E200.8	10/17/06 01:54/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/17/06 01:54/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-004
 Client Sample ID: #4 Kenobbie

Report Date: 10/27/06
 Collection Date: 10/03/06 11:12
 Date Received: 10/04/06
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
DISSOLVED METALS ANALYSES								
Uranium	ND	mg/L		0.001		1	E200.8	10/17/06 01:54/eli-c
Vanadium	ND	mg/L		0.10		1	E200.8	10/17/06 01:54/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/17/06 01:54/eli-c
ORGANIC CHARACTERISTICS								
Non-polar Materials (SGT-HEM)	ND	mg/L		5.0		1	SW1664A	10/19/06 13:19/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-005
 Client Sample ID: #5 Spence

Report Date: 10/27/06
 Collection Date: 10/03/06 11:36
 Date Received: 10/04/06
 Matrix: AQUEOUS

GW13

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
PHYSICAL PARAMETERS								
Alkalinity, Total as CaCO ₃	170	mg/L		5		1	A2320 B	10/06/06 12:13/JMH
Bicarbonate as HCO ₃	200	mg/L		5		1	A2320 B	10/06/06 12:13/JMH
Carbonate as CO ₃	ND	mg/L		5		1	A2320 B	10/06/06 12:13/JMH
Conductivity @ 25 C	1290	umhos/cm		5		1	A2510 B	10/07/06 14:30/AH
pH	7.93	s.u.		0.01		1	A4500-H B	10/07/06 14:44/AH
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5		1	A2540 C	10/05/06 14:22/AH
INORGANIC PARAMETERS								
Calcium	61	mg/L		1		1	E200.7	10/19/06 14:29/SN
Chloride	11	mg/L		0.50		1	E300.0	10/05/06 20:45/JMH
Fluoride	0.43	mg/L		0.10		1	E300.0	10/05/06 20:45/JMH
Magnesium	22	mg/L		1		1	E200.7	10/19/06 14:29/SN
Nitrogen, Nitrate as N	ND	mg/L		0.10		1	E300.0	10/05/06 20:45/JMH
Potassium	9	mg/L		1		1	E200.7	10/19/06 14:29/SN
Sodium	180	mg/L		1		1	E200.7	10/19/06 14:29/SN
Sulfate	460	mg/L	D	7.2		10	E300.0	10/06/06 23:32/JMH
Silicon as SiO ₂	7	mg/L		2		1	E200.7	10/19/06 14:29/SN
NUTRIENT PARAMETERS								
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/05/06 16:47/JMH
RADIONUCLIDES - DISSOLVED								
Actinium 228	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Americium 241	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Bismuth 212	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Iodine 125	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Iodine 131	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Manganese 54	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 223	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 226	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Thallium 208	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Barium 133	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Bismuth 214	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Cesium 134	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Cesium 137	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Cobalt 60	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Gross Alpha	12	pCi/L		1.0		1	E900.0	10/20/06 10:00/eli-c
Gross Alpha precision (±)	0.70	pCi/L				1	E900.0	10/20/06 10:00/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-005
 Client Sample ID: #5 Spence

Report Date: 10/27/06
 Collection Date: 10/03/06 11:36
 Date Received: 10/04/06
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - DISSOLVED								
Gross Beta	17	pCi/L		2.0		1	E900.0	10/25/06 05:29/eli-c
Gross Beta precision (±)	1.7	pCi/L				1	E900.0	10/25/06 05:29/eli-c
Lead 212	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Lead 214	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Potassium 40	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 224	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 228	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 228	ND	pCi/L		1.0		1	RA-05	10/17/06 16:18/eli-c
Thorium 228	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Thorium 234	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Uranium 238	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Zinc 65	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 226	2.1	pCi/L		0.2		1	E903.0	10/23/06 11:25/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	10/23/06 11:25/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	10/11/06 14:50/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	335	pCi/L		100		1	D5072-92	10/06/06 17:49/eli-c
Radon 222 precision (±)	63.2	pCi/L				1	D5072-92	10/06/06 17:49/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	10/17/06 12:09/eli-cz
DISSOLVED METALS ANALYSES								
Aluminum	ND	mg/L		0.10		1	E200.8	10/17/06 02:02/eli-c
Arsenic	ND	mg/L		0.01		1	E200.8	10/17/06 02:02/eli-c
Barium	ND	mg/L		0.10		1	E200.8	10/17/06 02:02/eli-c
Boron	ND	mg/L		0.10		1	E200.7	10/20/06 16:15/eli-c
Cadmium	ND	mg/L		0.001		1	E200.8	10/17/06 02:02/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/17/06 02:02/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/17/06 02:02/eli-c
Iron	ND	mg/L		0.03		1	E200.7	10/20/06 16:15/eli-c
Lead	ND	mg/L		0.01		1	E200.8	10/17/06 02:02/eli-c
Manganese	0.11	mg/L		0.01		1	E200.8	10/17/06 02:02/eli-c
Molybdenum	ND	mg/L		0.005		1	E200.8	10/17/06 02:02/eli-c
Nickel	ND	mg/L		0.01		1	E200.8	10/17/06 02:02/eli-c
Selenium	ND	mg/L		0.005		1	E200.8	10/17/06 02:02/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
Project: Fall River County Water Sampling
Lab ID: R06100076-005
Client Sample ID: #5 Spence

Report Date: 10/27/06
Collection Date: 10/03/06 11:36
Date Received: 10/04/06
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DISSOLVED METALS ANALYSES								
Silver	ND	mg/L		0.005		1	E200.8	10/17/06 02:02/eli-c
Uranium	ND	mg/L		0.001		1	E200.8	10/17/06 02:02/eli-c
Vanadium	ND	mg/L		0.10		1	E200.8	10/17/06 02:02/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/17/06 02:02/eli-c
ORGANIC CHARACTERISTICS								
Non-polar Materials (SGT-HEM)	ND	mg/L		5.0		1	SW1664A	10/19/06 13:19/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-006
 Client Sample ID: #6 Daniels

Report Date: 10/27/06
 Collection Date: 10/03/06 12:00
 Date Received: 10/04/06
 Matrix: AQUEOUS

GW 16

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
PHYSICAL PARAMETERS									
Alkalinity, Total as CaCO3	160	mg/L		5			1	A2320 B	10/06/06 12:24/JMH
Bicarbonate as HCO3	200	mg/L		5			1	A2320 B	10/06/06 12:24/JMH
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/06/06 12:24/JMH
Conductivity @ 25 C	1260	umhos/cm		5			1	A2510 B	10/07/06 14:31/AH
pH	7.44	s.u.		0.01			1	A4500-H B	10/07/06 14:45/AH
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5			1	A2540 C	10/05/06 14:23/AH
INORGANIC PARAMETERS									
Calcium	140	mg/L		1			1	E200.7	10/19/06 14:32/SN
Chloride	6.2	mg/L		0.50			1	E300.0	10/05/06 21:01/JMH
Fluoride	0.37	mg/L		0.10			1	E300.0	10/05/06 21:01/JMH
Magnesium	55	mg/L		1			1	E200.7	10/19/06 14:32/SN
Nitrogen, Nitrate as N	ND	mg/L		0.10			1	E300.0	10/05/06 21:01/JMH
Potassium	16	mg/L		1			1	E200.7	10/19/06 14:32/SN
Sodium	53	mg/L		1			1	E200.7	10/19/06 14:32/SN
Sulfate	522	mg/L	D	7.2			10	E300.0	10/06/06 23:47/JMH
Silicon as SiO2	7	mg/L		2			1	E200.7	10/19/06 14:32/SN
NUTRIENT PARAMETERS									
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	10/05/06 16:50/JMH
RADIONUCLIDES - DISSOLVED									
Actinium 228	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Americium 241	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Bismuth 212	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Iodine 125	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Iodine 131	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Manganese 54	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Radium 223	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Thallium 208	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Barium 133	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Bismuth 214	770	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Bismuth 214 precision (±)	35	pCi/L					1	E901.1	10/11/06 14:50/eli-c
Cesium 134	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Cesium 137	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Cobalt 60	ND	pCi/L		20			1	E901.1	10/11/06 14:50/eli-c
Gross Alpha	110	pCi/L		1.0			1	E900.0	10/20/06 10:00/eli-c
Gross Alpha precision (±)	1.5	pCi/L					1	E900.0	10/20/06 10:00/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
 Project: Fall River County Water Sampling
 Lab ID: R06100076-006
 Client Sample ID: #6 Daniels

Report Date: 10/27/06
 Collection Date: 10/03/06 12:00
 Date Received: 10/04/06
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - DISSOLVED								
Gross Beta	50	pCi/L		2.0		1	E900.0	10/25/06 05:29/eli-c
Gross Beta precision (±)	2.0	pCi/L				1	E900.0	10/25/06 05:29/eli-c
Lead 212	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Lead 214	810	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Lead 214 precision (±)	35	pCi/L				1	E901.1	10/11/06 14:50/eli-c
Potassium 40	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 224	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 228	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 228	ND	pCi/L		1.0		1	RA-05	10/17/06 16:18/eli-c
Thorium 228	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Thorium 234	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Uranium 238	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Zinc 65	ND	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 226	33.6	pCi/L		0.2		1	E903.0	10/23/06 11:25/eli-c
Radium 226 precision (±)	2.5	pCi/L				1	E903.0	10/23/06 11:25/eli-c
Radium 226	770	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Radium 226 precision (±)	35	pCi/L				1	E901.1	10/11/06 14:50/eli-c
Gross Gamma	1600	pCi/L		20		1	E901.1	10/11/06 14:50/eli-c
Gross Gamma precision (±)	70	pCi/L				1	E901.1	10/11/06 14:50/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	39000	pCi/L		100		1	D5072-92	10/06/06 17:49/eli-c
Radon 222 precision (±)	252	pCi/L				1	D5072-92	10/06/06 17:49/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	10/17/06 12:11/eli-ca
DISSOLVED METALS ANALYSES								
Aluminum	ND	mg/L		0.10		1	E200.8	10/17/06 02:09/eli-c
Arsenic	ND	mg/L		0.01		1	E200.8	10/17/06 02:09/eli-c
Barium	ND	mg/L		0.10		1	E200.8	10/17/06 02:09/eli-c
Boron	0.12	mg/L		0.10		1	E200.7	10/20/06 16:19/eli-c
Cadmium	ND	mg/L		0.001		1	E200.8	10/17/06 02:09/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/17/06 02:09/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/17/06 02:09/eli-c
Iron	ND	mg/L		0.03		1	E200.7	10/20/06 16:19/eli-c
Lead	ND	mg/L		0.01		1	E200.8	10/17/06 02:09/eli-c
Manganese	0.19	mg/L		0.01		1	E200.8	10/17/06 02:09/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech Uranium
Project: Fall River County Water Sampling
Lab ID: R06100076-006
Client Sample ID: #6 Daniels

Report Date: 10/27/06
Collection Date: 10/03/06 12:00
Date Received: 10/04/06
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DISSOLVED METALS ANALYSES								
Molybdenum	ND	mg/L		0.005		1	E200.8	10/17/06 02:09/eli-c
Nickel	ND	mg/L		0.01		1	E200.8	10/17/06 02:09/eli-c
Selenium	ND	mg/L		0.005		1	E200.8	10/17/06 02:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/17/06 02:09/eli-c
Uranium	0.002	mg/L		0.001		1	E200.8	10/17/06 02:09/eli-c
Vanadium	ND	mg/L		0.10		1	E200.8	10/17/06 02:09/eli-c
Zinc	0.04	mg/L		0.01		1	E200.8	10/17/06 02:09/eli-c
ORGANIC CHARACTERISTICS								
Non-polar Materials (SGT-HEM)	ND	mg/L		5.0		1	SW1664A	10/19/06 13:20/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech Uranium
 Project: Fall River County Water Sampling

Report Date: 10/27/06
 Work Order: R06100076

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 061006A-ALK-W		
Sample ID: LCS2_061006A	Laboratory Control Sample								Run: PH_COND1-R_061006A 10/06/06 11:05
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: MBLK2_061006A	Method Blank								Run: PH_COND1-R_061006A 10/06/06 11:08
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: R06100061-001ADUP	Sample Duplicate								Run: PH_COND1-R_061006A 10/06/06 11:23
Alkalinity, Total as CaCO3	230	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	280	mg/L	5.0						
Carbonate as CO3	ND	mg/L	5.0						
Sample ID: R06100076-001AMS	Sample Matrix Spike								Run: PH_COND1-R_061006A 10/06/06 11:48
Alkalinity, Total as CaCO3	280	mg/L	5.0	96	80	120			
Sample ID: R06100076-005ADUP	Sample Duplicate								Run: PH_COND1-R_061006A 10/06/06 12:19
Alkalinity, Total as CaCO3	170	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	200	mg/L	5.0						
Carbonate as CO3	ND	mg/L	5.0						
Sample ID: R06100076-006AMS	Sample Matrix Spike								Run: PH_COND1-R_061006A 10/06/06 12:27
Alkalinity, Total as CaCO3	270	mg/L	5.0	108	80	120			
Method: A2510 B							Batch: 061007_1_COND-PROBE-W		
Sample ID: LCS1-1_061007	Laboratory Control Sample								Run: PH_COND2-R_061007A 10/07/06 14:21
Conductivity @ 25 C	151	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_061007	Laboratory Control Sample								Run: PH_COND2-R_061007A 10/07/06 14:22
Conductivity @ 25 C	5010	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_061007	Laboratory Control Sample								Run: PH_COND2-R_061007A 10/07/06 14:22
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_061007	Method Blank								Run: PH_COND2-R_061007A 10/07/06 14:22
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R06100075-001ADUP	Sample Duplicate								Run: PH_COND2-R_061007A 10/07/06 14:24
Conductivity @ 25 C	12200	umhos/cm	5.0				0.8	10	
Sample ID: R06100098-001ADUP	Sample Duplicate								Run: PH_COND2-R_061007A 10/07/06 14:35
Conductivity @ 25 C	861	umhos/cm	5.0				0.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech Uranium
Project: Fall River County Water Sampling

Report Date: 10/27/06
Work Order: R06100076

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 061005A-SLDS-TDS-W		
Sample ID: LCS1_061005A	Laboratory Control Sample				Run: BAL-4-R_061005A				10/05/06 14:10
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	100	90	110			
Sample ID: MBLK1_061005A	Method Blank				Run: BAL-4-R_061005A				10/05/06 14:10
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R06100086-001AMS	Sample Matrix Spike				Run: BAL-4-R_061005A				10/05/06 15:12
Solids, Total Dissolved TDS @ 180 C	860	mg/L	5.0	93	80	120			
Sample ID: R06100086-001AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_061005A				10/05/06 14:24
Solids, Total Dissolved TDS @ 180 C	880	mg/L	5.0	102	80	120	2.1	10	
Method: A4500-H B							Batch: 061007_1_PH-W		
Sample ID: LCS_pH-1_061007	Laboratory Control Sample				Run: PH_COND2-R_061007A				10/07/06 14:09
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R06100075-001ADUP	Sample Duplicate				Run: PH_COND2-R_061007A				10/07/06 14:14
pH	6.82	s.u.	0.010				0.1	1.25	
Sample ID: R06100098-001ADUP	Sample Duplicate				Run: PH_COND2-R_061007A				10/07/06 14:47
pH	7.23	s.u.	0.010				0.0	1.25	
Method: A4500-NH3 G							Batch: A2006-10-05_2_NH3_01		
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_061005A				10/05/06 15:23
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_061005A				10/05/06 15:24
Nitrogen, Ammonia as N	0.24	mg/L	0.10	95	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_061005A				10/05/06 15:25
Nitrogen, Ammonia as N	0.24	mg/L	0.10	97	90	110			
Sample ID: R06100076-001EMS	Sample Matrix Spike				Run: TECHAA2-R_061005A				10/05/06 16:41
Nitrogen, Ammonia as N	0.47	mg/L	0.10	108	80	120			
Sample ID: R06100076-001EMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_061005A				10/05/06 16:42
Nitrogen, Ammonia as N	0.47	mg/L	0.10	108	80	120	0.2	10	
Sample ID: R06100098-001BMS	Sample Matrix Spike				Run: TECHAA2-R_061005A				10/05/06 16:54
Nitrogen, Ammonia as N	0.25	mg/L	0.10	103	80	120			
Sample ID: R06100098-001BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_061005A				10/05/06 16:55
Nitrogen, Ammonia as N	0.25	mg/L	0.10	104	80	120	1.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech Uranium
 Project: Fall River County Water Sampling

Report Date: 10/27/06
 Work Order: R06100076

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92							Batch: C_R73669		
Sample ID: C06100331-001BDUP	Sample Duplicate					Run: SUB-C73669			10/06/06 17:49
Radon 222	ND	pCi/L	100				0.0	30	
Sample ID: MB-R73669	Method Blank					Run: SUB-C73669			10/06/06 17:49
Radon 222	ND	pCi/L	100						
Sample ID: LCS-R73669	Laboratory Control Sample					Run: SUB-C73669			10/06/06 17:49
Radon 222	301	pCi/L	100	99	70	130			
Method: E200.7							Batch: R27196		
Sample ID: R06100092-001BMS	Sample Matrix Spike					Run: ICP1-R_061019A			10/19/06 14:39
Calcium	130	mg/L	1.0	70	75	125			S
Magnesium	84	mg/L	1.0	87	75	125			
Potassium	49	mg/L	1.0	90	75	125			
Silicon	53	mg/L	1.0	92	75	125			
Sodium	73	mg/L	1.0	99	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech Uranium
 Project: Fall River County Water Sampling

Report Date: 10/27/06
 Work Order: R06100076

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R74233		
Sample ID: R06100076-003B	Post Digestion Spike			Run: SUB-C74233			10/16/06 23:31		
Aluminum	0.064	mg/L	0.10	127	70	130			
Arsenic	0.053	mg/L	0.0010	102	70	130			
Barium	0.058	mg/L	0.10	99	70	130			
Cadmium	0.046	mg/L	0.010	93	70	130			
Chromium	0.044	mg/L	0.050	88	70	130			
Lead	0.048	mg/L	0.050	95	70	130			
Manganese	0.15	mg/L	0.010	91	70	130			
Molybdenum	0.056	mg/L	0.10	105	70	130			
Nickel	0.066	mg/L	0.050	95	70	130			
Selenium	0.053	mg/L	0.0010	105	70	130			
Silver	0.014	mg/L	0.010	68	70	130			S
Uranium	0.060	mg/L	0.00030	108	70	130			
Vanadium	0.046	mg/L	0.10	92	70	130			
Zinc	0.050	mg/L	0.010	81	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: R06100076-003B	Post Digestion Spike Duplicate			Run: SUB-C74233			10/16/06 23:39		
Aluminum	0.048	mg/L	0.10	95	70	130	0.0	20	
Arsenic	0.054	mg/L	0.0010	105	70	130	2.3	20	
Barium	0.060	mg/L	0.10	104	70	130	0.0	20	
Cadmium	0.050	mg/L	0.010	99	70	130	6.4	20	
Chromium	0.047	mg/L	0.050	94	70	130	0.0	20	
Lead	0.050	mg/L	0.050	100	70	130	5.2	20	
Manganese	0.15	mg/L	0.010	90	70	130	0.5	20	
Molybdenum	0.059	mg/L	0.10	110	70	130	0.0	20	
Nickel	0.066	mg/L	0.050	95	70	130	0.2	20	
Selenium	0.053	mg/L	0.0010	105	70	130	0.4	20	
Silver	0.014	mg/L	0.010	71	70	130	4.0	20	
Uranium	0.063	mg/L	0.00030	113	70	130	4.3	20	
Vanadium	0.050	mg/L	0.10	99	70	130	0.0	20	
Zinc	0.052	mg/L	0.010	85	70	130	4.0	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: LRB	Method Blank			Run: SUB-C74233			10/16/06 15:07		
Aluminum	ND	mg/L	0.0002						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	0.0002						
Chromium	ND	mg/L	0.0001						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	2E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech Uranium
Project: Fall River County Water Sampling

Report Date: 10/27/06
Work Order: R06100076

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R74233		
Sample ID: LRB	Method Blank		Run: SUB-C74233			10/16/06 15:07			
Manganese	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	8E-05						
Selenium	ND	mg/L	0.0004						
Silver	0.0002	mg/L	3E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	9E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB							Run: SUB-C74233		
Laboratory Fortified Blank					10/16/06 15:15				
Aluminum	0.0572	mg/L	0.0010	114	85	115			
Arsenic	0.0549	mg/L	0.0010	110	85	115			
Barium	0.0587	mg/L	0.0010	117	85	115			S
Cadmium	0.0532	mg/L	0.0010	106	85	115			
Chromium	0.0516	mg/L	0.0010	103	85	115			
Copper	0.0576	mg/L	0.0010	115	85	115			
Lead	0.0538	mg/L	0.0010	108	85	115			
Manganese	0.0513	mg/L	0.0010	103	85	115			
Molybdenum	0.0533	mg/L	0.0010	107	85	115			
Nickel	0.0561	mg/L	0.0010	112	85	115			
Selenium	0.0553	mg/L	0.0010	111	85	115			
Silver	0.0211	mg/L	0.0010	105	85	115			
Uranium	0.0573	mg/L	0.00030	115	85	115			
Vanadium	0.0537	mg/L	0.0010	107	85	115			
Zinc	0.0555	mg/L	0.0010	111	85	115			
Sample ID: C06100669-002AMS4							Run: SUB-C74233		
Post Digestion Spike					10/16/06 21:16				
Aluminum	0.054	mg/L	0.10	105	70	130			
Arsenic	0.057	mg/L	0.0010	110	70	130			
Barium	0.079	mg/L	0.10	106	70	130			
Cadmium	0.050	mg/L	0.010	100	70	130			
Chromium	0.054	mg/L	0.050	100	70	130			
Lead	0.055	mg/L	0.050	109	70	130			
Manganese	0.051	mg/L	0.010	100	70	130			
Molybdenum	0.055	mg/L	0.10	108	70	130			
Selenium	0.080	mg/L	0.0010	104	70	130			
Uranium	0.15	mg/L	0.00030	116	70	130			
Vanadium	0.058	mg/L	0.10	106	70	130			
Zinc	0.055	mg/L	0.010	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech Uranium
 Project: Fall River County Water Sampling

Report Date: 10/27/06
 Work Order: R06100076

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R74233		
Sample ID: C06100669-002AMSD4	Post Digestion Spike Duplicate			Run: SUB-C74233			10/16/06 21:24		
Aluminum	0.054	mg/L	0.10	106	70	130	0.0	20	
Arsenic	0.058	mg/L	0.0010	112	70	130	1.7	20	
Barium	0.081	mg/L	0.10	108	70	130	0.0	20	
Cadmium	0.051	mg/L	0.010	102	70	130	2.2	20	
Chromium	0.055	mg/L	0.050	102	70	130	1.7	20	
Lead	0.056	mg/L	0.050	111	70	130	1.9	20	
Manganese	0.052	mg/L	0.010	102	70	130	2.5	20	
Molybdenum	0.056	mg/L	0.10	111	70	130	0.0	20	
Selenium	0.079	mg/L	0.0010	100	70	130	2.4	20	
Uranium	0.15	mg/L	0.00030	120	70	130	1.0	20	
Vanadium	0.059	mg/L	0.10	108	70	130	0.0	20	
Zinc	0.056	mg/L	0.010	99	70	130	1.0	20	
Method: E200.8							Batch: C_R74298		
Sample ID: LRB	Method Blank			Run: SUB-C74298			10/17/06 13:03		
Copper	ND	mg/L	0.0001						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C74298			10/17/06 13:10		
Copper	0.0543	mg/L	0.0010	109	85	115			
Sample ID: R06100076-001B	Post Digestion Spike			Run: SUB-C74298			10/17/06 22:18		
Copper	0.046	mg/L	0.010	92	70	130			
Method: E245.1							Batch: C_12511		
Sample ID: R06100076-006C	Sample Matrix Spike			Run: SUB-C74249			10/17/06 12:17		
Mercury	0.0053	mg/L	0.0010	103	85	115			
Sample ID: R06100076-006C	Sample Matrix Spike Duplicate			Run: SUB-C74249			10/17/06 12:21		
Mercury	0.0052	mg/L	0.0010	103	85	115	0.4	10	
Sample ID: C265-184-3	Laboratory Control Sample			Run: SUB-C74249			10/17/06 12:25		
Mercury	0.0054	mg/L	0.0010	100	90	110			
Sample ID: MBLK-12511	Method Blank			Run: SUB-C74249			10/17/06 12:29		
Mercury	0.0004	mg/L	5E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech Uranium
Project: Fall River County Water Sampling

Report Date: 10/27/06
Work Order: R06100076

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R26794		
Sample ID: LFB0610051816-3	Laboratory Fortified Blank			Run: DIONEX_061005A			10/05/06 18:42		
Chloride	5.0	mg/L	0.50	99	90	110			
Fluoride	2.0	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.4	mg/L	0.10	96	90	110			
Sample ID: LFB0610051816-4	Laboratory Fortified Blank			Run: DIONEX_061005A			10/05/06 18:57		
Chloride	4.8	mg/L	0.50	95	90	110			
Fluoride	1.9	mg/L	0.10	97	90	110			
Nitrogen, Nitrate as N	2.5	mg/L	0.10	99	90	110			
Sample ID: R06100076-001AMS	Sample Matrix Spike			Run: DIONEX_061005A			10/05/06 19:28		
Chloride	17	mg/L	0.50	57	80	120			S
Fluoride	2.2	mg/L	0.10	89	80	120			
Nitrogen, Nitrate as N	2.3	mg/L	0.10	93	80	120			
Sample ID: R06100076-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_061005A			10/05/06 19:43		
Chloride	17	mg/L	0.50	49	80	120	2.4	10	S
Fluoride	2.0	mg/L	0.10	82	80	120	7.2	10	
Nitrogen, Nitrate as N	2.3	mg/L	0.10	93	80	120	0.0	10	
Sample ID: R06100086-001AMS	Sample Matrix Spike			Run: DIONEX_061005A			10/05/06 22:02		
Chloride	190	mg/L	0.50		80	120			A
Fluoride	11	mg/L	0.32	101	80	120			
Nitrogen, Nitrate as N	39	mg/L	0.10	60	80	120			S
Sample ID: R06100086-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_061005A			10/05/06 22:18		
Chloride	190	mg/L	0.50		80	120	0.9	10	A
Fluoride	11	mg/L	0.32	95	80	120	4.7	10	
Nitrogen, Nitrate as N	38	mg/L	0.10	52	80	120	2.4	10	S
Method: E300.0							Batch: R26839		
Sample ID: LFB0610062809-3	Laboratory Fortified Blank			Run: DIONEX_061006A			10/06/06 19:10		
Sulfate	14	mg/L	1.0	94	90	110			
Sample ID: LFB0610062809-4	Laboratory Fortified Blank			Run: DIONEX_061006A			10/06/06 19:25		
Sulfate	14	mg/L	1.0	90	90	110			
Sample ID: R06100076-002AMS	Sample Matrix Spike			Run: DIONEX_061006A			10/06/06 22:30		
Sulfate	580	mg/L	7.2	72	80	120			S
Sample ID: R06100076-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_061006A			10/06/06 22:46		
Sulfate	580	mg/L	7.2	69	80	120	0.7	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech Uranium
 Project: Fall River County Water Sampling

Report Date: 10/27/06
 Work Order: R06100076

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0189		
Sample ID: MB-GrAB-0189	Method Blank				Run: SUB-C74713			10/25/06 05:29	
Gross Alpha	ND	pCi/L		1					
Gross Beta	ND	pCi/L		2					
Sample ID: UNAT-GrAB-0189	Laboratory Control Sample				Run: SUB-C74713			10/25/06 05:29	
Gross Alpha	249	pCi/L	3.0	102	70	130			
Sample ID: C06100674-001AMS	Sample Matrix Spike				Run: SUB-C74713			10/25/06 05:29	
Gross Alpha	308	pCi/L	3.0	125	70	130			
Sample ID: C06100674-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C74713			10/25/06 05:29	
Gross Alpha	300	pCi/L	3.0	122	70	130	2.5	12	
Sample ID: C06100674-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C74713			10/26/06 05:15	
Gross Beta	113	pCi/L	2.0	108	70	130	4.3	14.8	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech Uranium
 Project: Fall River County Water Sampling

Report Date: 10/27/06
 Work Order: R06100076

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R74012		
Sample ID: R06100076-001D	Sample Duplicate		Run: SUB-C74012				10/11/06 14:50		
Actinium 228	ND	pCi/L	20				0.0	30	
Americium 241	ND	pCi/L	20				0.0	30	
Bismuth 212	ND	pCi/L	20				0.0	30	
Iodine 125	ND	pCi/L	20				0.0	30	
Iodine 131	ND	pCi/L	20				0.0	30	
Manganese 54	ND	pCi/L	20				0.0	30	
Radium 223	ND	pCi/L	20				0.0	30	
Radium 226	ND	pCi/L	20				0.0	30	
Thallium 208	ND	pCi/L	20				0.0	30	
Barium 133	ND	pCi/L	20				0.0	30	
Bismuth 214	ND	pCi/L	20				0.0	30	
Cesium 134	ND	pCi/L	20				0.0	30	
Cesium 137	ND	pCi/L	20				0.0	30	
Cobalt 60	ND	pCi/L	20				0.0	30	
Gross Gamma	ND	pCi/L	20				0.0	30	
Lead 212	ND	pCi/L	20				0.0	30	
Lead 214	ND	pCi/L	20				0.0	30	
Potassium 40	ND	pCi/L	20				0.0	30	
Radium 224	ND	pCi/L	20				0.0	30	
Radium 228	ND	pCi/L	20				0.0	30	
Thorium 228	ND	pCi/L	20				0.0	30	
Thorium 234	ND	pCi/L	20				0.0	30	
Uranium 238	ND	pCi/L	20				0.0	30	
Zinc 65	ND	pCi/L	20				0.0	30	

Method: E903.0							Batch: C_RA226-1738		
Sample ID: C06100329-001AMS	Sample Matrix Spike		Run: SUB-C74644				10/23/06 11:25		
Radium 226	23.3	pCi/L	1.0	110	70	130			
Sample ID: C06100329-001AMSD	Sample Matrix Spike Duplicate		Run: SUB-C74644				10/23/06 11:25		
Radium 226	22.5	pCi/L	1.0	106	70	130	3.4	29.2	
Sample ID: MB-RA226-1738	Method Blank		Run: SUB-C74644				10/23/06 14:48		
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-1738	Laboratory Control Sample		Run: SUB-C74644				10/23/06 14:48		
Radium 226	14	pCi/L	0.20	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech Uranium
 Project: Fall River County Water Sampling

Report Date: 10/27/06
 Work Order: R06100076

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05							Batch: C_RA228-1405		
Sample ID: C06100329-008AMS Radium 228	Sample Matrix Spike					Run: SUB-C74289			10/17/06 16:18
	14	pCi/L	1.0	101	70	130			
Sample ID: C06100329-008AMSD Radium 228	Sample Matrix Spike Duplicate					Run: SUB-C74289			10/17/06 16:18
	13	pCi/L	1.0	93	70	130	8.3	31.5	
Method: SW1664A							Batch: C_12505		
Sample ID: C06100701-001EMS Non-polar Materials (SGT-HEM)	Sample Matrix Spike					Run: SUB-C74487			10/19/06 12:12
	22	mg/L	5.0	81	64	132			
Sample ID: C06100701-001EMSD Non-polar Materials (SGT-HEM)	Sample Matrix Spike Duplicate					Run: SUB-C74487			10/19/06 12:12
	21	mg/L	5.0	74	64	132	6.0	34	
Sample ID: MBLK1_061019A Non-polar Materials (SGT-HEM)	Method Blank					Run: SUB-C74487			10/19/06 12:12
	ND	mg/L	5.0						
Sample ID: LCS1_061019A Non-polar Materials (SGT-HEM)	Laboratory Control Sample					Run: SUB-C74487			10/19/06 12:13
	18	mg/L	5.0	88	64	132			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



CHAIN OF CUSTODY RECORD

PLEASE PRINT OR TYPE ALL INFORMATION EXCEPT SIGNATURES

BILLINGS, MT 100 Broad St. Billings, MT 59101 Phone: 406.245.4324 Fax: 406.245.4324		CASPER, WY 100 Broad St. Casper, WY 82401 Phone: 307.234.2600 Fax: 307.234.2600		GILLETTE, WY 100 Broad St. Gillette, WY 82701 Phone: 307.234.2600 Fax: 307.234.2600		RAPID CITY, SD 100 Broad St. Rapid City, SD 57701 Phone: 605.342.2600 Fax: 605.342.2600	
P.O. # Project Name / Address Powertech Well Sampling Contact Name & Phone Allen Scott 673 40179 Sampler's Signature <i>[Signature]</i>		Invoice to: Powertech, Inc. PO Box 90 Hot Springs, SD 57749 Report to: Sioux Env. 1020 n. Parkmore Rd Sioux Falls, SD 57200 SAMPLE ID		Sample Type: A W S V U O Air Water Soils/Solids Vegetation Urine Other		Analysis Requested <i>[Signature]</i>	
Lab No.	DATE	TIME	number of containers	Requested signature	Date	Time	Requested for Laboratory by (signature)
	2006						
	10-3	10:07	# 1, Anderson = GW18	W			52"
	10-3	10:18	# 2, Putnam = GW42	W			53"
	10-3	10:49	# 3, Unknown = GW41	W			50"
	10-3	11:12	# 4, Kenobbie = GW7	W			48"
	10-3	11:36	# 5, Spencer = GW13	W			51"
	10-3	12:00	# 6, Daniels = GW16	W			52"
1	Requested signature) <i>[Signature]</i>		Requested signature) <i>[Signature]</i>		Date	Time	Requested for Laboratory by (signature)
					10-9	2:14	<i>[Signature]</i>
							2006



ANALYTICAL SUMMARY REPORT

December 10, 2007

Cory Freeman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07090384 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 5 samples from RESPEC Inc on 9/27/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07090384-001	DewBurd GW18	09/26/07 10:39	09/27/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Anions by Ion Chromatography Uranium, Suspended Nitrogen, Ammonia pH Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Solids, Total Dissolved
R07090384-002	DewBurd GW02	09/26/07 12:46	09/27/07	Aqueous	Same As Above
R07090384-003	DewBurd GW08	09/26/07 14:33	09/27/07	Aqueous	Same As Above
R07090384-004	DewBurd GW631	09/26/07 16:40	09/27/07	Aqueous	Same As Above
R07090384-005	DewBurd GW635	09/26/07 18:08	09/27/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By:



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-001
 Client Sample ID: DewBurd GW18

Report Date: 12/10/07
 Collection Date: 09/26/07 10:39
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	184	mg/L		5			1	A2320 B	10/04/07 16:44/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/04/07 16:44/sn
Bicarbonate as HCO3	224	mg/L		5			1	A2320 B	10/04/07 16:44/sn
Calcium	31.8	mg/L		0.5			1	E200.7	10/08/07 20:34/eli-c
Magnesium	11.3	mg/L		0.5			1	E200.7	10/08/07 20:34/eli-c
Potassium	7.2	mg/L		0.5			1	E200.7	10/08/07 20:34/eli-c
Silica	7.5	mg/L		0.5			1	E200.7	10/08/07 20:34/eli-c
Sodium	278	mg/L	D	0.8			1	E200.7	10/08/07 20:34/eli-c
Chloride	13	mg/L		1			1	E300.0	09/28/07 21:44/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	09/28/07 21:44/jmh
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	09/28/07 17:26/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/28/07 21:44/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/28/07 21:44/jmh
Sulfate	513	mg/L	D	7			10	E300.0	10/02/07 01:19/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1430	umhos/cm		5.0			1	A2510 B	10/02/07 18:31/jmh
pH	8.09	s.u.		0.01			1	A4500-H B	10/02/07 18:31/jmh
Solids, Total Dissolved TDS @ 180 C	990	mg/L		5			1	A2540 C	10/02/07 13:05/sn
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	10/05/07 23:42/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	10/05/07 23:42/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/05/07 23:42/eli-c
Boron	ND	mg/L		0.1			1	E200.7	10/08/07 20:34/eli-c
Cadmium	ND	mg/L		0.01			1	E200.8	10/05/07 23:42/eli-c
Chromium	ND	mg/L		0.05			1	E200.7	10/08/07 20:34/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/05/07 23:42/eli-c
Iron	ND	mg/L		0.03			1	E200.7	10/08/07 20:34/eli-c
Lead	ND	mg/L		0.05			1	E200.8	10/05/07 23:42/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	10/05/07 23:42/eli-c
Mercury	ND	mg/L		0.0002			1	E200.8	10/05/07 23:42/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/05/07 23:42/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/05/07 23:42/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/05/07 23:42/eli-c
Silver	ND	mg/L		0.01			1	E200.8	10/05/07 23:42/eli-c
Thorium 232	ND	mg/L		0.001			1	E200.8	10/05/07 23:42/eli-c
Uranium	0.0061	mg/L		0.0003			1	E200.8	10/05/07 23:42/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-001
 Client Sample ID: DewBurd GW18

Report Date: 12/10/07
 Collection Date: 09/26/07 10:39
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	10/05/07 23:42/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/05/07 23:42/eli-c
METALS - SUSPENDED									
Uranium	0.0017	mg/L		0.0003			1	E200.8	11/30/07 13:23/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.001			1	E200.8	10/04/07 15:46/eli-c
Uranium	0.008	mg/L		0.0003			1	E200.8	10/04/07 15:46/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	15.7	pCi/L		1.0			1	E900.0	10/12/07 01:09/eli-c
Gross Alpha precision (±)	1.3	pCi/L					1	E900.0	10/12/07 01:09/eli-c
Gross Beta	6.7	pCi/L		2.0			1	E900.0	10/12/07 01:09/eli-c
Gross Beta precision (±)	2.4	pCi/L					1	E900.0	10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/30/07 13:35/eli-c
Thorium 230	ND	pCi/L		0.20			1	E907.0	10/29/07 15:00/eli-c
Gross Gamma	510	pCi/L		20			1	E901.1	10/04/07 15:30/eli-c
Gross Gamma precision (±)	100	pCi/L					1	E901.1	10/04/07 15:30/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	11/13/07 17:07/eli-c
Polonium 210	6.0	pCi/L		1.0			1	RMO-3008	10/29/07 13:00/eli-c
Polonium 210 precision (±)	4.4	pCi/L					1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	4.0	pCi/L		0.2			1	E903.0	12/05/07 12:38/eli-c
Radium 226 precision (±)	0.8	pCi/L					1	E903.0	12/05/07 12:38/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/13/07 17:07/eli-c
RADIONUCLIDES - TOTAL									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	6.0	pCi/L		1.0			1	RMO-3008	10/29/07 13:00/eli-c
Polonium 210 precision (±)	4.4	pCi/L					1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	4.0	pCi/L		0.2			1	E903.0	10/10/07 16:32/eli-c
Radium 226 precision (±)	0.8	pCi/L					1	E903.0	10/10/07 16:32/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/29/07 13:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-001
 Client Sample ID: DewBurd GW18

Report Date: 12/10/07
 Collection Date: 09/26/07 10:39
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	0.211	%					1	A1030 E 11/30/07 16:24/eli-c
Anions	14.7	meq/L					1	A1030 E 11/30/07 16:24/eli-c
Cations	14.8	meq/L					1	A1030 E 11/30/07 16:24/eli-c
Solids, Total Dissolved Calculated	965	mg/L					1	A1030 E 11/30/07 16:24/eli-c
TDS Balance (0.80 - 1.20)	1.03	dec. %					1	A1030 E 11/30/07 16:24/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-002
 Client Sample ID: DewBurd GW02

Report Date: 12/10/07
 Collection Date: 09/26/07 12:46
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	214	mg/L		5		1	A2320 B	10/04/07 16:46/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 16:46/sn
Bicarbonate as HCO3	261	mg/L		5		1	A2320 B	10/04/07 16:46/sn
Calcium	48.5	mg/L		0.5		1	E200.7	10/08/07 20:38/eli-c
Magnesium	15.8	mg/L		0.5		1	E200.7	10/08/07 20:38/eli-c
Potassium	11.5	mg/L		0.5		1	E200.7	10/08/07 20:38/eli-c
Silica	8.0	mg/L		0.5		1	E200.7	10/08/07 20:38/eli-c
Sodium	273	mg/L	D	0.8		1	E200.7	10/08/07 20:38/eli-c
Chloride	10	mg/L		1		1	E300.0	09/28/07 22:00/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	09/28/07 22:00/jmh
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	09/28/07 17:28/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/28/07 22:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/28/07 22:00/jmh
Sulfate	583	mg/L	D	7		10	E300.0	10/02/07 01:36/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1570	umhos/cm		5.0		1	A2510 B	10/02/07 18:32/jmh
pH	7.91	s.u.		0.01		1	A4500-H B	10/02/07 18:32/jmh
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	H	5		1	A2540 C	11/26/07 16:03/jmh
H-Initial results were within hold time. Sample rechecked and results are reported.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/05/07 23:50/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/05/07 23:50/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/05/07 23:50/eli-c
Boron	ND	mg/L		0.1		1	E200.7	10/08/07 20:38/eli-c
Cadmium	ND	mg/L		0.01		1	E200.8	10/05/07 23:50/eli-c
Chromium	ND	mg/L		0.05		1	E200.7	10/08/07 20:38/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/05/07 23:50/eli-c
Iron	ND	mg/L		0.03		1	E200.7	10/08/07 20:38/eli-c
Lead	ND	mg/L		0.05		1	E200.8	10/05/07 23:50/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	10/05/07 23:50/eli-c
Mercury	ND	mg/L		0.0002		1	E200.8	10/05/07 23:50/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/05/07 23:50/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/05/07 23:50/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/05/07 23:50/eli-c
Silver	ND	mg/L		0.01		1	E200.8	10/05/07 23:50/eli-c
Thorium 232	ND	mg/L		0.001		1	E200.8	10/05/07 23:50/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/05/07 23:50/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-002
 Client Sample ID: DewBurd GW02

Report Date: 12/10/07
 Collection Date: 09/26/07 12:46
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 10/05/07 23:50/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 10/05/07 23:50/eli-c
METALS - SUSPENDED							
Uranium	0.0003	mg/L		0.0003		1	E200.8 11/30/07 13:23/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.001		1	E200.8 10/04/07 15:53/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8 10/04/07 15:53/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1.4	pCi/L		1.0		1	E900.0 10/12/07 01:09/eli-c
Gross Alpha precision (±)	1.0	pCi/L				1	E900.0 10/12/07 01:09/eli-c
Gross Beta	9.3	pCi/L		2.0		1	E900.0 10/12/07 01:09/eli-c
Gross Beta precision (±)	2.9	pCi/L				1	E900.0 10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M 10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 10/30/07 13:35/eli-c
Thorium 230	ND	pCi/L		0.20		1	E907.0 10/29/07 15:00/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1 10/04/07 15:30/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/13/07 17:07/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 10/29/07 13:00/eli-c
Radium 226	2.2	pCi/L		0.2		1	E903.0 12/05/07 12:38/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0 12/05/07 12:38/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/13/07 17:07/eli-c
RADIONUCLIDES - TOTAL							
Lead 210	ND	pCi/L		1.0		1	E909.0M 10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 10/29/07 13:00/eli-c
Radium 226	2.2	pCi/L		0.2		1	E903.0 10/10/07 16:32/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0 10/10/07 16:32/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 10/29/07 13:00/eli-c
DATA QUALITY							
A/C Balance (± 5)	-2.46	%				1	A1030 E 11/30/07 16:25/eli-c
Anions	16.7	meq/L				1	A1030 E 11/30/07 16:25/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090384-002
Client Sample ID: DewBurd GW02

Report Date: 12/10/07
Collection Date: 09/26/07 12:46
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Cations	15.9	meq/L					1	A1030 E 11/30/07 16:25/eli-c
Solids, Total Dissolved Calculated	1070	mg/L					1	A1030 E 11/30/07 16:25/eli-c
TDS Balance (0.80 - 1.20)	1.00	dec. %					1	A1030 E 11/30/07 16:25/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-003
 Client Sample ID: DewBurd GW08

Report Date: 12/10/07
 Collection Date: 09/26/07 14:33
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	168	mg/L		5			1	A2320 B	10/04/07 16:49/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/04/07 16:49/sn
Bicarbonate as HCO3	205	mg/L		5			1	A2320 B	10/04/07 16:49/sn
Calcium	48.5	mg/L		0.5			1	E200.7	10/08/07 20:41/eli-c
Magnesium	21.2	mg/L		0.5			1	E200.7	10/08/07 20:41/eli-c
Potassium	14.2	mg/L		0.5			1	E200.7	10/08/07 20:41/eli-c
Silica	6.9	mg/L		0.5			1	E200.7	10/08/07 20:41/eli-c
Sodium	224	mg/L	D	0.8			1	E200.7	10/08/07 20:41/eli-c
Chloride	13	mg/L		1			1	E300.0	09/28/07 22:17/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	09/28/07 22:17/jmh
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	09/28/07 17:31/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/28/07 22:17/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/28/07 22:17/jmh
Sulfate	540	mg/L	D	7			10	E300.0	10/02/07 01:52/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1420	umhos/cm		5.0			1	A2510 B	10/02/07 18:33/jmh
pH	7.93	s.u.		0.01			1	A4500-H B	10/02/07 18:34/jmh
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5			1	A2540 C	10/02/07 13:05/sn
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	10/05/07 23:58/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	10/05/07 23:58/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/05/07 23:58/eli-c
Boron	ND	mg/L		0.1			1	E200.7	10/08/07 20:41/eli-c
Cadmium	ND	mg/L		0.01			1	E200.8	10/05/07 23:58/eli-c
Chromium	ND	mg/L		0.05			1	E200.7	10/08/07 20:41/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/05/07 23:58/eli-c
Iron	ND	mg/L		0.03			1	E200.7	10/08/07 20:41/eli-c
Lead	ND	mg/L		0.05			1	E200.8	10/05/07 23:58/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	10/05/07 23:58/eli-c
Mercury	ND	mg/L		0.0002			1	E200.8	10/05/07 23:58/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/05/07 23:58/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/05/07 23:58/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/05/07 23:58/eli-c
Silver	ND	mg/L		0.01			1	E200.8	10/05/07 23:58/eli-c
Thorium 232	ND	mg/L		0.001			1	E200.8	10/05/07 23:58/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	10/05/07 23:58/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-003
 Client Sample ID: DewBurd GW08

Report Date: 12/10/07
 Collection Date: 09/26/07 14:33
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 10/05/07 23:58/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 10/05/07 23:58/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 11/30/07 13:23/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.001		1	E200.8 10/04/07 16:01/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 10/04/07 16:01/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	5.0	pCi/L		1.0		1	E900.0 10/12/07 01:09/eli-c
Gross Alpha precision (±)	1.0	pCi/L				1	E900.0 10/12/07 01:09/eli-c
Gross Beta	15.9	pCi/L		2.0		1	E900.0 10/12/07 01:09/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0 10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M 10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 10/30/07 13:35/eli-c
Thorium 230	ND	pCi/L		0.20		1	E907.0 10/29/07 15:00/eli-c
Gross Gamma	650	pCi/L		20		1	E901.1 10/04/07 15:30/eli-c
Gross Gamma precision (±)	120	pCi/L				1	E901.1 10/04/07 15:30/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/13/07 17:07/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 10/29/07 13:00/eli-c
Radium 226	3.5	pCi/L		0.2		1	E903.0 12/05/07 12:38/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0 12/05/07 12:38/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/13/07 17:07/eli-c
RADIONUCLIDES - TOTAL							
Lead 210	ND	pCi/L		1.0		1	E909.0M 10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 10/29/07 13:00/eli-c
Radium 226	3.5	pCi/L		0.2		1	E903.0 10/10/07 16:32/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0 10/10/07 16:32/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 10/29/07 13:00/eli-c
DATA QUALITY							
A/C Balance (± 5)	-2.44	%				1	A1030 E 11/30/07 16:25/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090384-003
Client Sample ID: DewBurd GW08

Report Date: 12/10/07
Collection Date: 09/26/07 14:33
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
Anions	15.0	meq/L					1	A1030 E	11/30/07 16:25/eli-c
Cations	14.3	meq/L					1	A1030 E	11/30/07 16:25/eli-c
Solids, Total Dissolved Calculated	962	mg/L					1	A1030 E	11/30/07 16:25/eli-c
TDS Balance (0.80 - 1.20)	1.00	dec. %					1	A1030 E	11/30/07 16:25/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-004
 Client Sample ID: DewBurd GW631

Report Date: 12/10/07
 Collection Date: 09/26/07 16:40
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	168	mg/L		5			1	A2320 B	10/04/07 16:52/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/04/07 16:52/sn
Bicarbonate as HCO3	205	mg/L		5			1	A2320 B	10/04/07 16:52/sn
Calcium	268	mg/L		0.5			1	E200.7	10/08/07 20:44/eli-c
Magnesium	82.9	mg/L		0.5			1	E200.7	10/08/07 20:44/eli-c
Potassium	15.9	mg/L		0.5			1	E200.7	10/08/07 20:44/eli-c
Silica	7.2	mg/L		0.5			1	E200.7	10/08/07 20:44/eli-c
Sodium	92.4	mg/L	D	0.8			1	E200.7	10/08/07 20:44/eli-c
Chloride	10	mg/L		1			1	E300.0	09/28/07 22:33/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	09/28/07 22:33/jmh
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	09/28/07 17:32/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/28/07 22:33/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/28/07 22:33/jmh
Sulfate	1240	mg/L	D	10			20	E300.0	10/02/07 02:08/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2180	umhos/cm		5.0			1	A2510 B	10/02/07 18:35/jmh
pH	7.76	s.u.		0.01			1	A4500-H B	10/02/07 18:36/jmh
Solids, Total Dissolved TDS @ 180 C	1900	mg/L		5			1	A2540 C	10/02/07 13:05/sn
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	10/08/07 22:08/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	10/08/07 22:08/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/08/07 22:08/eli-c
Boron	0.2	mg/L		0.1			1	E200.7	10/08/07 20:44/eli-c
Cadmium	ND	mg/L		0.01			1	E200.8	10/08/07 22:08/eli-c
Chromium	ND	mg/L		0.05			1	E200.7	10/08/07 20:44/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/08/07 22:08/eli-c
Iron	ND	mg/L		0.03			1	E200.7	10/08/07 20:44/eli-c
Lead	ND	mg/L		0.05			1	E200.8	10/08/07 22:08/eli-c
Manganese	0.28	mg/L		0.01			1	E200.8	10/08/07 22:08/eli-c
Mercury	ND	mg/L		0.0002			1	E200.8	10/08/07 22:08/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/08/07 22:08/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/08/07 22:08/eli-c
Selenium	0.002	mg/L		0.001			1	E200.8	10/08/07 22:08/eli-c
Silver	ND	mg/L		0.01			1	E200.8	10/08/07 22:08/eli-c
Thorium 232	ND	mg/L		0.001			1	E200.8	10/08/07 22:08/eli-c
Uranium	0.0027	mg/L		0.0003			1	E200.8	10/08/07 22:08/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-004
 Client Sample ID: DewBurd GW631

Report Date: 12/10/07
 Collection Date: 09/26/07 16:40
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	10/08/07 22:08/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/08/07 22:08/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	11/30/07 13:23/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.001			1	E200.8	10/04/07 16:08/eli-c
Uranium	0.003	mg/L		0.0003			1	E200.8	10/04/07 16:08/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	51.0	pCi/L		1.0			1	E900.0	10/12/07 01:09/eli-c
Gross Alpha precision (±)	3.2	pCi/L					1	E900.0	10/12/07 01:09/eli-c
Gross Beta	20.9	pCi/L		2.0			1	E900.0	10/12/07 01:09/eli-c
Gross Beta precision (±)	4.9	pCi/L					1	E900.0	10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/29/07 13:00/eli-c
Polonium 210 precision (±)	ND	pCi/L					1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	12.9	pCi/L		0.2			1	E903.0	10/30/07 13:35/eli-c
Radium 226 precision (±)	3.7	pCi/L					1	E903.0	10/30/07 13:35/eli-c
Thorium 230	ND	pCi/L		0.20			1	E907.0	10/29/07 15:00/eli-c
Gross Gamma	520	pCi/L		20			1	E901.1	10/04/07 15:30/eli-c
Gross Gamma precision (±)	100	pCi/L					1	E901.1	10/04/07 15:30/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	11/13/07 17:07/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	2.3	pCi/L		0.2			1	E903.0	12/05/07 12:38/eli-c
Radium 226 precision (±)	1.6	pCi/L					1	E903.0	12/05/07 12:38/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/13/07 17:07/eli-c
RADIONUCLIDES - TOTAL									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	15.2	pCi/L		0.2			1	E903.0	10/10/07 16:32/eli-c
Radium 226 precision (±)	1.6	pCi/L					1	E903.0	10/10/07 16:32/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/29/07 13:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-004
 Client Sample ID: DewBurd GW631

Report Date: 12/10/07
 Collection Date: 09/26/07 16:40
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	-4.28	%					1	A1030 E 11/30/07 16:29/eli-c
Anions	26.9	meq/L					1	A1030 E 11/30/07 16:29/eli-c
Cations	24.7	meq/L					1	A1030 E 11/30/07 16:29/eli-c
Solids, Total Dissolved Calculated	1690	mg/L					1	A1030 E 11/30/07 16:29/eli-c
TDS Balance (0.80 - 1.20)	1.11	dec. %					1	A1030 E 11/30/07 16:29/eli-c

- This Balance uses sulfate data from 200.7 analysis.

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-005
 Client Sample ID: DewBurd GW635

Report Date: 12/10/07
 Collection Date: 09/26/07 18:08
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	124	mg/L		5			1	A2320 B	10/04/07 16:54/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/04/07 16:54/sn
Bicarbonate as HCO3	151	mg/L		5			1	A2320 B	10/04/07 16:54/sn
Calcium	110	mg/L		0.5			1	E200.7	10/08/07 20:48/eli-c
Magnesium	44.3	mg/L		0.5			1	E200.7	10/08/07 20:48/eli-c
Potassium	7.8	mg/L		0.5			1	E200.7	10/08/07 20:48/eli-c
Silica	8.6	mg/L		0.5			1	E200.7	10/08/07 20:48/eli-c
Sodium	470	mg/L	D	8			10	E200.7	10/08/07 17:54/eli-c
Chloride	24	mg/L		1			5	E300.0	10/02/07 02:41/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	09/28/07 22:50/jmh
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	09/28/07 17:33/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/28/07 22:50/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/28/07 22:50/jmh
Sulfate	1500	mg/L	D	40			50	E300.0	10/02/07 02:25/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2890	umhos/cm		5.0			1	A2510 B	10/02/07 18:38/jmh
pH	7.72	s.u.		0.01			1	A4500-H B	10/02/07 18:38/jmh
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5			1	A2540 C	10/02/07 13:05/sn
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	10/04/07 16:16/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/04/07 16:16/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/04/07 16:16/eli-c
Boron	0.4	mg/L		0.1			1	E200.7	10/08/07 20:48/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/04/07 16:16/eli-c
Chromium	ND	mg/L		0.05			1	E200.7	10/08/07 20:48/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/04/07 16:16/eli-c
Iron	ND	mg/L		0.03			1	E200.7	10/08/07 20:48/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/04/07 16:16/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	10/04/07 16:16/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/04/07 16:16/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/04/07 16:16/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/04/07 16:16/eli-c
Selenium	0.001	mg/L		0.001			1	E200.8	10/04/07 16:16/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/04/07 16:16/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/04/07 16:16/eli-c
Uranium	0.0020	mg/L		0.0003			1	E200.8	10/04/07 16:16/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-005
 Client Sample ID: DewBurd GW635

Report Date: 12/10/07
 Collection Date: 09/26/07 18:08
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	10/04/07 16:16/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/04/07 16:16/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.0002		1	E200.8	10/08/07 22:16/eli-c
Uranium	0.002	mg/L		0.0003		1	E200.8	10/08/07 22:16/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	2.5	pCi/L		1.0		1	E900.0	10/12/07 01:09/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	10/12/07 01:09/eli-c
Gross Beta	4.3	pCi/L		2.0		1	E900.0	10/12/07 01:09/eli-c
Gross Beta precision (±)	6.9	pCi/L				1	E900.0	10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	1.6	pCi/L		0.2		1	E903.0	10/10/07 16:32/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	10/10/07 16:32/eli-c
Thorium 230	ND	pCi/L		0.20		1	E907.0	10/29/07 15:00/eli-c
Gross Gamma	960	pCi/L		20		1	E901.1	10/04/07 15:30/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	10/04/07 15:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/13/07 17:07/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Polonium 210 precision (±)	ND	pCi/L				1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	0.8	pCi/L		0.2		1	E903.0	11/13/07 17:07/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	11/13/07 17:07/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/13/07 17:07/eli-c
RADIONUCLIDES - TOTAL								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	2.4	pCi/L		0.2		1	E903.0	10/30/07 13:35/eli-c
Radium 226 precision (±)	1.5	pCi/L				1	E903.0	10/30/07 13:35/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/29/07 13:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090384-005
 Client Sample ID: DewBurd GW635

Report Date: 12/10/07
 Collection Date: 09/26/07 18:08
 Date Received: 09/27/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	-1.14	%					1	A1030 E 11/30/07 16:29/eli-c
Anions	30.4	meq/L					1	A1030 E 11/30/07 16:29/eli-c
Cations	29.8	meq/L					1	A1030 E 11/30/07 16:29/eli-c
Solids, Total Dissolved Calculated	2040	mg/L					1	A1030 E 11/30/07 16:29/eli-c
TDS Balance (0.80 - 1.20)	1.09	dec. %					1	A1030 E 11/30/07 16:29/eli-c

- This Balance uses sulfate data from 200.7 analysis.

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/10/07
Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 071004A-ALK-SEL-W		
Sample ID: MBLK1_071004A	Method Blank					Run: PH_COND1-R_071004A			10/04/07 15:38
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_071004A	Laboratory Control Sample					Run: PH_COND1-R_071004A			10/04/07 15:44
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: R07090368-001BMS	Sample Matrix Spike					Run: PH_COND1-R_071004A			10/04/07 16:27
Alkalinity, Total as CaCO3	350	mg/L	5.0	96	80	120			
Sample ID: R07090385-002AMS	Sample Matrix Spike					Run: PH_COND1-R_071004A			10/04/07 17:05
Alkalinity, Total as CaCO3	272	mg/L	5.0	108	80	120			
Method: A2510 B							Batch: 071002_1_COND-PROBE-W		
Sample ID: LCS1-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:11
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:12
Conductivity @ 25 C	4920	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:13
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071002	Method Blank					Run: PH_COND2-R_071002A			10/02/07 18:13
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07090384-004ADUP	Sample Duplicate					Run: PH_COND2-R_071002A			10/02/07 18:36
Conductivity @ 25 C	2190	umhos/cm	5.0				0.5	10	
Method: A2540 C							Batch: 071002A-SLDS-TDS-W		
Sample ID: MBLK1_071002A	Method Blank					Run: BAL-4-R_071002A			10/02/07 13:16
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_071002A	Laboratory Control Sample					Run: BAL-4-R_071002A			10/02/07 13:16
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/10/07
 Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 071126A-SLDS-TDS-W		
Sample ID: MBLK1_071126A	Method Blank				Run: BAL-4-R_071126B			11/26/07 15:42	
Solids, Total Dissolved TDS @ 180 C	4	mg/L	3						
Sample ID: LCS1_071126A	Laboratory Control Sample				Run: BAL-4-R_071126B			11/26/07 15:43	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	105	90	110			
Sample ID: R07110245-002BMS	Sample Matrix Spike				Run: BAL-4-R_071126B			11/26/07 15:49	
Solids, Total Dissolved TDS @ 180 C	1900	mg/L	5.0	95	80	120			
Sample ID: R07110245-002BMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071126B			11/26/07 15:50	
Solids, Total Dissolved TDS @ 180 C	1900	mg/L	5.0	110	80	120	1.6	10	
Method: A4500-H B							Batch: 071002_1_PH-W		
Sample ID: LCS_pH-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:08	
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R07090384-004ADUP	Sample Duplicate				Run: PH_COND2-R_071002A			10/02/07 18:37	
pH	7.75	s.u.	0.010				0.1	1.25	
Method: A4500-NH3 G							Batch: A2007-09-28_2_NH3_01		
Sample ID: MBLK-1	Method Blank				Run: TECHAA2-R_070928A			09/28/07 14:57	
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_070928A			09/28/07 15:00	
Nitrogen, Ammonia as N	0.27	mg/L	0.10	106	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_070928A			09/28/07 15:01	
Nitrogen, Ammonia as N	0.27	mg/L	0.10	107	90	110			
Sample ID: R07090384-001BDUP	Sample Duplicate				Run: TECHAA2-R_070928A			09/28/07 17:27	
Nitrogen, Ammonia as N	0.19	mg/L	0.10				0.5	10	
Sample ID: R07090384-002BMS	Sample Matrix Spike				Run: TECHAA2-R_070928A			09/28/07 17:30	
Nitrogen, Ammonia as N	0.33	mg/L	0.10	115	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/10/07
 Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R90934		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C90934			10/08/07 14:46		
Silica	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	95	85	125			
Chromium	2.0	mg/L	0.050	98	85	125			
Iron	1.9	mg/L	0.030	96	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C90934			10/08/07 14:49		
Calcium	25	mg/L	0.50	102	85	125			
Magnesium	25	mg/L	0.50	100	85	125			
Potassium	28	mg/L	0.50	110	85	125			
Sodium	25	mg/L	0.76	102	85	125			
Sample ID: LRB	Laboratory Reagent Blank			Run: SUB-C90934			10/08/07 14:56		
Silica	ND	mg/L	0.10		0	0			
Boron	0.012	mg/L	0.10		0	0			
Calcium	ND	mg/L	0.50		0	0			
Chromium	ND	mg/L	0.050		0	0			
Iron	ND	mg/L	0.030		0	0			
Magnesium	ND	mg/L	0.50		0	0			
Potassium	0.039	mg/L	0.50		0	0			
Sodium	ND	mg/L	0.76		0	0			
Sample ID: C07100214-001CMS	Sample Matrix Spike			Run: SUB-C90934			10/08/07 17:18		
Boron	9.32	mg/L	0.10	93	70	130			
Calcium	449	mg/L	1.0	84	70	130			
Chromium	9.45	mg/L	0.050	95	70	130			
Iron	9.09	mg/L	0.046	91	70	130			
Magnesium	432	mg/L	0.50	84	70	130			
Potassium	1130	mg/L	0.50	93	70	130			
Silica	16.0	mg/L	0.20	85	70	130			
Sodium	681	mg/L	7.6	86	70	130			
Sample ID: C07100214-001CMSD	Sample Matrix Spike Duplicate			Run: SUB-C90934			10/08/07 17:21		
Boron	9.66	mg/L	0.10	97	70	130	3.6	20	
Calcium	459	mg/L	1.0	86	70	130	2.1	20	
Chromium	9.63	mg/L	0.050	96	70	130	1.9	20	
Iron	9.41	mg/L	0.046	94	70	130	3.5	20	
Magnesium	439	mg/L	0.50	86	70	130	1.7	20	
Potassium	1150	mg/L	0.50	95	70	130	1.7	20	
Silica	16.4	mg/L	0.20	90	70	130	2.5	20	
Sodium	698	mg/L	7.6	90	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/10/07
Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R90934		
Sample ID: LFB-TM	Laboratory Fortified Blank					Run: SUB-C90934			10/08/07 22:59
Silica	1.8	mg/L	0.10	91	85	125			
Boron	1.9	mg/L	0.10	94	85	125			
Chromium	1.8	mg/L	0.050	90	85	125			
Iron	1.8	mg/L	0.030	88	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank					Run: SUB-C90934			10/08/07 23:02
Potassium	27	mg/L	0.50	109	85	125			
Method: E200.8							Batch: C_16355		
Sample ID: MB-16355	Method Blank					Run: SUB-C90947			10/08/07 21:39
Mercury	ND	mg/L	3E-05						
Sample ID: LCS-16355	Laboratory Control Sample					Run: SUB-C90947			10/08/07 21:53
Uranium	0.50	mg/L	0.00038	100	85	115			
Sample ID: C07100221-004D MS4	Post Digestion Spike					Run: SUB-C91068			10/11/07 08:36
Mercury	0.050	mg/L	0.0010	100	70	130			
Sample ID: C07100221-004D MSD4	Post Digestion Spike Duplicate					Run: SUB-C91068			10/11/07 08:42
Mercury	0.050	mg/L	0.0010	100	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/10/07
Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R90827		
Sample ID: LRB	Method Blank		Run: SUB-C90827			10/04/07 12:35			
Aluminum	ND	mg/L	0.0002						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	0.0002	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	2E-05						
Manganese	3E-05	mg/L	3E-05						
Mercury	7E-05	mg/L	6E-06						
Molybdenum	0.0005	mg/L	7E-05						
Nickel	0.0003	mg/L	8E-05						
Selenium	ND	mg/L	0.0004						
Silver	ND	mg/L	3E-05						
Thorium 232	0.00010	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	9E-05						
Zinc	ND	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C90827			10/04/07 12:42			
Aluminum	0.0497	mg/L	0.0010	99	85	115			
Arsenic	0.0496	mg/L	0.0010	99	85	115			
Barium	0.0490	mg/L	0.0010	98	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Copper	0.0504	mg/L	0.0010	101	85	115			
Lead	0.0498	mg/L	0.0010	100	85	115			
Manganese	0.0492	mg/L	0.0010	98	85	115			
Mercury	0.00506	mg/L	0.0010	100	85	115			
Molybdenum	0.0504	mg/L	0.0010	100	85	115			
Nickel	0.0506	mg/L	0.0010	101	85	115			
Selenium	0.0495	mg/L	0.0010	99	85	115			
Silver	0.0197	mg/L	0.0010	98	85	115			
Thorium 232	0.0499	mg/L	0.0010	100	85	115			
Uranium	0.0504	mg/L	0.00030	101	85	115			
Vanadium	0.0497	mg/L	0.0010	99	85	115			
Zinc	0.0528	mg/L	0.0021	106	85	115			
Sample ID: C07100156-001EMS4	Post Digestion Spike		Run: SUB-C90827			10/04/07 18:32			
Aluminum	0.245	mg/L	0.10	97	70	130			
Arsenic	0.258	mg/L	0.0010	102	70	130			
Barium	0.357	mg/L	0.10	101	70	130			
Cadmium	0.247	mg/L	0.010	99	70	130			
Copper	0.251	mg/L	0.010	97	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/10/07
 Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R90827		
Sample ID: C07100156-001EMS4	Post Digestion Spike			Run: SUB-C90827			10/04/07 18:32		
Lead	0.255	mg/L	0.050	102	70	130			
Manganese	0.248	mg/L	0.010	98	70	130			
Mercury	0.0257	mg/L	0.0010	103	70	130			
Molybdenum	0.262	mg/L	0.10	103	70	130			
Nickel	0.247	mg/L	0.050	97	70	130			
Selenium	0.246	mg/L	0.0020	97	70	130			
Silver	0.0828	mg/L	0.010	83	70	130			
Thorium 232	0.252	mg/L	0.0010	100	70	130			
Uranium	0.305	mg/L	0.00030	105	70	130			
Vanadium	0.259	mg/L	0.10	101	70	130			
Zinc	0.275	mg/L	0.010	100	70	130			
Sample ID: C07100156-001EMSD4	Post Digestion Spike Duplicate			Run: SUB-C90827			10/04/07 18:39		
Aluminum	0.251	mg/L	0.10	99	70	130	2.2	20	
Arsenic	0.257	mg/L	0.0010	101	70	130	0.1	20	
Barium	0.356	mg/L	0.10	101	70	130	0.2	20	
Cadmium	0.247	mg/L	0.010	99	70	130	0.1	20	
Copper	0.252	mg/L	0.010	98	70	130	0.2	20	
Lead	0.257	mg/L	0.050	103	70	130	0.7	20	
Manganese	0.250	mg/L	0.010	98	70	130	0.5	20	
Mercury	0.0258	mg/L	0.0010	103	70	130	0.8	20	
Molybdenum	0.261	mg/L	0.10	103	70	130	0.5	20	
Nickel	0.240	mg/L	0.050	95	70	130	2.7	20	
Selenium	0.249	mg/L	0.0020	98	70	130	1.3	20	
Silver	0.0893	mg/L	0.010	89	70	130	7.6	20	
Thorium 232	0.261	mg/L	0.0010	104	70	130	3.7	20	
Uranium	0.308	mg/L	0.00030	107	70	130	1.0	20	
Vanadium	0.259	mg/L	0.10	101	70	130	0.1	20	
Zinc	0.274	mg/L	0.010	100	70	130	0.5	20	
Sample ID: C07100175-002EMS4	Post Digestion Spike			Run: SUB-C90827			10/04/07 20:17		
Thorium 232	0.0494	mg/L	0.0010	99	70	130			
Aluminum	0.0420	mg/L	0.10	84	70	130			
Arsenic	0.0538	mg/L	0.0010	103	70	130			
Barium	0.272	mg/L	0.10	70	70	130			A
Cadmium	0.0498	mg/L	0.0010	100	70	130			
Copper	0.0585	mg/L	0.010	96	70	130			
Lead	0.0575	mg/L	0.0010	99	70	130			
Manganese	0.0472	mg/L	0.010	92	70	130			
Mercury	0.00492	mg/L	0.0010	98	70	130			
Molybdenum	0.0518	mg/L	0.10	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/10/07
Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R90827		
Sample ID: C07100175-002EMS4	Post Digestion Spike			Run: SUB-C90827			10/04/07 20:17		
Nickel	0.0556	mg/L	0.050	97	70	130			
Selenium	0.0546	mg/L	0.0010	107	70	130			
Silver	0.0135	mg/L	0.010	68	70	130			S
Uranium	0.0619	mg/L	0.00030	101	70	130			
Vanadium	0.0529	mg/L	0.10	99	70	130			
Zinc	0.181	mg/L	0.010	100	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07100175-002EMSD4	Post Digestion Spike Duplicate			Run: SUB-C90827			10/04/07 20:24		
Thorium 232	0.0517	mg/L	0.0010	103	70	130	4.5	20	
Aluminum	0.0420	mg/L	0.10	84	70	130	0.0	20	
Arsenic	0.0545	mg/L	0.0010	105	70	130	1.2	20	
Barium	0.272	mg/L	0.10		70	130	0.1	20	A
Cadmium	0.0497	mg/L	0.0010	99	70	130	0.2	20	
Copper	0.0591	mg/L	0.010	97	70	130	1.0	20	
Lead	0.0580	mg/L	0.0010	100	70	130	0.8	20	
Manganese	0.0482	mg/L	0.010	95	70	130	2.1	20	
Mercury	0.00507	mg/L	0.0010	101	70	130	2.9	20	
Molybdenum	0.0520	mg/L	0.10	100	70	130	0.0	20	
Nickel	0.0565	mg/L	0.050	99	70	130	1.6	20	
Selenium	0.0549	mg/L	0.0010	107	70	130	0.7	20	
Silver	0.0176	mg/L	0.010	88	70	130	26	20	R
Uranium	0.0634	mg/L	0.00030	104	70	130	2.5	20	
Vanadium	0.0539	mg/L	0.10	101	70	130	0.0	20	
Zinc	0.182	mg/L	0.010	102	70	130	0.5	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C90827			10/05/07 01:53		
Arsenic	0.0494	mg/L	0.0010	99	85	115			
Barium	0.0496	mg/L	0.0010	99	85	115			
Cadmium	0.0486	mg/L	0.0010	97	85	115			
Copper	0.0495	mg/L	0.0010	99	85	115			
Lead	0.0495	mg/L	0.0010	99	85	115			
Manganese	0.0477	mg/L	0.0010	95	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0486	mg/L	0.0010	97	85	115			
Selenium	0.0500	mg/L	0.0010	100	85	115			
Thorium 232	0.0482	mg/L	0.0010	96	85	115			
Uranium	0.0495	mg/L	0.00030	99	85	115			
Vanadium	0.0477	mg/L	0.0010	95	85	115			
Zinc	0.0512	mg/L	0.0021	102	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/10/07
Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R90827		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C90827		10/05/07 01:53			
Method: E200.8							Batch: C_R90894		
Sample ID: LRB	Method Blank			Run: SUB-C90894		10/05/07 22:50			
Aluminum	0.001	mg/L	0.0002						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	0.0002						
Copper	0.0002	mg/L	0.0001						
Lead	ND	mg/L	2E-05						
Manganese	9E-05	mg/L	3E-05						
Mercury	3E-05	mg/L	6E-06						
Molybdenum	8E-05	mg/L	7E-05						
Nickel	9E-05	mg/L	8E-05						
Selenium	ND	mg/L	0.0004						
Silver	4E-05	mg/L	3E-05						
Thorium 232	7E-05	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	9E-05						
Zinc	0.002	mg/L	0.002						
Sample ID: LFB							Run: SUB-C90894		10/05/07 22:57
Laboratory Fortified Blank									
Aluminum	0.0495	mg/L	0.0010	97	85	115			
Arsenic	0.0501	mg/L	0.0010	100	85	115			
Barium	0.0472	mg/L	0.0010	95	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Copper	0.0507	mg/L	0.0010	101	85	115			
Lead	0.0498	mg/L	0.0010	100	85	115			
Manganese	0.0495	mg/L	0.0010	99	85	115			
Mercury	0.00501	mg/L	0.0010	100	85	115			
Molybdenum	0.0513	mg/L	0.0010	102	85	115			
Nickel	0.0508	mg/L	0.0010	101	85	115			
Selenium	0.0500	mg/L	0.0010	100	85	115			
Silver	0.0202	mg/L	0.0010	101	85	115			
Thorium 232	0.0490	mg/L	0.0010	98	85	115			
Uranium	0.0491	mg/L	0.00030	98	85	115			
Vanadium	0.0498	mg/L	0.0010	100	85	115			
Zinc	0.0523	mg/L	0.0021	100	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/10/07
Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R90947		
Sample ID: LRB	Method Blank		Run: SUB-C90947			10/08/07 12:54			
Aluminum	0.001	mg/L	0.0002						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	4E-05	mg/L	2E-05						
Manganese	ND	mg/L	3E-05						
Mercury	4E-05	mg/L	6E-06						
Molybdenum	0.0004	mg/L	7E-05						
Nickel	0.0002	mg/L	8E-05						
Selenium	ND	mg/L	0.0004						
Silver	ND	mg/L	3E-05						
Thorium 232	0.0001	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	9E-05						
Zinc	ND	mg/L	0.002						
Sample ID: LFB							10/08/07 13:02		
		Laboratory Fortified Blank		Run: SUB-C90947					
Aluminum	0.0543	mg/L	0.0010	106	85	115			
Arsenic	0.0513	mg/L	0.0010	103	85	115			
Barium	0.0517	mg/L	0.0010	103	85	115			
Cadmium	0.0517	mg/L	0.0010	103	85	115			
Copper	0.0525	mg/L	0.0010	105	85	115			
Lead	0.0521	mg/L	0.0010	104	85	115			
Manganese	0.0528	mg/L	0.0010	106	85	115			
Mercury	0.00513	mg/L	0.0010	102	85	115			
Molybdenum	0.0516	mg/L	0.0010	103	85	115			
Nickel	0.0531	mg/L	0.0010	106	85	115			
Selenium	0.0511	mg/L	0.0010	102	85	115			
Silver	0.0200	mg/L	0.0010	100	85	115			
Thorium 232	0.0514	mg/L	0.0010	102	85	115			
Uranium	0.0513	mg/L	0.00030	103	85	115			
Vanadium	0.0523	mg/L	0.0010	105	85	115			
Zinc	0.0507	mg/L	0.0021	101	85	115			
Sample ID: C07091372-007EMS4							10/09/07 05:48		
		Post Digestion Spike		Run: SUB-C90947					
Aluminum	0.561	mg/L	0.10	109	70	130			
Arsenic	0.513	mg/L	0.0016	103	70	130			
Barium	0.524	mg/L	0.10	101	70	130			
Cadmium	0.499	mg/L	0.010	100	70	130			
Copper	0.526	mg/L	0.010	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/10/07
 Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R90947		
Sample ID: C07091372-007EMS4	Post Digestion Spike			Run: SUB-C90947			10/09/07 05:48		
Lead	0.518	mg/L	0.050	103	70	130			
Manganese	1.34	mg/L	0.010	103	70	130			
Mercury	0.0525	mg/L	0.0010	105	70	130			
Molybdenum	0.531	mg/L	0.10	105	70	130			
Nickel	0.747	mg/L	0.050	99	70	130			
Selenium	0.885	mg/L	0.0040	106	70	130			
Thorium 232	0.532	mg/L	0.0010	106	70	130			
Uranium	0.923	mg/L	0.00035	114	70	130			
Vanadium	0.507	mg/L	0.10	101	70	130			
Sample ID: C07091372-007EMSD4	Post Digestion Spike Duplicate			Run: SUB-C90947			10/09/07 05:55		
Aluminum	0.552	mg/L	0.10	108	70	130	1.5	20	
Arsenic	0.504	mg/L	0.0016	101	70	130	1.7	20	
Barium	0.519	mg/L	0.10	100	70	130	1.0	20	
Cadmium	0.496	mg/L	0.010	99	70	130	0.6	20	
Copper	0.530	mg/L	0.010	99	70	130	0.7	20	
Lead	0.508	mg/L	0.050	101	70	130	2.0	20	
Manganese	1.33	mg/L	0.010	101	70	130	0.7	20	
Mercury	0.0528	mg/L	0.0010	106	70	130	0.5	20	
Molybdenum	0.535	mg/L	0.10	106	70	130	0.7	20	
Nickel	0.750	mg/L	0.050	99	70	130	0.4	20	
Selenium	0.875	mg/L	0.0040	104	70	130	1.2	20	
Thorium 232	0.533	mg/L	0.0010	107	70	130	0.3	20	
Uranium	0.915	mg/L	0.00035	112	70	130	0.9	20	
Vanadium	0.501	mg/L	0.10	100	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/10/07
 Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R31616		
Sample ID: LFB0709285802-3	Laboratory Fortified Blank					Run: DIONEX_070928A	09/28/07 21:11		
Chloride	4.70	mg/L	0.50	94	90	110			
Fluoride	2.01	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.39	mg/L	0.10	96	90	110			
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	90	110			
Sample ID: LFB0709285802-4	Laboratory Fortified Blank					Run: DIONEX_070928A	09/28/07 21:27		
Nitrogen, Nitrate as N	2.68	mg/L	0.10	107	90	110			
Sample ID: R07100002-001AMS	Sample Matrix Spike					Run: DIONEX_070928A	09/29/07 20:57		
Chloride	97.4	mg/L	0.50		80	120			A
Fluoride	2.27	mg/L	0.10	91	80	120			
Nitrogen, Nitrate as N	2.23	mg/L	0.10	89	80	120			
Nitrogen, Nitrite as N	3.66	mg/L	0.10	146	80	120			S
Sample ID: R07100002-001AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_070928A	09/29/07 21:13		
Chloride	96.9	mg/L	0.50		80	120	0.4	10	A
Fluoride	2.24	mg/L	0.10	89	80	120	1.3	10	
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	80	120	3.5	10	
Nitrogen, Nitrite as N	3.85	mg/L	0.10	154	80	120	5.1	10	S
Method: E300.0							Batch: R31638		
Sample ID: LFB0710013150-3	Laboratory Fortified Blank					Run: DIONEX_071001A	10/01/07 20:24		
Chloride	4.94	mg/L	0.50	99	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: LFB0710013150-4	Laboratory Fortified Blank					Run: DIONEX_071001A	10/01/07 20:40		
Chloride	4.65	mg/L	0.50	93	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R07090385-001AMS	Sample Matrix Spike					Run: DIONEX_071001A	10/02/07 03:47		
Chloride	106	mg/L	0.80	93	80	120			
Sulfate	1610	mg/L	14		80	120			A
Sample ID: R07090385-001AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071001A	10/02/07 04:03		
Chloride	105	mg/L	0.80	91	80	120	1.1	10	
Sulfate	1590	mg/L	14		80	120	1.2	10	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/10/07
Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0330		
Sample ID: MB-GrAB-0330	Method Blank								
Gross Alpha	ND	pCi/L	1						10/10/07 22:43
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0330	Laboratory Control Sample								
Gross Alpha	300	pCi/L	1.0	104	70	130			10/10/07 22:43
Sample ID: Cs137-GrAB-0330	Laboratory Control Sample								
Gross Beta	90	pCi/L	2.0	98	70	130			10/10/07 22:43
Sample ID: C07090855-001AMS	Sample Matrix Spike								
Gross Alpha	400	pCi/L	1.0	72	70	130			10/10/07 22:43
Sample ID: C07090855-001AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	400	pCi/L	1.0	70	70	130	3.2	13.9	10/10/07 22:43
Sample ID: C07090855-001AMS	Sample Matrix Spike								
Gross Beta	200	pCi/L	2.0	88	70	130			10/10/07 22:43
Sample ID: C07090855-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	200	pCi/L	2.0	95	70	130	8.3	15.6	10/10/07 22:43

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/10/07
 Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R90863		
Sample ID: LCS-R90863	Laboratory Control Sample				Run: SUB-C90863		10/04/07 15:30		
Americium 241	730	pCi/L	20	90	70	130			
Cesium 137	1100	pCi/L	20	80	70	130			
Potassium 40	7200	pCi/L	20	108	70	130			
Sample ID: MB-R90863	Method Blank				Run: SUB-C90863		10/04/07 15:30		
Uranium 238	ND	pCi/L	20						
Actinium 228	ND	pCi/L	20						
Americium 241	ND	pCi/L	20						
Barium 133	ND	pCi/L	20						
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 226	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Sample ID: R07090384-005E	Sample Duplicate				Run: SUB-C90863		10/04/07 15:30		
Gross Gamma	1100	pCi/L	20				9.4	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/10/07
 Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2347		
Sample ID: R07090384-001D Radium 226	Sample Matrix Spike 15	pCi/L	0.20	85	70	130			10/10/07 16:32
									Run: SUB-C91100
Sample ID: R07090384-001D Radium 226	Sample Matrix Spike Duplicate 18	pCi/L	0.20	113	70	130	22	30.7	10/10/07 16:32
									Run: SUB-C91100
Sample ID: MB-RA226-2347 Radium 226	Method Blank ND	pCi/L	0.2						10/11/07 11:16
									Run: SUB-C91100
Sample ID: LCS-RA226-2347 Radium 226	Laboratory Control Sample 16	pCi/L	0.20	129	70	130			10/11/07 11:16
									Run: SUB-C91100
Method: E903.0							Batch: C_RA226-2384		
Sample ID: C07100798-002AMS Radium 226	Sample Matrix Spike 48	pCi/L	0.20	92	70	130			10/30/07 15:07
									Run: SUB-C92054
	- MS and MSD were inadvertently spiked at double the standard amount.								
Sample ID: C07100798-002AMSD Radium 226	Sample Matrix Spike Duplicate 60	pCi/L	0.20	120	70	130	22	21	10/30/07 15:07
									Run: SUB-C92054
	- MS and MSD were inadvertently spiked at double the standard amount. - The RPD for the spike is high. The individual Spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.								
Sample ID: MB-RA226-2384 Radium 226	Method Blank ND	pCi/L	0.2						10/30/07 16:33
									Run: SUB-C92054
Sample ID: LCS-RA226-2384 Radium 226	Laboratory Control Sample 13	pCi/L	0.20	104	70	130			10/30/07 16:33
									Run: SUB-C92054
Method: E907.0							Batch: C_R92301		
Sample ID: LCS-R92301 Thorium 230	Laboratory Control Sample 5.20	pCi/L	0.20	88	70	130			10/29/07 13:00
									Run: SUB-C92301
Sample ID: C07100216-001EDUP Thorium 230	Sample Duplicate ND	pCi/L	0.20				0.0	30	10/29/07 13:00
									Run: SUB-C92301
Sample ID: C07100216-003EMS Thorium 230	Sample Matrix Spike 52.4	pCi/L	0.20	93	70	130			10/29/07 13:00
									Run: SUB-C92301
Sample ID: MB-R92301 Thorium 230	Method Blank ND	pCi/L	0.2						10/29/07 13:00
									Run: SUB-C92301

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/10/07
 Work Order: R07090384

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R92443		
Sample ID: LCS-R92443	Laboratory Control Sample				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	6	pCi/L	0.20	97	70	130			
Sample ID: C07100343-003EMS	Sample Matrix Spike				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	20	pCi/L	0.20	105	70	130			
Sample ID: C07100343-003EMSD	Sample Matrix Spike Duplicate				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	20	pCi/L	0.20	106	70	130	0.5	30	
Sample ID: MB-R92443	Method Blank				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	ND	pCi/L	0.2						
Method: E909.0M							Batch: C_R92396		
Sample ID: C07100216-002EDUP	Sample Duplicate				Run: SUB-C92396			10/25/07 11:25	
Lead 210	ND	pCi/L	1.0				0.0	30	
Sample ID: C07100214-001EMS	Sample Matrix Spike				Run: SUB-C92396			10/25/07 11:25	
Lead 210	480	pCi/L	1.0	118	70	130			
Sample ID: MB-R92396	Method Blank				Run: SUB-C92396			10/25/07 11:25	
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92396	Laboratory Control Sample				Run: SUB-C92396			10/25/07 11:25	
Lead 210	94	pCi/L	1.0	116	70	130			
Method: RMO-3008							Batch: C_R92111		
Sample ID: MB-R92111	Method Blank				Run: SUB-C92111			10/29/07 13:00	
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R92111	Laboratory Control Sample				Run: SUB-C92111			10/29/07 13:00	
Polonium 210	17	pCi/L	1.0	78	70	130			
Sample ID: C07100214-005EMS	Sample Matrix Spike				Run: SUB-C92111			10/29/07 13:00	
Polonium 210	170	pCi/L	1.0	77	70	130			
Sample ID: C07100214-005EMSD	Sample Matrix Spike Duplicate				Run: SUB-C92111			10/29/07 13:00	
Polonium 210	170	pCi/L	1.0	77	70	130	0.3	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: **RESPEC** Project Name, PWS #, Permit #, Etc.: **PowerTech Dewey-Burdock**

Report Mail Address: **Cory Foreman** Contact Name, Phone, Fax, E-mail: **Eric Kiantz**

Invoice Address: **394-6565** Invoice Contact & Phone #: **394-6436** Purchase Order #: **ELI Quote #:**

Report Required For: POTW/WWTP DW Other _____

Special Report Formats - ELI must be notified prior to sample submittal for the following:
 NELAC A2LA Level IV Other _____

EDD/EDT Format _____

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	Matrix	ANALYSIS REQUESTED		Notify ELI prior to RUSH sample submittal for additional charges and scheduling	Receipt Temp Cooler ID(s)
				Number of Containers	Comments:		
1 DewBurd GW 18 (Gardens)	9/26/07	10:39	Groundwater	SEE ATTACHED		Groundwater - Bottle Set	4.6 °C am
2 DewBurd CHRO1	9/26/07	12:01	Surface water			Bottle Set CHRO1	
3 DewBurd BVCO1	9/26/07	12:16	Surface water			Bottle Set BVCO1	
4 DewBurd GW02 (Pump)	9/26/07	14:55	Groundwater			Bottle Set GW02	
5 DewBurd GW08 (Empty)	9/26/07	14:33	Groundwater			Bottle Set GW08	
6 DewBurd GW631	9/26/07	16:40	Groundwater			Bottle Set GW631	
7 DewBurd GW635	9/26/07	18:08	Groundwater			Bottle Set GW635	
8 DewBurd Sub 08	9/26/07	18:40	Surface water			Bottle Set Sub 08	
9 DewBurd CHRO5	9/28/07	15:30	Surface water			Surface water	
10							

Relinquished by: **GPZ** Date/Time: **9/27/07 9:54** Shipped by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____

Sample Disposal: _____ Return to client: _____ Lab Disposal: _____

Sample Type: _____ # of fractions: _____

Custody Record MUST be Signed

LABORATORY USE ONLY

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

December 19, 2007

Cory Freeman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R07090385 Quote ID: R286

Project Name: Edgemont

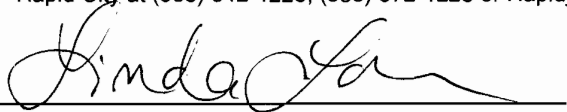
Energy Laboratories Inc. received the following 5 samples from RESPEC Inc on 9/28/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07090385-001	DewBurd GW619	09/27/07 17:45	09/28/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Anions by Ion Chromatography Uranium, Suspended Nitrogen, Ammonia pH Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Solids, Total Dissolved
R07090385-002	Dew Burd GW 16	09/27/07 19:18	09/28/07	Aqueous	Same As Above
R07090385-003	Dew Burd GW 4002A	09/27/07 14:35	09/28/07	Aqueous	Same As Above
R07090385-004	Dew Burd GW 4002B	09/27/07 14:39	09/28/07	Aqueous	Same As Above
R07090385-005	Dew Burd GW 13	09/27/07 15:45	09/28/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: 



Date: 19-Dec-07

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R07090385

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report, and
- Suspended radiochemical data was determined from the subtraction of the dissolved parameter from the total parameter.

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090385-001
 Client Sample ID: DewBurd GW619

Report Date: 12/19/07
 Collection Date: 09/27/07 17:45
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	140	mg/L		5		1	A2320 B	10/04/07 16:58/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 16:58/sn
Bicarbonate as HCO3	171	mg/L		5		1	A2320 B	10/04/07 16:58/sn
Calcium	304	mg/L	D	1		10	E200.7	10/09/07 19:16/eli-c
Magnesium	106	mg/L		0.5		10	E200.7	10/09/07 19:16/eli-c
Potassium	16.9	mg/L		0.5		2	E200.7	10/09/07 21:51/eli-c
Silica	7.5	mg/L		0.5		2	E200.7	10/09/07 21:51/eli-c
Sodium	80	mg/L	D	8		10	E200.7	10/09/07 19:16/eli-c
Chloride	9	mg/L		1		1	E300.0	09/28/07 23:06/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	09/28/07 23:06/jmh
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	09/28/07 17:34/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/28/07 23:06/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/28/07 23:06/jmh
Sulfate	1440	mg/L	D	10		20	E300.0	10/02/07 03:30/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2270	umhos/cm		5		1	A2510 B	10/02/07 18:39/jmh
pH	7.03	s.u.		0.01		1	A4500-H B	10/02/07 18:39/jmh
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C	10/02/07 13:05/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/09/07 02:10/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/09/07 02:10/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/07 02:10/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/09/07 21:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/07 02:10/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/07 02:10/eli-c
Copper	0.08	mg/L		0.01		1	E200.8	10/09/07 02:10/eli-c
Iron	1.95	mg/L		0.03		2	E200.7	10/09/07 21:51/eli-c
Lead	0.008	mg/L		0.001		1	E200.8	10/09/07 02:10/eli-c
Manganese	1.51	mg/L		0.01		1	E200.8	10/09/07 02:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/09/07 02:10/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/07 02:10/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/07 02:10/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/09/07 02:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/07 02:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/09/07 02:10/eli-c
Uranium	0.0020	mg/L		0.0003		1	E200.8	10/09/07 02:10/eli-c

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090385-001
 Client Sample ID: DewBurd GW619

Report Date: 12/19/07
 Collection Date: 09/27/07 17:45
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	10/09/07 02:10/eli-c
Zinc	0.11	mg/L		0.01			1	E200.8	10/09/07 02:10/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.0002			1	E200.8	10/09/07 17:12/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	367	pCi/L		1.0			1	E900.0	10/14/07 01:13/eli-c
Gross Alpha precision (±)	5.7	pCi/L					1	E900.0	10/14/07 01:13/eli-c
Gross Beta	117	pCi/L		2.0			1	E900.0	10/14/07 01:13/eli-c
Gross Beta precision (±)	5.0	pCi/L					1	E900.0	10/14/07 01:13/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	120	pCi/L		0.2			1	E903.0	10/16/07 15:03/eli-c
Radium 226 precision (±)	3.9	pCi/L					1	E903.0	10/16/07 15:03/eli-c
Thorium 230	0.5	pCi/L		0.2			1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	10/29/07 15:00/eli-c
Gross Gamma	120	pCi/L		20			1	E901.1	10/18/07 10:39/eli-c
Gross Gamma precision (±)	36	pCi/L					1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/12/07 14:12/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/12/07 14:12/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/12/07 14:12/eli-c
RADIONUCLIDES - TOTAL									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	120	pCi/L		0.2			1	E903.0	10/30/07 15:07/eli-c
Radium 226 precision (±)	10.9	pCi/L					1	E903.0	10/30/07 15:07/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/29/07 11:00/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.34	%					1	A1030 E	12/11/07 16:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090385-001
Client Sample ID: DewBurd GW619

Report Date: 12/19/07
Collection Date: 09/27/07 17:45
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
Anions	28.7	meq/L					1	A1030 E	12/11/07 16:15/eli-c
Cations	27.9	meq/L					1	A1030 E	12/11/07 16:15/eli-c
Solids, Total Dissolved Calculated	1830	mg/L					1	A1030 E	12/11/07 16:15/eli-c
TDS Balance (0.80 - 1.20)	1.14	dec. %					1	A1030 E	12/11/07 16:15/eli-c
- Ion balance achieved using Sulfate from E200.7.									

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090385-002
 Client Sample ID: Dew Burd GW 16

Report Date: 12/19/07
 Collection Date: 09/27/07 19:18
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	158	mg/L		5			1	A2320 B	10/04/07 17:01/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/04/07 17:01/sn
Bicarbonate as HCO3	193	mg/L		5			1	A2320 B	10/04/07 17:01/sn
Calcium	108	mg/L	D	1			10	E200.7	10/09/07 19:46/eli-c
Magnesium	40.7	mg/L		0.5			10	E200.7	10/09/07 19:46/eli-c
Potassium	16.6	mg/L		0.5			2	E200.7	10/09/07 21:54/eli-c
Silica	7.3	mg/L		0.5			2	E200.7	10/09/07 21:54/eli-c
Sodium	44	mg/L	D	8			10	E200.7	10/09/07 19:46/eli-c
Chloride	5	mg/L		1			1	E300.0	09/28/07 23:22/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	09/28/07 23:22/jmh
Nitrogen, Ammonia as N	0.4	mg/L		0.1			1	A4500-NH3 G	09/28/07 17:35/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/28/07 23:22/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/28/07 23:22/jmh
Sulfate	448	mg/L	D	7			10	E300.0	10/02/07 04:20/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1080	umhos/cm		5			1	A2510 B	10/02/07 18:40/jmh
pH	7.43	s.u.		0.01			1	A4500-H B	10/02/07 18:41/jmh
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5			1	A2540 C	10/02/07 13:05/sn
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	10/09/07 02:50/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	10/09/07 02:50/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/09/07 02:50/eli-c
Boron	ND	mg/L		0.1			2	E200.7	10/09/07 21:54/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/09/07 02:50/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/09/07 02:50/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/09/07 02:50/eli-c
Iron	ND	mg/L		0.03			2	E200.7	10/09/07 21:54/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/09/07 02:50/eli-c
Manganese	0.16	mg/L		0.01			1	E200.8	10/09/07 02:50/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/09/07 02:50/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/09/07 02:50/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/09/07 02:50/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/09/07 02:50/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/09/07 02:50/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/09/07 02:50/eli-c
Uranium	0.0021	mg/L		0.0003			1	E200.8	10/09/07 02:50/eli-c

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090385-002
 Client Sample ID: Dew Burd GW 16

Report Date: 12/19/07
 Collection Date: 09/27/07 19:18
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	10/09/07 02:50/eli-c
Zinc	0.04	mg/L		0.01		1	E200.8	10/09/07 02:50/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.0002		1	E200.8	10/09/07 17:18/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	62.7	pCi/L		1.0		1	E900.0	10/14/07 01:13/eli-c
Gross Alpha precision (±)	2.1	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Gross Beta	33.1	pCi/L		2.0		1	E900.0	10/14/07 01:13/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	26.2	pCi/L		0.2		1	E903.0	10/16/07 15:03/eli-c
Radium 226 precision (±)	1.9	pCi/L				1	E903.0	10/16/07 15:03/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	10/29/07 15:00/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/12/07 14:12/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/12/07 14:12/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/12/07 14:12/eli-c
RADIONUCLIDES - TOTAL								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	17.4	pCi/L		0.2		1	E903.0	10/30/07 15:07/eli-c
Radium 226 precision (±)	4.2	pCi/L				1	E903.0	10/30/07 15:07/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/29/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.85	%				1	A1030 E	12/11/07 16:20/eli-c
Anions	11.8	meq/L				1	A1030 E	12/11/07 16:20/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090385-002
Client Sample ID: Dew Burd GW 16

Report Date: 12/19/07
Collection Date: 09/27/07 19:18
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Cations	11.1	meq/L				1	A1030 E	12/11/07 16:20/eli-c
Solids, Total Dissolved Calculated	715	mg/L				1	A1030 E	12/11/07 16:20/eli-c
TDS Balance (0.80 - 1.20)	1.14	dec. %				1	A1030 E	12/11/07 16:20/eli-c
- Ion balance achieved using Sulfate from E200.7.								

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090385-003
 Client Sample ID: Dew Burd GW 4002A

Report Date: 12/19/07
 Collection Date: 09/27/07 14:35
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	140	mg/L		5			1	A2320 B	10/04/07 17:14/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/04/07 17:14/sn
Bicarbonate as HCO3	171	mg/L		5			1	A2320 B	10/04/07 17:14/sn
Calcium	36.8	mg/L		0.5			2	E200.7	10/09/07 21:57/eli-c
Magnesium	11.9	mg/L		0.5			2	E200.7	10/09/07 21:57/eli-c
Potassium	7.2	mg/L		0.5			2	E200.7	10/09/07 21:57/eli-c
Silica	6.6	mg/L		0.5			2	E200.7	10/09/07 21:57/eli-c
Sodium	170	mg/L	D	2			2	E200.7	10/09/07 21:57/eli-c
Chloride	7	mg/L		1			1	E300.0	09/28/07 23:39/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	09/28/07 23:39/jmh
Nitrogen, Ammonia as N	0.3	mg/L		0.1			1	A4500-NH3 G	09/28/07 17:37/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/28/07 23:39/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/28/07 23:39/jmh
Sulfate	454	mg/L	D	7			10	E300.0	10/02/07 04:36/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1190	umhos/cm		5			1	A2510 B	10/02/07 18:42/jmh
pH	7.81	s.u.		0.01			1	A4500-H B	10/02/07 18:42/jmh
Solids, Total Dissolved TDS @ 180 C	820	mg/L		5			1	A2540 C	10/02/07 13:05/sn
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	10/09/07 02:57/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/09/07 02:57/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/09/07 02:57/eli-c
Boron	ND	mg/L		0.1			2	E200.7	10/09/07 21:57/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/09/07 02:57/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/09/07 02:57/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/09/07 02:57/eli-c
Iron	ND	mg/L		0.03			2	E200.7	10/09/07 21:57/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/09/07 02:57/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	10/09/07 02:57/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/09/07 02:57/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/09/07 02:57/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/09/07 02:57/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/09/07 02:57/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/09/07 02:57/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/09/07 02:57/eli-c
Uranium	0.0026	mg/L		0.0003			1	E200.8	10/09/07 02:57/eli-c

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090385-003
 Client Sample ID: Dew Burd GW 4002A

Report Date: 12/19/07
 Collection Date: 09/27/07 14:35
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	10/09/07 02:57/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/09/07 02:57/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.0002		1	E200.8	10/09/07 17:25/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	120	pCi/L		1.0		1	E900.0	10/14/07 01:13/eli-c
Gross Alpha precision (±)	3.3	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Gross Beta	45.5	pCi/L		2.0		1	E900.0	10/14/07 01:13/eli-c
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Lead 210	2.0	pCi/L		1.0		1	E909.0M	10/26/07 09:00/eli-c
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	63.6	pCi/L		0.2		1	E903.0	10/16/07 15:03/eli-c
Radium 226 precision (±)	2.9	pCi/L				1	E903.0	10/16/07 15:03/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	10/29/07 15:00/eli-c
Gross Gamma	120	pCi/L		20		1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	9.7	pCi/L		1.0		1	E909.0M	12/12/07 14:12/eli-c
Lead 210 precision (±)	8.6	pCi/L				1	E909.0M	12/12/07 14:12/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/12/07 14:12/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/12/07 14:12/eli-c
RADIONUCLIDES - TOTAL								
Lead 210	12	pCi/L		1.0		1	E909.0M	10/26/07 09:00/eli-c
Lead 210 precision (±)	8.5	pCi/L				1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	62.7	pCi/L		0.2		1	E903.0	10/30/07 15:07/eli-c
Radium 226 precision (±)	8.0	pCi/L				1	E903.0	10/30/07 15:07/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/29/07 11:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090385-003
 Client Sample ID: Dew Burd GW 4002A

Report Date: 12/19/07
 Collection Date: 09/27/07 14:35
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	-4.10	%					1	A1030 E 12/11/07 16:22/eli-c
Anions	11.3	meq/L					1	A1030 E 12/11/07 16:22/eli-c
Cations	10.4	meq/L					1	A1030 E 12/11/07 16:22/eli-c
Solids, Total Dissolved Calculated	716	mg/L					1	A1030 E 12/11/07 16:22/eli-c
TDS Balance (0.80 - 1.20)	1.15	dec. %					1	A1030 E 12/11/07 16:22/eli-c
- Ion balance achieved using Sulfate from E200.7.								

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090385-004
 Client Sample ID: Dew Burd GW 4002B

Report Date: 12/19/07
 Collection Date: 09/27/07 14:39
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B	10/04/07 17:18/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 17:18/sn
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B	10/04/07 17:18/sn
Calcium	38.7	mg/L		0.5		2	E200.7	10/09/07 22:01/eli-c
Magnesium	12.4	mg/L		0.5		2	E200.7	10/09/07 22:01/eli-c
Potassium	7.3	mg/L		0.5		2	E200.7	10/09/07 22:01/eli-c
Silica	6.9	mg/L		0.5		2	E200.7	10/09/07 22:01/eli-c
Sodium	182	mg/L	D	2		2	E200.7	10/09/07 22:01/eli-c
Chloride	7	mg/L		1		1	E300.0	09/28/07 23:55/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	09/28/07 23:55/jmh
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	09/28/07 17:38/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/28/07 23:55/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/28/07 23:55/jmh
Sulfate	453	mg/L	D	7		10	E300.0	10/02/07 04:53/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1210	umhos/cm		5		1	A2510 B	10/02/07 18:43/jmh
pH	7.85	s.u.		0.01		1	A4500-H B	10/02/07 18:44/jmh
Solids, Total Dissolved TDS @ 180 C	800	mg/L		5		1	A2540 C	10/02/07 13:05/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/09/07 03:04/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/09/07 03:04/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/07 03:04/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/09/07 22:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/07 03:04/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/07 03:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/09/07 03:04/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/09/07 22:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/09/07 03:04/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	10/09/07 03:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/09/07 03:04/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/07 03:04/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/07 03:04/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/09/07 03:04/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/07 03:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/09/07 03:04/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	10/09/07 03:04/eli-c

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090385-004
Client Sample ID: Dew Burd GW 4002B

Report Date: 12/19/07
Collection Date: 09/27/07 14:39
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	10/09/07 03:04/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/09/07 03:04/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.0002		1	E200.8	10/09/07 17:32/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	141	pCi/L		1.0		1	E900.0	10/15/07 05:56/eli-c
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	10/15/07 05:56/eli-c
Gross Beta	49.6	pCi/L		2.0		1	E900.0	10/15/07 05:56/eli-c
Gross Beta precision (±)	3.0	pCi/L				1	E900.0	10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	60.0	pCi/L		0.2		1	E903.0	10/16/07 15:03/eli-c
Radium 226 precision (±)	2.8	pCi/L				1	E903.0	10/16/07 15:03/eli-c
Thorium 230	0.6	pCi/L		0.2		1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	10/29/07 15:00/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/12/07 14:12/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	19.4	pCi/L		0.2		1	E903.0	12/12/07 14:12/eli-c
Radium 226 precision (±)	9.2	pCi/L				1	E903.0	12/12/07 14:12/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/12/07 14:12/eli-c
RADIONUCLIDES - TOTAL								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	79.4	pCi/L		0.2		1	E903.0	10/30/07 15:07/eli-c
Radium 226 precision (±)	8.8	pCi/L				1	E903.0	10/30/07 15:07/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/29/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.215	%				1	A1030 E	12/11/07 16:23/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090385-004
Client Sample ID: Dew Burd GW 4002B

Report Date: 12/19/07
Collection Date: 09/27/07 14:39
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Anions	11.0	meq/L				1	A1030 E	12/11/07 16:23/eli-c
Cations	11.1	meq/L				1	A1030 E	12/11/07 16:23/eli-c
Solids, Total Dissolved Calculated	717	mg/L				1	A1030 E	12/11/07 16:23/eli-c
TDS Balance (0.80 - 1.20)	1.12	dec. %				1	A1030 E	12/11/07 16:23/eli-c
- Ion balance achieved using Sulfate from E200.7.								

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090385-005
 Client Sample ID: Dew Burd GW 13

Report Date: 12/19/07
 Collection Date: 09/27/07 15:45
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	10/04/07 17:19/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 17:19/sn
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	10/04/07 17:19/sn
Calcium	57.4	mg/L		0.5		2	E200.7	10/09/07 22:04/eli-c
Magnesium	21.0	mg/L		0.5		2	E200.7	10/09/07 22:04/eli-c
Potassium	11.3	mg/L		0.5		2	E200.7	10/09/07 22:04/eli-c
Silica	7.7	mg/L		0.5		2	E200.7	10/09/07 22:04/eli-c
Sodium	163	mg/L	D	2		2	E200.7	10/09/07 22:04/eli-c
Chloride	11	mg/L		1		1	E300.0	09/29/07 00:12/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/29/07 00:12/jmh
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G	09/28/07 17:39/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 00:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/29/07 00:12/jmh
Sulfate	488	mg/L	D	7		10	E300.0	10/02/07 05:09/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1280	umhos/cm		5		1	A2510 B	10/02/07 18:45/jmh
pH	7.83	s.u.		0.01		1	A4500-H B	10/02/07 18:45/jmh
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5		1	A2540 C	10/02/07 13:05/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/09/07 03:10/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/09/07 03:10/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/07 03:10/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/09/07 22:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/07 03:10/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/07 03:10/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/09/07 03:10/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/09/07 22:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/09/07 03:10/eli-c
Manganese	0.10	mg/L		0.01		1	E200.8	10/09/07 03:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/09/07 03:10/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/07 03:10/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/07 03:10/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/09/07 03:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/07 03:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/09/07 03:10/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/09/07 03:10/eli-c

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090385-005
 Client Sample ID: Dew Burd GW 13

Report Date: 12/19/07
 Collection Date: 09/27/07 15:45
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	10/09/07 03:10/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/09/07 03:10/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.0002			1	E200.8	10/09/07 17:38/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	8.9	pCi/L		1.0			1	E900.0	10/15/07 05:56/eli-c
Gross Alpha precision (±)	1.2	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Gross Beta	9.6	pCi/L		2.0			1	E900.0	10/15/07 05:56/eli-c
Gross Beta precision (±)	2.4	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	1.8	pCi/L		0.2			1	E903.0	10/16/07 15:03/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	10/16/07 15:03/eli-c
Thorium 230	0.4	pCi/L		0.2			1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	10/29/07 15:00/eli-c
Gross Gamma	ND	pCi/L		20			1	E901.1	10/18/07 10:39/eli-c
Gross Gamma precision (±)	ND	pCi/L					1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/12/07 14:12/eli-c
Polonium 210	5.2	pCi/L		1.0			1	RMO-3008	10/30/07 14:00/eli-c
Polonium 210 precision (±)	4.6	pCi/L					1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/12/07 14:12/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/12/07 14:12/eli-c
RADIONUCLIDES - TOTAL									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	5.2	pCi/L		1.0			1	RMO-3008	10/30/07 14:00/eli-c
Polonium 210 precision (±)	4.6	pCi/L					1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	1.1	pCi/L		0.2			1	E903.0	10/30/07 15:07/eli-c
Radium 226 precision (±)	1.1	pCi/L					1	E903.0	10/30/07 15:07/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/29/07 11:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07090385-005
 Client Sample ID: Dew Burd GW 13

Report Date: 12/19/07
 Collection Date: 09/27/07 15:45
 Date Received: 09/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	-1.26	%					1	A1030 E 12/11/07 16:25/eli-c
Anions	12.3	meq/L					1	A1030 E 12/11/07 16:25/eli-c
Cations	12.0	meq/L					1	A1030 E 12/11/07 16:25/eli-c
Solids, Total Dissolved Calculated	781	mg/L					1	A1030 E 12/11/07 16:25/eli-c
TDS Balance (0.80 - 1.20)	1.14	dec. %					1	A1030 E 12/11/07 16:25/eli-c
- Ion balance achieved using Sulfate from E200.7.								

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090385

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 071004A-ALK-SEL-W		
Sample ID: MBLK1_071004A	Method Blank					Run: PH_COND1-R_071004A			10/04/07 15:38
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_071004A	Laboratory Control Sample					Run: PH_COND1-R_071004A			10/04/07 15:44
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: R07090385-002AMS	Sample Matrix Spike					Run: PH_COND1-R_071004A			10/04/07 17:05
Alkalinity, Total as CaCO3	272	mg/L	5.0	108	80	120			
Sample ID: R07090385-003ADUP	Sample Duplicate					Run: PH_COND1-R_071004A			10/04/07 17:16
Alkalinity, Total as CaCO3	142	mg/L	5.0				1.4	10	
Carbonate as CO3	ND	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	173	mg/L	5.0				1.4	10	
Method: A2510 B							Batch: 071002_1_COND-PROBE-W		
Sample ID: LCS1-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:11
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:12
Conductivity @ 25 C	4920	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071002	Laboratory Control Sample					Run: PH_COND2-R_071002A			10/02/07 18:13
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071002	Method Blank					Run: PH_COND2-R_071002A			10/02/07 18:13
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C							Batch: 071002A-SLDS-TDS-W		
Sample ID: MBLK1_071002A	Method Blank					Run: BAL-4-R_071002A			10/02/07 13:16
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_071002A	Laboratory Control Sample					Run: BAL-4-R_071002A			10/02/07 13:16
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: R07090389-004BMS	Sample Matrix Spike					Run: BAL-4-R_071002A			10/02/07 13:05
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	106	80	120			
Sample ID: R07090389-004BMSSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_071002A			10/02/07 13:06
Solids, Total Dissolved TDS @ 180 C	420	mg/L	5.0	99	80	120	3.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090385

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 071002_1_PH-W		
Sample ID: LCS_pH-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A		10/02/07 18:08		
pH	6.85	s.u.	0.010	100	98.55	101.45			
Method: A4500-NH3 G							Batch: A2007-09-28_2_NH3_01		
Sample ID: MBLK-1	Method Blank				Run: TECHAA2-R_070928A		09/28/07 14:57		
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_070928A		09/28/07 15:00		
Nitrogen, Ammonia as N	0.27	mg/L	0.10	106	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_070928A		09/28/07 15:01		
Nitrogen, Ammonia as N	0.27	mg/L	0.10	107	90	110			
Sample ID: R07090384-002BMS	Sample Matrix Spike				Run: TECHAA2-R_070928A		09/28/07 17:30		
Nitrogen, Ammonia as N	0.33	mg/L	0.10	115	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090385

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R91017		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C91017			10/09/07 14:39		
Silica	1.9	mg/L	0.10	97	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	1.9	mg/L	0.030	96	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C91017			10/09/07 14:42		
Calcium	23	mg/L	0.50	90	85	125			
Magnesium	23	mg/L	0.50	92	85	125			
Potassium	25	mg/L	0.50	101	85	125			
Sodium	23	mg/L	0.76	90	85	125			
Sample ID: R07090385-001C	Sample Matrix Spike			Run: SUB-C91017			10/09/07 19:19		
Boron	9.11	mg/L	0.10	91	70	130			
Calcium	686	mg/L	1.0	76	70	130			
Iron	10.9	mg/L	0.046	89	70	130			
Magnesium	498	mg/L	0.50	79	70	130			
Potassium	1120	mg/L	0.50	92	70	130			
Silica	16.3	mg/L	0.20	84	70	130			
Sodium	489	mg/L	7.6	82	70	130			
Sample ID: R07090385-001C	Sample Matrix Spike Duplicate			Run: SUB-C91017			10/09/07 19:23		
Boron	9.33	mg/L	0.10	93	70	130	2.4	20	
Calcium	701	mg/L	1.0	79	70	130	2.2	20	
Iron	11.1	mg/L	0.046	91	70	130	1.5	20	
Magnesium	506	mg/L	0.50	80	70	130	1.5	20	
Potassium	1130	mg/L	0.50	92	70	130	0.3	20	
Silica	16.9	mg/L	0.20	89	70	130	3.5	20	
Sodium	488	mg/L	7.6	82	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07090385

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16384		
Sample ID: MB-16384	Method Blank			Run: SUB-C91005			10/09/07 19:47		
Mercury	ND	mg/L	6E-06						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS1-16384	Laboratory Control Sample			Run: SUB-C91005			10/09/07 19:53		
Uranium	0.019	mg/L	0.00030	95	80	120			
Sample ID: LCS-16384	Laboratory Control Sample			Run: SUB-C91005			10/09/07 20:00		
Uranium	0.49	mg/L	0.00032	98	85	115			
Sample ID: C07100330-003C MS4	Post Digestion Spike			Run: SUB-C91005			10/09/07 21:01		
Mercury	0.0055	mg/L	0.0010	79	70	130			
Uranium	0.073	mg/L	0.00030	99	70	130			
Sample ID: C07100330-003C MSD4	Post Digestion Spike Duplicate			Run: SUB-C91005			10/09/07 21:08		
Mercury	0.0055	mg/L	0.0010	78	70	130	1.1	20	
Uranium	0.072	mg/L	0.00030	98	70	130	1.0	20	
Method: E200.8							Batch: C_R90942		
Sample ID: LRB	Method Blank			Run: SUB-C90942			10/08/07 09:59		
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C90942			10/08/07 10:03		
Uranium	0.0522	mg/L	0.00030	104	85	115			
Sample ID: C07090701-001AMS	Sample Matrix Spike			Run: SUB-C90942			10/08/07 10:16		
Uranium	0.12	mg/L	0.0010	100	70	130			
Sample ID: C07090701-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C90942			10/08/07 10:20		
Uranium	0.12	mg/L	0.0010	100	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090385

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R31616		
Sample ID: LFB0709285802-3	Laboratory Fortified Blank			Run: DIONEX_070928A		09/28/07 21:11			
Chloride	4.70	mg/L	0.50	94	90	110			
Fluoride	2.01	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.39	mg/L	0.10	96	90	110			
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	90	110			
Sample ID: LFB0709285802-4	Laboratory Fortified Blank			Run: DIONEX_070928A		09/28/07 21:27			
Nitrogen, Nitrate as N	2.68	mg/L	0.10	107	90	110			
Sample ID: R07100002-001AMS	Sample Matrix Spike			Run: DIONEX_070928A		09/29/07 20:57			
Chloride	97.4	mg/L	0.50		80	120			A
Fluoride	2.27	mg/L	0.10	91	80	120			
Nitrogen, Nitrate as N	2.23	mg/L	0.10	89	80	120			
Nitrogen, Nitrite as N	3.66	mg/L	0.10	146	80	120			S
Sample ID: R07100002-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_070928A		09/29/07 21:13			
Chloride	96.9	mg/L	0.50		80	120	0.4	10	A
Fluoride	2.24	mg/L	0.10	89	80	120	1.3	10	
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	80	120	3.5	10	
Nitrogen, Nitrite as N	3.85	mg/L	0.10	154	80	120	5.1	10	S
Method: E300.0							Batch: R31638		
Sample ID: LFB0710013150-3	Laboratory Fortified Blank			Run: DIONEX_071001A		10/01/07 20:24			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: LFB0710013150-4	Laboratory Fortified Blank			Run: DIONEX_071001A		10/01/07 20:40			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R07090385-001AMS	Sample Matrix Spike			Run: DIONEX_071001A		10/02/07 03:47			
Sulfate	1610	mg/L	14		80	120			A
Sample ID: R07090385-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071001A		10/02/07 04:03			
Sulfate	1590	mg/L	14		80	120	1.2	10	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07090385

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0331		
Sample ID: RB-GrAB-0331	Method Blank				Run: SUB-C91233			10/13/07 02:39	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0331	Laboratory Control Sample				Run: SUB-C91233			10/13/07 02:39	
Gross Alpha	300	pCi/L	1.0	111	70	130			
Sample ID: C07091288-002AMS	Sample Matrix Spike				Run: SUB-C91233			10/13/07 02:39	
Gross Alpha	200	pCi/L	1.0	86	70	130			
Sample ID: C07091288-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C91233			10/13/07 02:39	
Gross Alpha	200	pCi/L	1.0	82	70	130	4.1	13.7	
Sample ID: Cs137-GrAB-0331	Laboratory Control Sample				Run: SUB-C91233			10/13/07 02:39	
Gross Beta	90	pCi/L	2.0	93	70	130			
Sample ID: C07091288-002AMS	Sample Matrix Spike				Run: SUB-C91233			10/13/07 02:39	
Gross Beta	90	pCi/L	2.0	90	70	130			
Sample ID: C07091288-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C91233			10/13/07 02:39	
Gross Beta	90	pCi/L	2.0	90	70	130	0.5	15.5	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090385

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R91554		
Sample ID: LCS-R91554	Laboratory Control Sample				Run: SUB-C91554		10/18/07 10:39		
Americium 241	760	pCi/L	20	93	70	130			
Cesium 137	1200	pCi/L	20	110	70	130			
Potassium 40	7200	pCi/L	20	108	70	130			
Sample ID: MB-R91554	Method Blank				Run: SUB-C91554		10/18/07 10:39		
Actinium 228	ND	pCi/L	20						
Americium 241	ND	pCi/L	20						
Barium 133	ND	pCi/L	20						
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Sample ID: R07100002-002E	Sample Duplicate				Run: SUB-C91554		10/18/07 10:39		
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 12/19/07

Project: Edgemont

Work Order: R07090385

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2361		
Sample ID: R07090385-005E	Sample Matrix Spike				Run: SUB-C91313				10/16/07 15:03
Radium 226	29	pCi/L	0.20	129	70	130			
Sample ID: R07090385-005E	Sample Matrix Spike Duplicate				Run: SUB-C91313				10/16/07 15:03
Radium 226	29	pCi/L	0.20	128	70	130	0.7	27.9	
Sample ID: MB-RA226-2361	Method Blank				Run: SUB-C91313				10/16/07 15:03
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2361	Laboratory Control Sample				Run: SUB-C91313				10/16/07 15:03
Radium 226	16	pCi/L	0.20	127	70	130			
Method: E903.0							Batch: C_RA226-2384		
Sample ID: C07100798-002AMS	Sample Matrix Spike				Run: SUB-C92054				10/30/07 15:07
Radium 226	48	pCi/L	0.20	92	70	130			
- MS and MSD were inadvertently spiked at double the standard amount.									
Sample ID: C07100798-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C92054				10/30/07 15:07
Radium 226	60	pCi/L	0.20	120	70	130	22	21	R
- MS and MSD were inadvertently spiked at double the standard amount.									
- The RPD for the spike is high. The individual Spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-RA226-2384	Method Blank				Run: SUB-C92054				10/30/07 16:33
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2384	Laboratory Control Sample				Run: SUB-C92054				10/30/07 16:33
Radium 226	13	pCi/L	0.20	104	70	130			
Method: E907.0							Batch: C_R92301		
Sample ID: LCS-R92301	Laboratory Control Sample				Run: SUB-C92301				10/29/07 11:00
Thorium 230	5.20	pCi/L	0.20	88	70	130			
Sample ID: C07100216-001EDUP	Sample Duplicate				Run: SUB-C92301				10/29/07 11:00
Thorium 230	ND	pCi/L	0.20				0.0	30	
Sample ID: C07100216-003EMS	Sample Matrix Spike				Run: SUB-C92301				10/29/07 11:00
Thorium 230	52.4	pCi/L	0.20	93	70	130			
Sample ID: MB-R92301	Method Blank				Run: SUB-C92301				10/29/07 11:00
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07090385

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R92443		
Sample ID: LCS-R92443	Laboratory Control Sample				Run: SUB-C92443		10/29/07 15:00		
Thorium 230	5.7	pCi/L	0.20	97	70	130			
Sample ID: R07090385-003E	Sample Matrix Spike				Run: SUB-C92443		10/29/07 15:00		
Thorium 230	21	pCi/L	0.20	105	70	130			
Sample ID: R07090385-003E	Sample Matrix Spike Duplicate				Run: SUB-C92443		10/29/07 15:00		
Thorium 230	21	pCi/L	0.20	106	70	130	0.5	30	
Sample ID: MB-R92443	Method Blank				Run: SUB-C92443		10/29/07 15:00		
Thorium 230	ND	pCi/L	0.2						
Method: E909.0M							Batch: C_R92528		
Sample ID: R07090385-001E	Sample Matrix Spike				Run: SUB-C92528		10/26/07 09:00		
Lead 210	340	pCi/L	1.0	84	70	130			
Sample ID: R07090385-001E	Sample Matrix Spike Duplicate				Run: SUB-C92528		10/26/07 09:00		
Lead 210	340	pCi/L	1.0	83	70	130	0.3	30	
Sample ID: MB-R92528	Method Blank				Run: SUB-C92528		10/26/07 09:00		
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92528	Laboratory Control Sample				Run: SUB-C92528		10/26/07 09:00		
Lead 210	66	pCi/L	1.0	82	70	130			
Method: RMO-3008							Batch: C_R92119		
Sample ID: MB-R92119	Method Blank				Run: SUB-C92119		10/30/07 14:00		
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R92119	Laboratory Control Sample				Run: SUB-C92119		10/30/07 14:00		
Polonium 210	19	pCi/L	1.0	83	70	130			
Sample ID: R07090385-005E	Sample Matrix Spike				Run: SUB-C92119		10/30/07 14:00		
Polonium 210	89	pCi/L	1.0	80	70	130			
Sample ID: R07090385-005E	Sample Matrix Spike Duplicate				Run: SUB-C92119		10/30/07 14:00		
Polonium 210	87	pCi/L	1.0	78	70	130	2.5	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side. Page ____ of ____

Company Name: RESPEC		Project Name, PWS #, Permit #, Etc.: Power Tech Dairy Burdock	
Report Mail Address:		Contact Name, Phone, Fax, E-mail: Cory Foreman	
Invoice Address:		Invoice Contact & Phone #:	
Report Required For: <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> DW <input type="checkbox"/>		Purchase Order #:	
Special Report Formats - EII must be notified prior to sample submittal for the following: NELAC <input type="checkbox"/> AZLA <input type="checkbox"/> Level IV <input type="checkbox"/> Other _____ EDD/EDT <input type="checkbox"/> Format _____		ELI Quota #:	
Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		Notify EII prior to RUSH sample submittal for additional charges and scheduling Comments:	
SEE ATTACHED		Normal Turnaround (TAT)	
SEE ATTACHED		RUSH Turnaround (TAT)	
Receipt Temp on 6.8 °C		Cooler ID(s)	
Custody Seal Y N		Intact Y N	
Signature Y N		Match Y N	
Lab ID		LABORATORY USE ONLY	

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED	LABORATORY USE ONLY
1 Dew Burd GW 619	9/27/07	17:45	W		R07090385-001
2 Dew Burd Sub 07	9/27/07	18:45	W		
3 Dew Burd Sub 02	9/27/07	16:45	W		
4 Dew Burd Sub 06	9/27/07	18:16	W		
5 Dew Burd GW 16	9/27/07	19:18	W		-002
6 Dew Burd GW 4002 A	9/27/07	14:35	W		-003
7 Dew Burd GW 4002 B	9/27/07	14:39	W		-004
8 Dew Burd GW 13	9/27/07	15:45	W		-005
9					
10					

Relinquished by: **Cory Foreman** Date/Time: **9/28/07 (9:37)**

Received by: **[Signature]** Date/Time: **9/28/07 09:40**

Shipped by: **[Signature]**

Sample Type: _____ # of fractions _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

December 19, 2007

Cory Freeman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07100002 Quote ID: R286
Project Name: Edgemont

Energy Laboratories Inc. received the following 10 samples from RESPEC Inc on 9/29/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07100002-001	DewBurd GW628	09/28/07 9:23	09/29/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Anions by Ion Chromatography Uranium, Suspended Nitrogen, Ammonia pH Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Solids, Total Dissolved
R07100002-002	DewBurd GW675	09/28/07 10:49	09/29/07	Aqueous	Same As Above
R07100002-003	DewBurd GW42	09/28/07 11:34	09/29/07	Aqueous	Same As Above
R07100002-004	DewBurd GW677	09/28/07 12:26	09/29/07	Aqueous	Same As Above
R07100002-005	DewBurd GW676	09/28/07 13:46	09/29/07	Aqueous	Same As Above
R07100002-006	DewBurd GW679	09/28/07 15:04	09/29/07	Aqueous	Same As Above
R07100002-007	DewBurd GW678	09/28/07 16:22	09/29/07	Aqueous	Same As Above
R07100002-008	DewBurd GW7002	09/28/07 17:48	09/29/07	Aqueous	Same As Above
R07100002-009	DewBurd GW7	09/28/07 17:28	09/29/07	Aqueous	Same As Above
R07100002-010	DewBurd GW650	09/28/07 19:00	09/29/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were



accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: _____

Linda Larson

Rapid City - Project Manager



Date: 19-Dec-07

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R07100002

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report and
- Suspended radiochemical data was determined from the subtraction of the dissolved parameter from the total parameter.

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-001
 Client Sample ID: DewBurd GW628

Report Date: 12/19/07
 Collection Date: 09/28/07 09:23
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	134	mg/L		5		1	A2320 B 10/04/07 18:01/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B 10/04/07 18:01/sn
Bicarbonate as HCO3	154	mg/L		5		1	A2320 B 10/04/07 18:01/sn
Calcium	24	mg/L	D	1		10	E200.7 10/09/07 19:59/eli-c
Magnesium	11.4	mg/L		0.5		10	E200.7 10/09/07 19:59/eli-c
Potassium	8.8	mg/L		0.5		2	E200.7 10/09/07 22:24/eli-c
Silica	4.5	mg/L		0.5		2	E200.7 10/09/07 22:24/eli-c
Sodium	435	mg/L	D	8		10	E200.7 10/09/07 19:59/eli-c
Chloride	82	mg/L		1		20	E300.0 10/02/07 07:37/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 09/29/07 20:40/jmh
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G 10/04/07 16:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 09/29/07 20:40/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 09/29/07 20:40/jmh
Sulfate	1030	mg/L	D	10		20	E300.0 10/02/07 07:37/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2490	umhos/cm		5		1	A2510 B 10/02/07 19:00/jmh
pH	8.66	s.u.		0.01		1	A4500-H B 10/02/07 19:00/jmh
Solids, Total Dissolved TDS @ 180 C	1800	mg/L		5		1	A2540 C 10/02/07 13:10/sn
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 10/09/07 15:39/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 10/09/07 15:39/eli-c
Barium	ND	mg/L		0.1		1	E200.8 10/09/07 15:39/eli-c
Boron	0.4	mg/L		0.1		2	E200.7 10/09/07 22:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 10/09/07 15:39/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 10/09/07 15:39/eli-c
Copper	ND	mg/L		0.01		1	E200.8 10/09/07 15:39/eli-c
Iron	0.11	mg/L		0.03		2	E200.7 10/09/07 22:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8 10/09/07 15:39/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8 10/09/07 15:39/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 10/09/07 15:39/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 10/09/07 15:39/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 10/09/07 15:39/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8 10/09/07 15:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/09/07 15:39/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/11/07 14:42/eli-c
Uranium	0.0017	mg/L		0.0003		1	E200.8 10/17/07 12:21/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-001
 Client Sample ID: DewBurd GW628

Report Date: 12/19/07
 Collection Date: 09/28/07 09:23
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	10/09/07 15:39/eli-c
Zinc	0.01	mg/L		0.01			1	E200.8	10/09/07 15:39/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.0002			1	E200.8	10/09/07 19:48/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	29.9	pCi/L		1.0			1	E900.0	10/15/07 05:56/eli-c
Gross Alpha precision (±)	2.1	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Gross Beta	14.0	pCi/L		2.0			1	E900.0	10/15/07 05:56/eli-c
Gross Beta precision (±)	3.6	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	7.4	pCi/L		0.2			1	E903.0	10/16/07 15:05/eli-c
Radium 226 precision (±)	0.9	pCi/L					1	E903.0	10/16/07 15:05/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
Gross Gamma	ND	pCi/L		20			1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/12/07 16:38/eli-c
Polonium 210	6.4	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Polonium 210 precision (±)	4.7	pCi/L					1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/12/07 16:38/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/12/07 16:38/eli-c
RADIONUCLIDES - TOTAL									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	6.4	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Polonium 210 precision (±)	4.7	pCi/L					1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	6.8	pCi/L		0.2			1	E903.0	10/31/07 12:04/eli-c
Radium 226 precision (±)	2.2	pCi/L					1	E903.0	10/31/07 12:04/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
DATA QUALITY									
A/C Balance (± 5)	-4.90	%					1	A1030 E	12/11/07 17:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-001
 Client Sample ID: DewBurd GW628

Report Date: 12/19/07
 Collection Date: 09/28/07 09:23
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		DF	Method	Analysis Date / By
					QCL				
DATA QUALITY									
Anions	23.5	meq/L					1	A1030 E	12/11/07 17:30/eli-c
Cations	21.3	meq/L					1	A1030 E	12/11/07 17:30/eli-c
Solids, Total Dissolved Calculated	1530	mg/L					1	A1030 E	12/11/07 17:30/eli-c
TDS Balance (0.80 - 1.20)	1.15	dec. %					1	A1030 E	12/11/07 17:30/eli-c
- Ion balance achieved using Sulfate from E200.7.									

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-002
 Client Sample ID: DewBurd GW675

Report Date: 12/19/07
 Collection Date: 09/28/07 10:49
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	378	mg/L		5		1	A2320 B	10/04/07 18:03/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 18:03/sn
Bicarbonate as HCO3	461	mg/L		5		1	A2320 B	10/04/07 18:03/sn
Calcium	400	mg/L	D	1		10	E200.7	10/09/07 20:02/eli-c
Magnesium	339	mg/L		0.5		10	E200.7	10/09/07 20:02/eli-c
Potassium	28.0	mg/L		0.5		2	E200.7	10/09/07 22:27/eli-c
Silica	16.0	mg/L		0.5		2	E200.7	10/09/07 22:27/eli-c
Sodium	630	mg/L	D	8		10	E200.7	10/09/07 20:02/eli-c
Chloride	64	mg/L		1		5	E300.0	10/02/07 08:10/jmh
Fluoride	0.1	mg/L		0.1		1	E300.0	09/29/07 21:29/jmh
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	10/04/07 16:25/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 21:29/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/29/07 21:29/jmh
Sulfate	3600	mg/L	D	70		100	E300.0	10/02/07 07:53/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6090	umhos/cm		5		1	A2510 B	10/02/07 19:02/jmh
pH	7.25	s.u.		0.01		1	A4500-H B	10/02/07 19:01/jmh
Solids, Total Dissolved TDS @ 180 C	5900	mg/L		5		1	A2540 C	10/02/07 13:11/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/09/07 16:09/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/09/07 16:09/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/07 16:09/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	10/09/07 22:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/07 16:09/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/07 16:09/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/09/07 16:09/eli-c
Iron	0.13	mg/L		0.03		2	E200.7	10/09/07 22:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/09/07 16:09/eli-c
Manganese	2.89	mg/L		0.01		1	E200.8	10/09/07 16:09/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/09/07 16:09/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/07 16:09/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/07 16:09/eli-c
Selenium	0.003	mg/L		0.001		1	E200.8	10/09/07 16:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/07 16:09/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/11/07 14:50/eli-c
Uranium	0.0372	mg/L		0.0003		1	E200.8	10/17/07 12:15/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Page 4 of 30



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-002
 Client Sample ID: DewBurd GW675

Report Date: 12/19/07
 Collection Date: 09/28/07 10:49
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 10/09/07 16:09/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8 10/09/07 16:09/eli-c
METALS - SUSPENDED							
Uranium	0.0013	mg/L		0.0003		1	E200.8 10/22/07 13:25/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.0002		1	E200.8 10/09/07 19:55/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	18.8	pCi/L		1.0		1	E900.0 10/15/07 05:56/eli-c
Gross Alpha precision (±)	5.5	pCi/L				1	E900.0 10/15/07 05:56/eli-c
Gross Beta	18.5	pCi/L		2.0		1	E900.0 10/15/07 05:56/eli-c
Gross Beta precision (±)	13.7	pCi/L				1	E900.0 10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M 10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 10/16/07 15:05/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 10/31/07 11:00/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1 10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	14	pCi/L		1.0		1	E909.0M 12/12/07 16:38/eli-c
Lead 210 precision (±)	4.4	pCi/L				1	E909.0M 12/12/07 16:38/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/01/07 14:10/eli-c
Polonium 210 precision (±)	ND	pCi/L				1	RMO-3008 11/01/07 14:10/eli-c
Radium 226	2.3	pCi/L		0.2		1	E903.0 12/12/07 16:38/eli-c
Radium 226 precision (±)	1.2	pCi/L				1	E903.0 12/12/07 16:38/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/12/07 16:38/eli-c
RADIONUCLIDES - TOTAL							
Lead 210	14	pCi/L		1.0		1	E909.0M 10/29/07 08:20/eli-c
Lead 210 precision (±)	4.4	pCi/L				1	E909.0M 10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/01/07 14:10/eli-c
Radium 226	2.3	pCi/L		0.2		1	E903.0 10/31/07 12:04/eli-c
Radium 226 precision (±)	1.2	pCi/L				1	E903.0 10/31/07 12:04/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 10/31/07 11:00/eli-c

DATA QUALITY

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-002
 Client Sample ID: DewBurd GW675

Report Date: 12/19/07
 Collection Date: 09/28/07 10:49
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
A/C Balance (± 5)	-4.99	%				1	A1030 E	12/11/07 17:31/eli-c
Anions	84.2	meq/L				1	A1030 E	12/11/07 17:31/eli-c
Cations	76.2	meq/L				1	A1030 E	12/11/07 17:31/eli-c
Solids, Total Dissolved Calculated	5280	mg/L				1	A1030 E	12/11/07 17:31/eli-c
TDS Balance (0.80 - 1.20)	1.11	dec. %				1	A1030 E	12/11/07 17:31/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-003
 Client Sample ID: DewBurd GW42

Report Date: 12/19/07
 Collection Date: 09/28/07 11:34
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	10/04/07 18:05/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 18:05/sn
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	10/04/07 18:05/sn
Calcium	30	mg/L	D	1		10	E200.7	10/09/07 20:06/eli-c
Magnesium	9.4	mg/L		0.5		10	E200.7	10/09/07 20:06/eli-c
Potassium	7.1	mg/L		0.5		2	E200.7	10/09/07 22:30/eli-c
Silica	7.1	mg/L		0.5		2	E200.7	10/09/07 22:30/eli-c
Sodium	242	mg/L	D	2		2	E200.7	10/09/07 22:30/eli-c
Chloride	12	mg/L		1		1	E300.0	09/29/07 21:46/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/29/07 21:46/jmh
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	10/04/07 16:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 21:46/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/29/07 21:46/jmh
Sulfate	505	mg/L	D	7		10	E300.0	10/02/07 08:26/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1390	umhos/cm		5		1	A2510 B	10/02/07 19:03/jmh
pH	8.02	s.u.		0.01		1	A4500-H B	10/02/07 19:03/jmh
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5		1	A2540 C	10/02/07 13:11/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/09/07 16:17/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/09/07 16:17/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/07 16:17/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/09/07 22:30/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/07 16:17/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/07 16:17/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/09/07 16:17/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/09/07 22:30/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/09/07 16:17/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	10/09/07 16:17/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/09/07 16:17/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/07 16:17/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/07 16:17/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/09/07 16:17/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/07 16:17/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/11/07 15:17/eli-c
Uranium	0.0150	mg/L		0.0003		1	E200.8	10/11/07 15:17/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-003
 Client Sample ID: DewBurd GW42

Report Date: 12/19/07
 Collection Date: 09/28/07 11:34
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	10/09/07 16:17/eli-c
Zinc	0.01	mg/L		0.01			1	E200.8	10/09/07 16:17/eli-c
METALS - SUSPENDED									
Uranium	0.0029	mg/L		0.0003			1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.0002			1	E200.8	10/09/07 20:03/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	371	pCi/L		1.0			1	E900.0	10/15/07 05:56/eli-c
Gross Alpha precision (±)	5.4	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Gross Beta	122	pCi/L		2.0			1	E900.0	10/15/07 05:56/eli-c
Gross Beta precision (±)	3.8	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	96.5	pCi/L		0.2			1	E903.0	10/16/07 15:05/eli-c
Radium 226 precision (±)	3.2	pCi/L					1	E903.0	10/16/07 15:05/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
Gross Gamma	1300	pCi/L		20			1	E901.1	10/18/07 10:39/eli-c
Gross Gamma precision (±)	280	pCi/L					1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	57	pCi/L		1.0			1	E909.0M	12/12/07 16:38/eli-c
Lead 210 precision (±)	7.7	pCi/L					1	E909.0M	12/12/07 16:38/eli-c
Polonium 210	13	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Polonium 210 precision (±)	6.5	pCi/L					1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/12/07 16:38/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/12/07 16:38/eli-c
RADIONUCLIDES - TOTAL									
Lead 210	57	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Lead 210 precision (±)	7.7	pCi/L					1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	13	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Polonium 210 precision (±)	6.5	pCi/L					1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	79.7	pCi/L		0.2			1	E903.0	10/31/07 12:04/eli-c
Radium 226 precision (±)	7.3	pCi/L					1	E903.0	10/31/07 12:04/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-003
 Client Sample ID: DewBurd GW42

Report Date: 12/19/07
 Collection Date: 09/28/07 11:34
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	-1.32	%					1	A1030 E 12/11/07 17:38/eli-c
Anions	13.3	meq/L					1	A1030 E 12/11/07 17:38/eli-c
Cations	13.0	meq/L					1	A1030 E 12/11/07 17:38/eli-c
Solids, Total Dissolved Calculated	858	mg/L					1	A1030 E 12/11/07 17:38/eli-c
TDS Balance (0.80 - 1.20)	1.12	dec. %					1	A1030 E 12/11/07 17:38/eli-c
- Ion balance achieved using Sulfate from E200.7.								

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-004
 Client Sample ID: DewBurd GW677

Report Date: 12/19/07
 Collection Date: 09/28/07 12:26
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	532	mg/L		5		1	A2320 B	10/04/07 18:07/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 18:07/sn
Bicarbonate as HCO3	649	mg/L		5		1	A2320 B	10/04/07 18:07/sn
Calcium	420	mg/L	D	1		10	E200.7	10/09/07 20:09/eli-c
Magnesium	360	mg/L		0.5		10	E200.7	10/09/07 20:09/eli-c
Potassium	13.2	mg/L		0.5		2	E200.7	10/09/07 22:34/eli-c
Silica	10.2	mg/L		0.5		2	E200.7	10/09/07 22:34/eli-c
Sodium	1810	mg/L	D	8		10	E200.7	10/09/07 20:09/eli-c
Chloride	1720	mg/L	D	8		200	E300.0	10/02/07 08:42/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	09/29/07 22:02/jmh
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/04/07 16:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 22:02/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/29/07 22:02/jmh
Sulfate	4390	mg/L	D	100		200	E300.0	10/02/07 08:42/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	11000	umhos/cm		5		1	A2510 B	10/02/07 19:05/jmh
pH	7.09	s.u.		0.01		1	A4500-H B	10/02/07 19:05/jmh
Solids, Total Dissolved TDS @ 180 C	8900	mg/L		5		1	A2540 C	10/02/07 13:12/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/09/07 16:24/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	10/09/07 16:24/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/07 16:24/eli-c
Boron	0.9	mg/L		0.1		2	E200.7	10/09/07 22:34/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/07 16:24/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/07 16:24/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/09/07 16:24/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/09/07 22:34/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/11/07 15:25/eli-c
Manganese	2.89	mg/L		0.01		1	E200.8	10/09/07 16:24/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/11/07 15:25/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/07 16:24/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/07 16:24/eli-c
Selenium	0.003	mg/L		0.001		1	E200.8	10/09/07 16:24/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/07 16:24/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/11/07 15:25/eli-c
Uranium	0.0218	mg/L		0.0003		1	E200.8	10/11/07 15:25/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-004
 Client Sample ID: DewBurd GW677

Report Date: 12/19/07
 Collection Date: 09/28/07 12:26
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	10/09/07 16:24/eli-c
Zinc	0.02	mg/L		0.01			1	E200.8	10/09/07 16:24/eli-c
METALS - SUSPENDED									
Uranium	0.027	mg/L		0.0003			1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.0002			1	E200.8	10/09/07 20:10/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	41.0	pCi/L		1.0			1	E900.0	10/15/07 05:56/eli-c
Gross Alpha precision (±)	9.5	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Gross Beta	ND	pCi/L		2.0			1	E900.0	10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	0.9	pCi/L		0.2			1	E903.0	10/16/07 15:05/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	10/16/07 15:05/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
Gross Gamma	1100	pCi/L		20			1	E901.1	10/18/07 10:39/eli-c
Gross Gamma precision (±)	170	pCi/L					1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/12/07 16:38/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/12/07 16:38/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/12/07 16:38/eli-c
RADIONUCLIDES - TOTAL									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/31/07 12:04/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
DATA QUALITY									
A/C Balance (± 5)	-3.56	%					1	A1030 E	12/11/07 17:39/eli-c
Anions	140	meq/L					1	A1030 E	12/11/07 17:39/eli-c
Cations	130	meq/L					1	A1030 E	12/11/07 17:39/eli-c
Solids, Total Dissolved Calculated	8510	mg/L					1	A1030 E	12/11/07 17:39/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-004
 Client Sample ID: DewBurd GW677

Report Date: 12/19/07
 Collection Date: 09/28/07 12:26
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.04	dec. %				1	A1030 E	12/11/07 17:39/eli-c
- Ion balance achieved using Sulfate from E200.7.								

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-005
 Client Sample ID: DewBurd GW676

Report Date: 12/19/07
 Collection Date: 09/28/07 13:46
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	240	mg/L		5			1	A2320 B	10/04/07 18:11/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/04/07 18:11/sn
Bicarbonate as HCO3	293	mg/L		5			1	A2320 B	10/04/07 18:11/sn
Calcium	465	mg/L	D	1			10	E200.7	10/09/07 20:12/eli-c
Magnesium	104	mg/L		0.5			10	E200.7	10/09/07 20:12/eli-c
Potassium	11.6	mg/L		0.5			2	E200.7	10/09/07 22:37/eli-c
Silica	13.7	mg/L		0.5			2	E200.7	10/09/07 22:37/eli-c
Sodium	80	mg/L	D	8			10	E200.7	10/09/07 20:12/eli-c
Chloride	15	mg/L		1			1	E300.0	09/29/07 22:19/jmh
Fluoride	0.2	mg/L		0.1			1	E300.0	09/29/07 22:19/jmh
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	10/04/07 16:33/jmh
Nitrogen, Nitrate as N	1.0	mg/L		0.1			1	E300.0	09/29/07 22:19/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/29/07 22:19/jmh
Sulfate	1790	mg/L	D	40			50	E300.0	10/02/07 08:59/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2880	umhos/cm		5			1	A2510 B	10/02/07 19:07/jmh
pH	7.13	s.u.		0.01			1	A4500-H B	10/02/07 19:06/jmh
Solids, Total Dissolved TDS @ 180 C	3000	mg/L		5			1	A2540 C	10/02/07 13:12/sn
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	10/09/07 16:32/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/09/07 16:32/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/09/07 16:32/eli-c
Boron	0.4	mg/L		0.1			2	E200.7	10/09/07 22:37/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/09/07 16:32/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/09/07 16:32/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/09/07 16:32/eli-c
Iron	ND	mg/L		0.03			2	E200.7	10/09/07 22:37/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/09/07 16:32/eli-c
Manganese	0.02	mg/L		0.01			1	E200.8	10/09/07 16:32/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/09/07 16:32/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/09/07 16:32/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/09/07 16:32/eli-c
Selenium	0.017	mg/L		0.001			1	E200.8	10/09/07 16:32/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/09/07 16:32/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/11/07 15:33/eli-c
Uranium	0.0494	mg/L		0.0003			1	E200.8	10/11/07 15:33/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-005
 Client Sample ID: DewBurd GW676

Report Date: 12/19/07
 Collection Date: 09/28/07 13:46
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	10/09/07 16:32/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/09/07 16:32/eli-c
METALS - SUSPENDED									
Uranium	0.0096	mg/L		0.0003			1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.0002			1	E200.8	10/09/07 20:18/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	37.1	pCi/L		1.0			1	E900.0	10/15/07 05:56/eli-c
Gross Alpha precision (±)	2.5	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Gross Beta	11.1	pCi/L		2.0			1	E900.0	10/15/07 05:56/eli-c
Gross Beta precision (±)	4.7	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/16/07 15:05/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
Gross Gamma	1100	pCi/L		20			1	E901.1	10/18/07 10:39/eli-c
Gross Gamma precision (±)	200	pCi/L					1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/12/07 16:38/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/12/07 16:38/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/12/07 16:38/eli-c
RADIONUCLIDES - TOTAL									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/31/07 13:11/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
DATA QUALITY									
A/C Balance (± 5)	-3.70	%					1	A1030 E	12/11/07 17:53/eli-c
Anions	38.2	meq/L					1	A1030 E	12/11/07 17:53/eli-c
Cations	35.5	meq/L					1	A1030 E	12/11/07 17:53/eli-c
Solids, Total Dissolved Calculated	2410	mg/L					1	A1030 E	12/11/07 17:53/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100002-005
Client Sample ID: DewBurd GW676

Report Date: 12/19/07
Collection Date: 09/28/07 13:46
Date Received: 09/29/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	1.24	dec. %					1	A1030 E	12/11/07 17:53/eli-c
<ul style="list-style-type: none"> - Ion balance achieved using Sulfate from E200.7. - TDS balance may have been affected by hydratable solids. 									

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-006
 Client Sample ID: DewBurd GW679

Report Date: 12/19/07
 Collection Date: 09/28/07 15:04
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	140	mg/L		5			1	A2320 B	10/04/07 18:13/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/04/07 18:13/sn
Bicarbonate as HCO3	171	mg/L		5			1	A2320 B	10/04/07 18:13/sn
Calcium	414	mg/L	D	1			10	E200.7	10/09/07 20:15/eli-c
Magnesium	89.0	mg/L		0.5			10	E200.7	10/09/07 20:15/eli-c
Potassium	12.5	mg/L		0.5			2	E200.7	10/09/07 22:40/eli-c
Silica	10.4	mg/L		0.5			2	E200.7	10/09/07 22:40/eli-c
Sodium	73	mg/L	D	8			10	E200.7	10/09/07 20:15/eli-c
Chloride	12	mg/L		1			1	E300.0	09/29/07 22:35/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	09/29/07 22:35/jmh
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	10/04/07 16:35/jmh
Nitrogen, Nitrate as N	1.2	mg/L		0.1			1	E300.0	09/29/07 22:35/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/29/07 22:35/jmh
Sulfate	1580	mg/L	D	40			50	E300.0	10/02/07 09:15/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2520	umhos/cm		5			1	A2510 B	10/02/07 19:09/jmh
pH	7.53	s.u.		0.01			1	A4500-H B	10/02/07 19:08/jmh
Solids, Total Dissolved TDS @ 180 C	2500	mg/L		5			1	A2540 C	10/02/07 13:12/sn
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	10/09/07 16:39/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/09/07 16:39/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/09/07 16:39/eli-c
Boron	0.4	mg/L		0.1			2	E200.7	10/09/07 22:40/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/09/07 16:39/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/09/07 16:39/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/09/07 16:39/eli-c
Iron	ND	mg/L		0.03			2	E200.7	10/09/07 22:40/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/09/07 16:39/eli-c
Manganese	0.14	mg/L		0.01			1	E200.8	10/09/07 16:39/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/09/07 16:39/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/09/07 16:39/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/09/07 16:39/eli-c
Selenium	0.016	mg/L		0.001			1	E200.8	10/09/07 16:39/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/09/07 16:39/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/11/07 15:40/eli-c
Uranium	0.0157	mg/L		0.0003			1	E200.8	10/11/07 15:40/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-006
 Client Sample ID: DewBurd GW679

Report Date: 12/19/07
 Collection Date: 09/28/07 15:04
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	10/09/07 16:39/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/09/07 16:39/eli-c
METALS - SUSPENDED									
Uranium	0.011	mg/L		0.0003			1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.0002			1	E200.8	10/09/07 20:48/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	19.9	pCi/L		1.0			1	E900.0	10/15/07 05:56/eli-c
Gross Alpha precision (±)	2.2	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Gross Beta	10.7	pCi/L		2.0			1	E900.0	10/15/07 05:56/eli-c
Gross Beta precision (±)	4.7	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	1.1	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Polonium 210 precision (±)	1.0	pCi/L					1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/16/07 15:05/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
Gross Gamma	1200	pCi/L		20			1	E901.1	10/18/07 10:39/eli-c
Gross Gamma precision (±)	230	pCi/L					1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/12/07 16:38/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	2.5	pCi/L		0.2			1	E903.0	12/12/07 16:38/eli-c
Radium 226 precision (±)	1.2	pCi/L					1	E903.0	12/12/07 16:38/eli-c
Thorium 230	1.9	pCi/L		0.2			1	E907.0	12/12/07 16:38/eli-c
Thorium 230 precision (±)	1.3	pCi/L					1	E907.0	12/12/07 16:38/eli-c
RADIONUCLIDES - TOTAL									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	2.5	pCi/L		0.2			1	E903.0	10/31/07 13:11/eli-c
Radium 226 precision (±)	1.2	pCi/L					1	E903.0	10/31/07 13:11/eli-c
Thorium 230	1.9	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
Thorium 230 precision (±)	1.2	pCi/L					1	E907.0	10/31/07 11:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-006
 Client Sample ID: DewBurd GW679

Report Date: 12/19/07
 Collection Date: 09/28/07 15:04
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
DATA QUALITY								
A/C Balance (± 5)	-1.81	%				1	A1030 E	12/11/07 17:42/eli-c
Anions	32.7	meq/L				1	A1030 E	12/11/07 17:42/eli-c
Cations	31.5	meq/L				1	A1030 E	12/11/07 17:42/eli-c
Solids, Total Dissolved Calculated	2110	mg/L				1	A1030 E	12/11/07 17:42/eli-c
TDS Balance (0.80 - 1.20)	1.19	dec. %				1	A1030 E	12/11/07 17:42/eli-c

- Ion balance achieved using Sulfate from E200.7.

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-007
 Client Sample ID: DewBurd GW678

Report Date: 12/19/07
 Collection Date: 09/28/07 16:22
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	490	mg/L		5		1	A2320 B	10/04/07 18:15/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 18:15/sn
Bicarbonate as HCO3	597	mg/L		5		1	A2320 B	10/04/07 18:15/sn
Calcium	397	mg/L	D	1		10	E200.7	10/09/07 20:35/eli-c
Magnesium	398	mg/L		0.5		10	E200.7	10/09/07 20:35/eli-c
Potassium	18.9	mg/L		0.5		2	E200.7	10/09/07 22:43/eli-c
Silica	14.9	mg/L		0.5		2	E200.7	10/09/07 22:43/eli-c
Sodium	564	mg/L	D	8		10	E200.7	10/09/07 20:35/eli-c
Chloride	64	mg/L		1		5	E300.0	10/05/07 00:40/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	09/29/07 22:52/jmh
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/04/07 16:36/jmh
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	09/29/07 22:52/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/29/07 22:52/jmh
Sulfate	3220	mg/L	D	70		100	E300.0	10/02/07 10:04/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5710	umhos/cm		5		1	A2510 B	10/02/07 19:10/jmh
pH	7.23	s.u.		0.01		1	A4500-H B	10/02/07 19:09/jmh
Solids, Total Dissolved TDS @ 180 C	6000	mg/L		5		1	A2540 C	10/02/07 13:13/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/09/07 16:47/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	10/09/07 16:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/07 16:47/eli-c
Boron	1.3	mg/L		0.1		2	E200.7	10/09/07 22:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/07 16:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/07 16:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/09/07 16:47/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/09/07 22:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/09/07 16:47/eli-c
Manganese	2.85	mg/L		0.01		1	E200.8	10/09/07 16:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/09/07 16:47/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/07 16:47/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/07 16:47/eli-c
Selenium	0.003	mg/L		0.001		1	E200.8	10/09/07 16:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/07 16:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/11/07 15:48/eli-c
Uranium	0.0352	mg/L		0.0003		1	E200.8	10/11/07 15:48/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-007
 Client Sample ID: DewBurd GW678

Report Date: 12/19/07
 Collection Date: 09/28/07 16:22
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	10/09/07 16:47/eli-c
Zinc	0.01	mg/L		0.01			1	E200.8	10/09/07 16:47/eli-c
METALS - SUSPENDED									
Uranium	0.0032	mg/L		0.0003			1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.0002			1	E200.8	10/09/07 20:56/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	23.2	pCi/L		1.0			1	E900.0	10/15/07 05:56/eli-c
Gross Alpha precision (±)	5.7	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Gross Beta	8.1	pCi/L		2.0			1	E900.0	10/15/07 05:56/eli-c
Gross Beta precision (±)	13.6	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/16/07 15:05/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
Gross Gamma	1100	pCi/L		20			1	E901.1	10/18/07 10:39/eli-c
Gross Gamma precision (±)	180	pCi/L					1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/12/07 16:38/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/12/07 16:38/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/12/07 16:38/eli-c
RADIONUCLIDES - TOTAL									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/31/07 13:11/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.532	%					1	A1030 E	12/11/07 17:43/eli-c
Anions	78.6	meq/L					1	A1030 E	12/11/07 17:43/eli-c
Cations	77.8	meq/L					1	A1030 E	12/11/07 17:43/eli-c
Solids, Total Dissolved Calculated	4950	mg/L					1	A1030 E	12/11/07 17:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-007
 Client Sample ID: DewBurd GW678

Report Date: 12/19/07
 Collection Date: 09/28/07 16:22
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	1.21	dec. %					1	A1030 E	12/11/07 17:43/eli-c
- TDS balance may have been affected by hydratable solids.									

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-008
 Client Sample ID: DewBurd GW7002

Report Date: 12/19/07
 Collection Date: 09/28/07 17:48
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	280	mg/L		5		1	A2320 B	10/04/07 18:18/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 18:18/sn
Bicarbonate as HCO3	341	mg/L		5		1	A2320 B	10/04/07 18:18/sn
Calcium	206	mg/L	D	1		10	E200.7	10/09/07 20:38/eli-c
Magnesium	77.7	mg/L		0.5		10	E200.7	10/09/07 20:38/eli-c
Potassium	19.9	mg/L		0.5		2	E200.7	10/09/07 22:47/eli-c
Silica	7.3	mg/L		0.5		2	E200.7	10/09/07 22:47/eli-c
Sodium	152	mg/L	D	8		10	E200.7	10/09/07 20:38/eli-c
Chloride	10	mg/L		1		1	E300.0	09/29/07 23:08/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	09/29/07 23:08/jmh
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	10/04/07 16:37/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 23:08/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/29/07 23:08/jmh
Sulfate	1160	mg/L	D	10		20	E300.0	10/02/07 11:10/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2200	umhos/cm		5		1	A2510 B	10/02/07 19:12/jmh
pH	7.29	s.u.		0.01		1	A4500-H B	10/02/07 19:11/jmh
Solids, Total Dissolved TDS @ 180 C	1900	mg/L		5		1	A2540 C	10/05/07 16:24/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/09/07 16:55/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/09/07 16:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/07 16:55/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/09/07 22:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/07 16:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/07 16:55/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/09/07 16:55/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/09/07 22:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/09/07 16:55/eli-c
Manganese	0.39	mg/L		0.01		1	E200.8	10/09/07 16:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/09/07 16:55/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/07 16:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/07 16:55/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	10/09/07 16:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/07 16:55/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/11/07 15:55/eli-c
Uranium	0.0007	mg/L		0.0003		1	E200.8	10/11/07 15:55/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-008
 Client Sample ID: DewBurd GW7002

Report Date: 12/19/07
 Collection Date: 09/28/07 17:48
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 10/09/07 16:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 10/09/07 16:55/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 10/22/07 13:25/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.0002		1	E200.8 10/09/07 21:03/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	45.6	pCi/L		1.0		1	E900.0 10/15/07 05:56/eli-c
Gross Alpha precision (±)	2.3	pCi/L				1	E900.0 10/15/07 05:56/eli-c
Gross Beta	29.7	pCi/L		2.0		1	E900.0 10/15/07 05:56/eli-c
Gross Beta precision (±)	3.8	pCi/L				1	E900.0 10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M 10/29/07 08:20/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008 11/01/07 14:10/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008 11/01/07 14:10/eli-c
Radium 226	8.5	pCi/L		0.2		1	E903.0 10/16/07 16:09/eli-c
Radium 226 precision (±)	0.9	pCi/L				1	E903.0 10/16/07 16:09/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 10/31/07 11:00/eli-c
Gross Gamma	1200	pCi/L		20		1	E901.1 10/18/07 10:39/eli-c
Gross Gamma precision (±)	180	pCi/L				1	E901.1 10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/12/07 16:38/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/12/07 16:38/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/12/07 16:38/eli-c
RADIONUCLIDES - TOTAL							
Lead 210	ND	pCi/L		1.0		1	E909.0M 10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/01/07 14:10/eli-c
Radium 226	6.3	pCi/L		0.2		1	E903.0 10/31/07 13:11/eli-c
Radium 226 precision (±)	2.1	pCi/L				1	E903.0 10/31/07 13:11/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 10/31/07 11:00/eli-c
DATA QUALITY							
A/C Balance (± 5)	-4.65	%				1	A1030 E 12/11/07 17:46/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-008
 Client Sample ID: DewBurd GW7002

Report Date: 12/19/07
 Collection Date: 09/28/07 17:48
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Anions	26.3	meq/L					1	A1030 E 12/11/07 17:46/eli-c
Cations	23.9	meq/L					1	A1030 E 12/11/07 17:46/eli-c
Solids, Total Dissolved Calculated	1620	mg/L					1	A1030 E 12/11/07 17:46/eli-c
TDS Balance (0.80 - 1.20)	1.19	dec. %					1	A1030 E 12/11/07 17:46/eli-c
- Ion balance achieved using Sulfate and Chloride from E200.7.								

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-009
 Client Sample ID: DewBurd GW7

Report Date: 12/19/07
 Collection Date: 09/28/07 17:28
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	176	mg/L		5		1	A2320 B	10/04/07 18:19/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 18:19/sn
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B	10/04/07 18:19/sn
Calcium	30	mg/L	D	1		10	E200.7	10/09/07 20:42/eli-c
Magnesium	11.5	mg/L		0.5		10	E200.7	10/09/07 20:42/eli-c
Potassium	11.0	mg/L		0.5		2	E200.7	10/09/07 22:50/eli-c
Silica	7.5	mg/L		0.5		2	E200.7	10/09/07 22:50/eli-c
Sodium	237	mg/L	D	2		2	E200.7	10/09/07 22:50/eli-c
Chloride	12	mg/L		1		1	E300.0	09/29/07 23:24/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	09/29/07 23:24/jmh
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	10/04/07 16:38/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 23:24/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/29/07 23:24/jmh
Sulfate	586	mg/L	D	7		10	E300.0	10/02/07 11:27/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1490	umhos/cm		5		1	A2510 B	10/02/07 19:14/jmh
pH	8.13	s.u.		0.01		1	A4500-H B	10/02/07 19:13/jmh
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C	10/02/07 13:14/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/09/07 15:24/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/09/07 15:24/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/07 15:24/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/09/07 22:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/07 15:24/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/07 15:24/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/09/07 15:24/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/09/07 22:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/09/07 15:24/eli-c
Manganese	0.03	mg/L		0.01		1	E200.8	10/09/07 15:24/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/09/07 15:24/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/07 15:24/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/07 15:24/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/09/07 15:24/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/07 15:24/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/11/07 16:03/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/11/07 16:03/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-009
 Client Sample ID: DewBurd GW7

Report Date: 12/19/07
 Collection Date: 09/28/07 17:28
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	10/09/07 15:24/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/09/07 15:24/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.0002			1	E200.8	10/09/07 21:11/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	4.4	pCi/L		1.0			1	E900.0	10/15/07 05:56/eli-c
Gross Alpha precision (±)	1.2	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Gross Beta	5.0	pCi/L		2.0			1	E900.0	10/15/07 05:56/eli-c
Gross Beta precision (±)	2.8	pCi/L					1	E900.0	10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	0.6	pCi/L		0.2			1	E903.0	10/16/07 16:09/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	10/16/07 16:09/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
Gross Gamma	1200	pCi/L		20			1	E901.1	10/18/07 10:39/eli-c
Gross Gamma precision (±)	180	pCi/L					1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/12/07 16:38/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/12/07 16:38/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/12/07 16:38/eli-c
RADIONUCLIDES - TOTAL									
Lead 210	ND	pCi/L		1.0			1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	10/31/07 13:11/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	10/31/07 11:00/eli-c
DATA QUALITY									
A/C Balance (± 5)	-3.73	%					1	A1030 E	12/11/07 17:48/eli-c
Anions	14.1	meq/L					1	A1030 E	12/11/07 17:48/eli-c
Cations	13.0	meq/L					1	A1030 E	12/11/07 17:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100002-009
Client Sample ID: DewBurd GW7

Report Date: 12/19/07
Collection Date: 09/28/07 17:28
Date Received: 09/29/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
Solids, Total Dissolved Calculated	896	mg/L					1	A1030 E	12/11/07 17:48/eli-c
TDS Balance (0.80 - 1.20)	1.16	dec. %					1	A1030 E	12/11/07 17:48/eli-c
- Ion balance achieved using Sulfate from E200.7.									

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-010
 Client Sample ID: DewBurd GW650

Report Date: 12/19/07
 Collection Date: 09/28/07 19:00
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	116	mg/L		5		1	A2320 B	10/04/07 18:21/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 18:21/sn
Bicarbonate as HCO3	141	mg/L		5		1	A2320 B	10/04/07 18:21/sn
Calcium	219	mg/L	D	1		10	E200.7	10/09/07 20:45/eli-c
Magnesium	85.2	mg/L		0.5		10	E200.7	10/09/07 20:45/eli-c
Potassium	17.6	mg/L		0.5		2	E200.7	10/09/07 22:53/eli-c
Silica	2.7	mg/L		0.5		2	E200.7	10/09/07 22:53/eli-c
Sodium	110	mg/L	D	8		10	E200.7	10/09/07 20:45/eli-c
Chloride	17	mg/L		1		1	E300.0	09/29/07 23:41/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	09/29/07 23:41/jmh
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G	10/04/07 16:39/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 23:41/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/29/07 23:41/jmh
Sulfate	1320	mg/L	D	10		20	E300.0	10/02/07 11:43/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2260	umhos/cm		5		1	A2510 B	10/02/07 19:17/jmh
pH	7.04	s. u.		0.01		1	A4500-H B	10/02/07 19:16/jmh
Solids, Total Dissolved TDS @ 180 C	2000	mg/L		5		1	A2540 C	10/02/07 13:14/sn
METALS - DISSOLVED								
Aluminum	0.6	mg/L		0.1		1	E200.8	10/09/07 15:31/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	10/09/07 15:31/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/07 15:31/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/09/07 22:53/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/07 15:31/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/07 15:31/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/09/07 15:31/eli-c
Iron	13.2	mg/L		0.03		2	E200.7	10/09/07 22:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/09/07 15:31/eli-c
Manganese	2.44	mg/L		0.01		1	E200.8	10/09/07 15:31/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/09/07 15:31/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/07 15:31/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/07 15:31/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	10/09/07 15:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/07 15:31/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/11/07 16:10/eli-c
Uranium	0.0019	mg/L		0.0003		1	E200.8	10/11/07 16:10/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07100002-010
 Client Sample ID: DewBurd GW650

Report Date: 12/19/07
 Collection Date: 09/28/07 19:00
 Date Received: 09/29/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	10/09/07 15:31/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8	10/09/07 15:31/eli-c
METALS - SUSPENDED								
Uranium	0.0014	mg/L		0.0003		1	E200.8	10/22/07 13:25/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.0002		1	E200.8	10/09/07 21:18/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	13.1	pCi/L		1.0		1	E900.0	10/15/07 05:56/eli-c
Gross Alpha precision (±)	1.6	pCi/L				1	E900.0	10/15/07 05:56/eli-c
Gross Beta	20.9	pCi/L		2.0		1	E900.0	10/15/07 05:56/eli-c
Gross Beta precision (±)	3.7	pCi/L				1	E900.0	10/15/07 05:56/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	2.7	pCi/L		0.2		1	E903.0	10/16/07 16:09/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	10/16/07 16:09/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/31/07 11:00/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1	10/18/07 10:39/eli-c
Gross Gamma precision (±)	200	pCi/L				1	E901.1	10/18/07 10:39/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/12/07 16:38/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	0.6	pCi/L		0.2		1	E903.0	12/12/07 16:38/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	12/12/07 16:38/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/12/07 16:38/eli-c
RADIONUCLIDES - TOTAL								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/29/07 08:20/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/01/07 14:10/eli-c
Radium 226	3.2	pCi/L		0.2		1	E903.0	10/31/07 13:11/eli-c
Radium 226 precision (±)	1.5	pCi/L				1	E903.0	10/31/07 13:11/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/31/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-3.87	%				1	A1030 E	12/11/07 17:49/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100002-010
Client Sample ID: DewBurd GW650

Report Date: 12/19/07
Collection Date: 09/28/07 19:00
Date Received: 09/29/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
Anions	25.9	meq/L					1	A1030 E	12/11/07 17:49/eli-c
Cations	23.9	meq/L					1	A1030 E	12/11/07 17:49/eli-c
Solids, Total Dissolved Calculated	1630	mg/L					1	A1030 E	12/11/07 17:49/eli-c
TDS Balance (0.80 - 1.20)	1.21	dec. %					1	A1030 E	12/11/07 17:49/eli-c

- Ion balance achieved using Sulfate from E200.7.
- TDS balance may have been affected by hydratable solids.

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 071004A-ALK-SEL-W		
Sample ID: MBLK1_071004A	Method Blank								
Alkalinity, Total as CaCO3	ND	mg/L	3						Run: PH_COND1-R_071004A 10/04/07 15:38
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_071004A	Laboratory Control Sample								
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			Run: PH_COND1-R_071004A 10/04/07 15:44
Sample ID: R07090391-003BMS	Sample Matrix Spike								
Alkalinity, Total as CaCO3	220	mg/L	5.0	96	80	120			Run: PH_COND1-R_071004A 10/04/07 17:55
Sample ID: R07100001-001BDUP	Sample Duplicate								
Alkalinity, Total as CaCO3	106	mg/L	5.0				3.7	10	Run: PH_COND1-R_071004A 10/04/07 17:59
Carbonate as CO3	ND	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	129	mg/L	5.0				3.7	10	
Sample ID: R07100043-002AMS	Sample Matrix Spike								
Alkalinity, Total as CaCO3	330	mg/L	5.0	106	80	120			Run: PH_COND1-R_071004A 10/04/07 18:28
Method: A2510 B							Batch: 071002_1_COND-PROBE-W		
Sample ID: LCS1-1_071002	Laboratory Control Sample								
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_071002A 10/02/07 18:11
Sample ID: LCS2-1_071002	Laboratory Control Sample								
Conductivity @ 25 C	4920	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_071002A 10/02/07 18:12
Sample ID: LCS_COND-1_071002	Laboratory Control Sample								
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_071002A 10/02/07 18:13
Sample ID: MBLK-1_071002	Method Blank								
Conductivity @ 25 C	ND	umhos/cm	5						Run: PH_COND2-R_071002A 10/02/07 18:13
Sample ID: R07100002-009ADUP	Sample Duplicate								
Conductivity @ 25 C	1490	umhos/cm	5.0				0.0	10	Run: PH_COND2-R_071002A 10/02/07 19:14

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 071002A-SLDS-TDS-W		
Sample ID: MBLK1_071002A	Method Blank				Run: BAL-4-R_071002A			10/02/07 13:16	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_071002A	Laboratory Control Sample				Run: BAL-4-R_071002A			10/02/07 13:16	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: R07100002-010AMS	Sample Matrix Spike				Run: BAL-4-R_071002A			10/02/07 13:15	
Solids, Total Dissolved TDS @ 180 C	2200	mg/L	5.0	102	80	120			
Sample ID: R07100002-010AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071002A			10/02/07 13:15	
Solids, Total Dissolved TDS @ 180 C	2200	mg/L	5.0	120	80	120	1.6	10	
Method: A2540 C							Batch: 071005A-SLDS-TDS-W		
Sample ID: LCS1_071005A	Laboratory Control Sample				Run: BAL-4-R_071005A			10/05/07 16:23	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	102	90	110			
Sample ID: MBLK1_071005A	Method Blank				Run: BAL-4-R_071005A			10/05/07 16:23	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R07100044-001AMS	Sample Matrix Spike				Run: BAL-4-R_071005A			10/05/07 16:24	
Solids, Total Dissolved TDS @ 180 C	680	mg/L	5.0	99	80	120			
Sample ID: R07100044-001AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071005A			10/05/07 16:24	
Solids, Total Dissolved TDS @ 180 C	670	mg/L	5.0	93	80	120	1.8	10	
Method: A4500-H B							Batch: 071002_1_PH-W		
Sample ID: LCS_pH-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:08	
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R07100002-009ADUP	Sample Duplicate				Run: PH_COND2-R_071002A			10/02/07 19:15	
pH	8.14	s.u.	0.010				0.1	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2007-10-04_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.02						
						Run: TECHAA2-R_071004A			10/04/07 15:23
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	104	90	110			10/04/07 15:26
						Run: TECHAA2-R_071004A			10/04/07 16:31
Sample ID: R07100002-004BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.37	mg/L	0.10	88	80	120			10/04/07 16:45
						Run: TECHAA2-R_071004A			10/04/07 16:45
Sample ID: R07100023-002AMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.27	mg/L	0.10	108	80	120			10/04/07 16:46
						Run: TECHAA2-R_071004A			10/04/07 16:46
Sample ID: R07100023-002AMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.26	mg/L	0.10	102	80	120	5.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R91017		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C91017			10/09/07 14:39		
Silica	1.9	mg/L	0.10	97	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	1.9	mg/L	0.030	96	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C91017			10/09/07 14:42		
Calcium	23	mg/L	0.50	90	85	125			
Magnesium	23	mg/L	0.50	92	85	125			
Potassium	25	mg/L	0.50	101	85	125			
Sodium	23	mg/L	0.76	90	85	125			
Sample ID: R07090385-001C	Sample Matrix Spike			Run: SUB-C91017			10/09/07 19:19		
Boron	9.11	mg/L	0.10	91	70	130			
Calcium	686	mg/L	1.0	76	70	130			
Iron	10.9	mg/L	0.046	89	70	130			
Magnesium	498	mg/L	0.50	79	70	130			
Potassium	1120	mg/L	0.50	92	70	130			
Silica	16.3	mg/L	0.20	84	70	130			
Sodium	489	mg/L	7.6	82	70	130			
Sample ID: R07090385-001C	Sample Matrix Spike Duplicate			Run: SUB-C91017			10/09/07 19:23		
Boron	9.33	mg/L	0.10	93	70	130	2.4	20	
Calcium	701	mg/L	1.0	79	70	130	2.2	20	
Iron	11.1	mg/L	0.046	91	70	130	1.5	20	
Magnesium	506	mg/L	0.50	80	70	130	1.5	20	
Potassium	1130	mg/L	0.50	92	70	130	0.3	20	
Silica	16.9	mg/L	0.20	89	70	130	3.5	20	
Sodium	488	mg/L	7.6	82	70	130	0.4	20	
Method: E200.8							Batch: C_16385		
Sample ID: MB-16385	Method Blank			Run: SUB-C91024			10/09/07 19:18		
Mercury	ND	mg/L	3E-05						
Sample ID: C07100384-006BMS4	Post Digestion Spike			Run: SUB-C91024			10/09/07 22:49		
Mercury	0.0059	mg/L	0.0010	84	70	130			
Sample ID: C07100384-006BMSD4	Post Digestion Spike Duplicate			Run: SUB-C91024			10/09/07 22:56		
Mercury	0.0060	mg/L	0.0010	85	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R91024		
Sample ID: LRB	Method Blank		Run: SUB-C91024			10/09/07 12:46			
Aluminum	0.0010	mg/L	0.0002						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	0.0002						
Chromium	ND	mg/L	0.0001						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	3E-05						
Mercury	2E-05	mg/L	6E-06						
Molybdenum	0.0005	mg/L	7E-05						
Nickel	ND	mg/L	8E-05						
Selenium	ND	mg/L	0.0004						
Silver	ND	mg/L	3E-05						
Vanadium	ND	mg/L	9E-05						
Zinc	0.002	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C91024			10/09/07 12:53			
Aluminum	0.0527	mg/L	0.0010	103	85	115			
Arsenic	0.0517	mg/L	0.0010	103	85	115			
Barium	0.0495	mg/L	0.0010	99	85	115			
Cadmium	0.0509	mg/L	0.0010	102	85	115			
Chromium	0.0514	mg/L	0.0010	103	85	115			
Copper	0.0516	mg/L	0.0010	103	85	115			
Lead	0.0523	mg/L	0.0010	104	85	115			
Manganese	0.0512	mg/L	0.0010	102	85	115			
Mercury	0.00528	mg/L	0.0010	105	85	115			
Molybdenum	0.0490	mg/L	0.0010	97	85	115			
Nickel	0.0526	mg/L	0.0010	105	85	115			
Selenium	0.0528	mg/L	0.0010	105	85	115			
Silver	0.0197	mg/L	0.0010	98	85	115			
Vanadium	0.0517	mg/L	0.0010	103	85	115			
Zinc	0.0538	mg/L	0.0021	103	85	115			
Sample ID: R07100002-008C	Post Digestion Spike		Run: SUB-C91024			10/09/07 17:02			
Aluminum	0.0491	mg/L	0.10	97	70	130			
Arsenic	0.0518	mg/L	0.0010	101	70	130			
Barium	0.0617	mg/L	0.10	104	70	130			
Cadmium	0.0469	mg/L	0.010	94	70	130			
Chromium	0.0489	mg/L	0.050	98	70	130			
Copper	0.0469	mg/L	0.010	91	70	130			
Lead	0.0520	mg/L	0.050	104	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R91024		
Sample ID: R07100002-008C	Post Digestion Spike			Run: SUB-C91024			10/09/07 17:02		
Manganese	0.447	mg/L	0.010		70	130			A
Mercury	0.00543	mg/L	0.0010	109	70	130			
Molybdenum	0.0477	mg/L	0.10	94	70	130			
Nickel	0.0475	mg/L	0.050	89	70	130			
Selenium	0.0503	mg/L	0.0010	98	70	130			
Silver	0.0162	mg/L	0.010	81	70	130			
Vanadium	0.0493	mg/L	0.10	98	70	130			
Zinc	0.0485	mg/L	0.010	90	70	130			
Sample ID: R07100002-008C	Post Digestion Spike Duplicate			Run: SUB-C91024			10/09/07 17:10		
Aluminum	0.0496	mg/L	0.10	98	70	130	0.0	20	
Arsenic	0.0520	mg/L	0.0010	102	70	130	0.5	20	
Barium	0.0619	mg/L	0.10	104	70	130	0.0	20	
Cadmium	0.0481	mg/L	0.010	96	70	130	2.4	20	
Chromium	0.0491	mg/L	0.050	98	70	130	0.0	20	
Copper	0.0476	mg/L	0.010	92	70	130	1.6	20	
Lead	0.0521	mg/L	0.050	104	70	130	0.3	20	
Manganese	0.445	mg/L	0.010		70	130	0.3	20	A
Mercury	0.00545	mg/L	0.0010	109	70	130	0.4	20	
Molybdenum	0.0489	mg/L	0.10	96	70	130	0.0	20	
Nickel	0.0489	mg/L	0.050	92	70	130	0.0	20	
Selenium	0.0504	mg/L	0.0010	98	70	130	0.2	20	
Silver	0.0163	mg/L	0.010	82	70	130	0.7	20	
Vanadium	0.0498	mg/L	0.10	99	70	130	0.0	20	
Zinc	0.0500	mg/L	0.010	93	70	130	3.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R91138		
Sample ID: LRB	Method Blank				Run: SUB-C91138		10/11/07 12:05		
Lead	ND	mg/L	2E-05						
Mercury	4E-05	mg/L	6E-06						
Thorium 232	0.0001	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C91138		10/11/07 12:13		
Lead	0.0507	mg/L	0.0010	101	85	115			
Mercury	0.00526	mg/L	0.0010	104	85	115			
Thorium 232	0.0498	mg/L	0.0010	99	85	115			
Uranium	0.0491	mg/L	0.00030	98	85	115			
Sample ID: R07100002-010C	Post Digestion Spike				Run: SUB-C91138		10/11/07 16:18		
Lead	0.0513	mg/L	0.050	101	70	130			
Mercury	0.00515	mg/L	0.0010	102	70	130			
Thorium 232	0.0574	mg/L	0.0010	111	70	130			
Uranium	0.0580	mg/L	0.00030	112	70	130			
Sample ID: R07100002-010C	Post Digestion Spike Duplicate				Run: SUB-C91138		10/11/07 16:26		
Lead	0.0514	mg/L	0.050	101	70	130	0.2	20	
Mercury	0.00519	mg/L	0.0010	103	70	130	0.8	20	
Thorium 232	0.0576	mg/L	0.0010	111	70	130	0.4	20	
Uranium	0.0572	mg/L	0.00030	111	70	130	1.5	20	
Method: E200.8							Batch: C_R91375		
Sample ID: LRB	Method Blank				Run: SUB-C91375		10/17/07 10:20		
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C91375		10/17/07 10:27		
Uranium	0.0516	mg/L	0.00030	103	85	115			
Sample ID: R07100002-001C	Post Digestion Spike				Run: SUB-C91375		10/17/07 12:28		
Uranium	0.0558	mg/L	0.00030	108	70	130			
Sample ID: R07100002-001C	Post Digestion Spike Duplicate				Run: SUB-C91375		10/17/07 12:35		
Uranium	0.0554	mg/L	0.00030	107	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R31616		
Sample ID: LFB0709285802-3	Laboratory Fortified Blank					Run: DIONEX_070928A	09/28/07 21:11		
Chloride	4.70	mg/L	0.50	94	90	110			
Fluoride	2.01	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.39	mg/L	0.10	96	90	110			
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	90	110			
Sample ID: LFB0709285802-4	Laboratory Fortified Blank					Run: DIONEX_070928A	09/28/07 21:27		
Nitrogen, Nitrate as N	2.68	mg/L	0.10	107	90	110			
Sample ID: R07100002-001AMS	Sample Matrix Spike					Run: DIONEX_070928A	09/29/07 20:57		
Chloride	97.4	mg/L	0.50		80	120			A
Fluoride	2.27	mg/L	0.10	91	80	120			
Nitrogen, Nitrate as N	2.23	mg/L	0.10	89	80	120			
Nitrogen, Nitrite as N	3.66	mg/L	0.10	146	80	120			S
Sample ID: R07100002-001AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_070928A	09/29/07 21:13		
Chloride	96.9	mg/L	0.50		80	120	0.4	10	A
Fluoride	2.24	mg/L	0.10	89	80	120	1.3	10	
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	80	120	3.5	10	
Nitrogen, Nitrite as N	3.85	mg/L	0.10	154	80	120	5.1	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R31638
Sample ID: LFB0710013150-3	Laboratory Fortified Blank					Run: DIONEX_071001A			10/01/07 20:24
Chloride	4.94	mg/L	0.50	99	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: LFB0710013150-4	Laboratory Fortified Blank					Run: DIONEX_071001A			10/01/07 20:40
Chloride	4.65	mg/L	0.50	93	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R07090389-003BMS	Sample Matrix Spike					Run: DIONEX_071001A			10/02/07 07:04
Chloride	494	mg/L	4.0	92	80	120			
Sulfate	6780	mg/L	72	117	80	120			
Sample ID: R07090389-003BMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071001A			10/02/07 07:20
Chloride	482	mg/L	4.0	89	80	120	2.4	10	
Sulfate	6530	mg/L	72	100	80	120	6.4	10	
Sample ID: R07100002-007AMS	Sample Matrix Spike					Run: DIONEX_071001A			10/02/07 10:21
Chloride	560	mg/L	4.0	96	80	120			
Sulfate	4960	mg/L	72	116	80	120			
Sample ID: R07100002-007AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071001A			10/02/07 10:37
Chloride	544	mg/L	4.0	93	80	120	2.9	10	
Sulfate	4980	mg/L	72	118	80	120	5.4	10	
Method: E300.0									Batch: R31689
Sample ID: LFB0710040616-3	Laboratory Fortified Blank					Run: DIONEX_071004A			10/04/07 19:28
Chloride	5.09	mg/L	0.50	102	90	110			
Sample ID: LFB0710040616-4	Laboratory Fortified Blank					Run: DIONEX_071004A			10/04/07 19:44
Chloride	4.53	mg/L	0.50	91	90	110			
Sample ID: R07100091-001AMS	Sample Matrix Spike					Run: DIONEX_071004A			10/04/07 23:51
Chloride	194	mg/L	0.50		80	120			A
Sample ID: R07100091-001AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071004A			10/05/07 00:07
Chloride	194	mg/L	0.50		80	120	0.2	10	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0331
Sample ID: RB-GrAB-0331	Method Blank					Run: SUB-C91233			10/13/07 02:39
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0331	Laboratory Control Sample					Run: SUB-C91233			10/13/07 02:39
Gross Alpha	300	pCi/L	1.0	111	70	130			
Sample ID: C07091288-002AMS	Sample Matrix Spike					Run: SUB-C91233			10/13/07 02:39
Gross Alpha	200	pCi/L	1.0	86	70	130			
Sample ID: C07091288-002AMSD	Sample Matrix Spike Duplicate					Run: SUB-C91233			10/13/07 02:39
Gross Alpha	200	pCi/L	1.0	82	70	130	4.1	13.7	
Sample ID: Cs137-GrAB-0331	Laboratory Control Sample					Run: SUB-C91233			10/13/07 02:39
Gross Beta	90	pCi/L	2.0	93	70	130			
Sample ID: C07091288-002AMS	Sample Matrix Spike					Run: SUB-C91233			10/13/07 02:39
Gross Beta	90	pCi/L	2.0	90	70	130			
Sample ID: C07091288-002AMSD	Sample Matrix Spike Duplicate					Run: SUB-C91233			10/13/07 02:39
Gross Beta	90	pCi/L	2.0	90	70	130	0.5	15.5	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R91554		
Sample ID: LCS-R91554	Laboratory Control Sample				Run: SUB-C91554			10/18/07 10:39	
Americium 241	760	pCi/L	20	93	70	130			
Cesium 137	1200	pCi/L	20	110	70	130			
Potassium 40	7200	pCi/L	20	108	70	130			
Sample ID: MB-R91554	Method Blank				Run: SUB-C91554			10/18/07 10:39	
Americium 241	ND	pCi/L	20						
Barium 133	ND	pCi/L	20						
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Sample ID: R07100002-002E	Sample Duplicate				Run: SUB-C91554			10/18/07 10:39	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2362		
Sample ID: R07100002-001E	Sample Matrix Spike				Run: SUB-C91384				10/16/07 15:05
Radium 226	29	pCi/L	0.20	104	70	130			
Sample ID: R07100002-001E	Sample Matrix Spike Duplicate				Run: SUB-C91384				10/16/07 15:05
Radium 226	25	pCi/L	0.20	82	70	130	18	26.6	
Sample ID: MB-RA226-2362	Method Blank				Run: SUB-C91384				10/16/07 16:09
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2362	Laboratory Control Sample				Run: SUB-C91384				10/17/07 07:54
Radium 226	12	pCi/L	0.20	98	70	130			
Method: E903.0							Batch: C_RA226-2389		
Sample ID: C07091026-001AMS	Sample Matrix Spike				Run: SUB-C92060				10/31/07 12:04
Radium 226	15	pCi/L	1.0	71	70	130			
- MSD recovery low, but MS and RPD are within limits, LCS <70% but acceptable according to Control Charts so the batch was approved.									
Sample ID: C07091026-001AMS	Sample Matrix Spike Duplicate				Run: SUB-C92060				10/31/07 12:04
Radium 226	13	pCi/L	1.0	63	70	130	13	28.3	S
- MSD recovery low, but MS and RPD are within limits, LCS <70% but acceptable according to Control Charts so the batch was approved.									
Sample ID: MB-RA226-2389	Method Blank				Run: SUB-C92060				10/31/07 14:46
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2389	Laboratory Control Sample				Run: SUB-C92060				10/31/07 14:46
Radium 226	8.8	pCi/L	0.20	69	70	130			S
MSD recovery low, but MS and RPD are within limits, LCS <70% but acceptable according to Control Charts so the batch was approved.									
Method: E907.0							Batch: C_R92402		
Sample ID: LCS-R92402	Laboratory Control Sample				Run: SUB-C92402				10/31/07 00:00
Thorium 230	6.1	pCi/L	0.20	103	70	130			
Sample ID: R07100002-005E	Sample Matrix Spike				Run: SUB-C92402				10/31/07 11:00
Thorium 230	18	pCi/L	0.20	93	70	130			
Sample ID: R07100002-005E	Sample Matrix Spike Duplicate				Run: SUB-C92402				10/31/07 11:00
Thorium 230	19	pCi/L	0.20	99	70	130	6.4	30	
Sample ID: MB-R92402	Method Blank				Run: SUB-C92402				10/31/07 00:00
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07100002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R92397		
Sample ID: LCS-R92397	Laboratory Control Sample				Run: SUB-C92397		10/29/07 08:20		
Lead 210	79	pCi/L	1.0	98	70	130			
Sample ID: R07100002-001E	Sample Matrix Spike				Run: SUB-C92397		10/29/07 08:20		
Lead 210	390	pCi/L	1.0	96	70	130			
Sample ID: R07100002-001E	Sample Matrix Spike Duplicate				Run: SUB-C92397		10/29/07 08:20		
Lead 210	420	pCi/L	1.0	105	70	130	8.9	30	
Sample ID: MB-R92397	Method Blank				Run: SUB-C92397		10/29/07 08:20		
Lead 210	ND	pCi/L	1						
Method: RMO-3008							Batch: C_R92278		
Sample ID: R07100002-005E	Sample Matrix Spike				Run: SUB-C92278		11/01/07 14:10		
Polonium 210	82	pCi/L	1.0	73	70	130			
Sample ID: R07100002-005E	Sample Matrix Spike Duplicate				Run: SUB-C92278		11/01/07 14:10		
Polonium 210	98	pCi/L	1.0	88	70	130	18	30	
Sample ID: MB-R92278	Method Blank				Run: SUB-C92278		11/01/07 14:10		
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R92278	Laboratory Control Sample				Run: SUB-C92278		11/01/07 14:10		
Polonium 210	16	pCi/L	1.0	70	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Form

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC		Project Name, PWS #, Permit #, Etc.: PowerTech Denver Burdock	
Report Mail Address:		Contact Name, Phone, Fax, E-mail: Cony Foreman cforeman@respec.com	
Invoice Address:		Invoice Contact & Phone #: Cony Foreman	
Report Required For: <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> DW <input type="checkbox"/> Other _____		Purchase Order #: 605-381-0024	
Special Report Formats - ELL must be notified prior to sample submittal for the following: NELAC <input type="checkbox"/> A2LA <input type="checkbox"/> Level IV <input type="checkbox"/> Other _____		Sampler Name if other than Contact: ELI KENNEDY	
EDD/EDT <input type="checkbox"/> Format _____		ELI Quote #:	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Notify ELL prior to RUSH sample submittal for additional charges and scheduling	
Collection Date		Collection Time	
Number of Containers		Sample Type: A W S V B C	
Matrix		Air Water Soils/Solids Vegetation Bioassay Other	
ANALYSIS REQUESTED		SEE ATTACHED	
Normal Turnaround (TAT)		RUSH Turnaround (TAT)	
Comments:		Custody Seal Y N	
Intact Y N		Signature Match Y N	
Lab ID		Receipt Temp 6.1 °C	
Cooler ID(s)		LABORATORY USE ONLY	
Date/Time		Date/Time	
Relinquished by: [Signature]		Received by: [Signature]	
Date/Time: 9/29/07 0758		Date/Time: 9/29/07 0758	
Shipped by:		Shipped by:	
Sample Type:		# of fractions	
Return to client:		Lab Disposal:	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



Chain of Custody and Analytical Request Record

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: PERPEC		Project Name, PWS #, Permit #, Etc.: PowerTech Perry Burdock	
Report Mail Address:		Contact Name, Phone, Fax, E-mail: Cory Foreman cforeman@perpec.com	
Invoice Address:		Invoice Contact & Phone #: 605-381-0024 Cory Foreman	
Report Required For: <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> DW <input type="checkbox"/>		ANALYSIS REQUESTED	
Special Report Formats - ELI must be notified prior to sample submittal for the following: NELAC <input type="checkbox"/> A2LA <input type="checkbox"/> Level IV <input type="checkbox"/>		Number of Containers Sample Type: A W S V B O Air Water Soil/Solids Vegetation Bioassay Other	
Other: _____			
EDD/EDT <input type="checkbox"/> Formal _____		SEE ATTACHED	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Normal Turnaround (TAT)	
1 Dev Burd GW650	Collection Date: 9/28/07	Collection Time: 19:00	RUSH Turnaround (TAT)
2			Notify ELI prior to RUSH sample submittal for additional charges and scheduling
3			Comments:
4			LABORATORY USE ONLY
5			Receipt Temp _____ °C
6			Cooler ID(s) _____
7			Custody Seal Y N
8			Intact Y N
9			Signature Y N
10			Match _____
Custody Record MUST be Signed		Purchase Order #: 605-381-7605	
Retrievable by: GSW		Sampler Name if other than Contact: Eric Krantz	
Date/Time: 9/24/07 0758		ELI Quote #:	
Shipped by:		LABORATORY USE ONLY	
Date/Time: _____		# of fractions _____	
Received by: Eric Krantz		Date/Time: 9/29/07 0758	
Date/Time: _____			

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

December 19, 2007

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07110146 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 10 samples from RESPEC Inc on 11/13/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07110146-001	DewBurdGW7002	11/12/07 8:10	11/13/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R07110146-002	DewBurdGW7	11/12/07 8:20	11/13/07	Aqueous	Same As Above
R07110146-003	DewBurdGW2	11/12/07 9:25	11/13/07	Aqueous	Same As Above
R07110146-004	DewBurdGW18	11/12/07 10:15	11/13/07	Aqueous	Same As Above
R07110146-005	DewBurdGW18	11/12/07 10:20	11/13/07	Aqueous	Same As Above
R07110146-006	DewBurdGW42	11/12/07 11:20	11/13/07	Aqueous	Same As Above
R07110146-007	DewBurdGW13	11/12/07 12:15	11/13/07	Aqueous	Same As Above
R07110146-008	DewBurdGW619	11/12/07 14:25	11/13/07	Aqueous	Same As Above
R07110146-009	DewBurdGW650	11/12/07 15:30	11/13/07	Aqueous	Same As Above
R07110146-010	DewBurdGW16	11/12/07 16:05	11/13/07	Aqueous	Same As Above



Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By:

Linda Larson

Rapid City - Project Manager



Date: 19-Dec-07

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R07110146

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report and
- The "D" qualifier on the sodium value (only) indicates that the project specific minimum report limit of 0.5mg/L was not supported by MDL data on the ICP instrument. Therefore, the report limit for sodium was derated to the listed value.

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

- eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
- eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
- eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
- eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
- eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
- eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-001
 Client Sample ID: DewBurdGW7002

Report Date: 12/19/07
 Collection Date: 11/12/07 08:10
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	250	mg/L		5		1	A2320 B	11/26/07 15:54/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/26/07 15:54/sn
Bicarbonate as HCO3	305	mg/L		5		1	A2320 B	11/26/07 15:54/sn
Calcium	237	mg/L		0.5		1	E200.7	11/27/07 16:50/eli-c
Magnesium	90.4	mg/L		0.5		1	E200.7	11/27/07 16:50/eli-c
Potassium	22.2	mg/L		0.5		1	E200.7	11/27/07 16:50/eli-c
Silica	8.2	mg/L		0.5		1	E200.7	11/27/07 16:50/eli-c
Sodium	192	mg/L	D	0.8		1	E200.7	11/27/07 16:50/eli-c
Chloride	11	mg/L		1		1	E300.0	11/14/07 20:00/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/14/07 20:00/jmh
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	11/13/07 17:28/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/14/07 20:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/14/07 20:00/jmh
Sulfate	1040	mg/L	D	40		50	E300.0	11/14/07 19:13/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2210	umhos/cm		5		1	A2510 B	11/16/07 18:12/jmh
Oxidation-Reduction Potential	190	mV				1	A2580 B	11/13/07 09:00/sn
pH	7.22	s.u.		0.01		1	A4500-H B	11/16/07 14:04/jmh
Sodium Adsorption Ratio (SAR)	2.7			0.10		1	Calculation	12/10/07 16:45/kl
Solids, Total Dissolved TDS @ 180 C	1900	mg/L		5		1	A2540 C	11/15/07 16:02/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/15/07 19:07/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/15/07 19:07/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/15/07 19:07/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 16:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/15/07 19:07/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/15/07 19:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/15/07 19:07/eli-c
Iron	0.25	mg/L		0.03		1	E200.7	11/27/07 16:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/15/07 19:07/eli-c
Manganese	0.37	mg/L		0.01		1	E200.8	11/15/07 19:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/15/07 19:07/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/15/07 19:07/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/15/07 19:07/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 13:29/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/15/07 19:07/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Page 1 of 30



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-001
 Client Sample ID: DewBurdGW7002

Report Date: 12/19/07
 Collection Date: 11/12/07 08:10
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	11/15/07 19:07/eli-c
Uranium	0.0006	mg/L		0.0003			1	E200.8	11/15/07 19:07/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	11/15/07 19:07/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	11/15/07 19:07/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	11/21/07 03:01/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.001			1	E200.8	11/19/07 18:20/eli-c
METALS - DISSOLVED - SPECIATED									
Selenium-IV	ND	mg/L		0.0010			1	A3114 B	11/28/07 09:00/eli-c
Selenium-VI	ND	mg/L		0.0010			1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	39.8	pCi/L		1.0			1	E900.0	12/03/07 03:33/eli-c
Gross Alpha precision (±)	2.1	pCi/L					1	E900.0	12/03/07 03:33/eli-c
Gross Beta	34.1	pCi/L		2.0			1	E900.0	12/03/07 03:33/eli-c
Gross Beta precision (±)	3.9	pCi/L					1	E900.0	12/03/07 03:33/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	11/19/07 10:35/eli-c
Polonium 210	4.1	pCi/L		1.0			1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	2.6	pCi/L					1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	8.1	pCi/L		0.2			1	E903.0	11/25/07 13:07/eli-c
Radium 226 precision (±)	0.9	pCi/L					1	E903.0	11/25/07 13:07/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/21/07 14:10/eli-c
Gross Gamma	1600	pCi/L		20			1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	500	pCi/L					1	E901.1	11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/02/07 09:55/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	938	pCi/L		100			1	D5072-92	11/15/07 18:10/eli-c
Radon 222 precision (±)	74.1	pCi/L					1	D5072-92	11/15/07 18:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-001
 Client Sample ID: DewBurdGW7002

Report Date: 12/19/07
 Collection Date: 11/12/07 08:10
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	2.47	%					1	A1030 E 12/10/07 16:38/eli-c
Anions	26.9	meq/L					1	A1030 E 12/10/07 16:38/eli-c
Cations	28.2	meq/L					1	A1030 E 12/10/07 16:38/eli-c
Solids, Total Dissolved Calculated	1750	mg/L					1	A1030 E 12/10/07 16:38/eli-c
TDS Balance (0.80 - 1.20)	1.09	dec. %					1	A1030 E 12/10/07 16:38/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110146-002
Client Sample ID: DewBurdGW7

Report Date: 12/19/07
Collection Date: 11/12/07 08:20
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	170	mg/L		5			1	A2320 B	11/26/07 15:56/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/26/07 15:56/sn
Bicarbonate as HCO3	207	mg/L		5			1	A2320 B	11/26/07 15:56/sn
Calcium	36.0	mg/L		0.5			1	E200.7	11/27/07 16:53/eli-c
Magnesium	15.3	mg/L		0.5			1	E200.7	11/27/07 16:53/eli-c
Potassium	11.1	mg/L		0.5			1	E200.7	11/27/07 16:53/eli-c
Silica	7.8	mg/L		0.5			1	E200.7	11/27/07 16:53/eli-c
Sodium	289	mg/L	D	0.8			1	E200.7	11/27/07 16:53/eli-c
Chloride	12	mg/L		1			1	E300.0	11/14/07 20:32/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	11/14/07 20:32/jmh
Nitrogen, Ammonia as N	0.4	mg/L		0.1			1	A4500-NH3 G	11/13/07 17:32/jmh
Nitrogen, Nitrate as N	0.1	mg/L		0.1			1	E300.0	11/14/07 20:32/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/14/07 20:32/jmh
Sulfate	567	mg/L	D	40			50	E300.0	11/14/07 20:16/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1440	umhos/cm		5			1	A2510 B	11/16/07 18:14/jmh
Oxidation-Reduction Potential	210	mV					1	A2580 B	11/13/07 09:00/sn
pH	8.05	s.u.		0.01			1	A4500-H B	11/16/07 14:08/jmh
Sodium Adsorption Ratio (SAR)	10			0.10			1	Calculation	12/10/07 16:45/kl
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5			1	A2540 C	11/15/07 16:03/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	11/15/07 19:13/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	11/15/07 19:13/eli-c
Barium	ND	mg/L		0.1			1	E200.8	11/15/07 19:13/eli-c
Boron	ND	mg/L		0.1			1	E200.7	11/27/07 16:53/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/15/07 19:13/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	11/15/07 19:13/eli-c
Copper	ND	mg/L		0.01			1	E200.8	11/15/07 19:13/eli-c
Iron	ND	mg/L		0.03			1	E200.7	11/27/07 16:53/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/15/07 19:13/eli-c
Manganese	0.03	mg/L		0.01			1	E200.8	11/15/07 19:13/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	11/15/07 19:13/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	11/15/07 19:13/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	11/15/07 19:13/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	11/28/07 13:31/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/15/07 19:13/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-002
 Client Sample ID: DewBurdGW7

Report Date: 12/19/07
 Collection Date: 11/12/07 08:20
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	11/15/07 19:13/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	11/15/07 19:13/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	11/15/07 19:13/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	11/15/07 19:13/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	11/21/07 03:08/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.001			1	E200.8	11/19/07 18:27/eli-c
METALS - DISSOLVED - SPECIATED									
Selenium-IV	ND	mg/L		0.0010			1	A3114 B	11/28/07 09:02/eli-c
Selenium-VI	ND	mg/L		0.0010			1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	7.2	pCi/L		1.0			1	E900.0	12/03/07 03:32/eli-c
Gross Alpha precision (±)	1.1	pCi/L					1	E900.0	12/03/07 03:32/eli-c
Gross Beta	14.9	pCi/L		2.0			1	E900.0	12/03/07 03:32/eli-c
Gross Beta precision (±)	2.5	pCi/L					1	E900.0	12/03/07 03:32/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	11/19/07 10:35/eli-c
Polonium 210	2.1	pCi/L		1.0			1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.7	pCi/L					1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	1.1	pCi/L		0.2			1	E903.0	11/25/07 16:09/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	11/25/07 16:09/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/21/07 14:10/eli-c
Gross Gamma	130	pCi/L		20			1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	39	pCi/L					1	E901.1	11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/02/07 10:55/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	206	pCi/L		100			1	D5072-92	11/15/07 18:10/eli-c
Radon 222 precision (±)	65.0	pCi/L					1	D5072-92	11/15/07 18:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110146-002
Client Sample ID: DewBurdGW7

Report Date: 12/19/07
Collection Date: 11/12/07 08:20
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
A/C Balance (± 5)	1.13	%					1	A1030 E	12/10/07 16:39/eli-c
Anions	15.6	meq/L					1	A1030 E	12/10/07 16:39/eli-c
Cations	15.9	meq/L					1	A1030 E	12/10/07 16:39/eli-c
Solids, Total Dissolved Calculated	1040	mg/L					1	A1030 E	12/10/07 16:39/eli-c
TDS Balance (0.80 - 1.20)	0.980	dec. %					1	A1030 E	12/10/07 16:39/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-003
 Client Sample ID: DewBurdGW2

Report Date: 12/19/07
 Collection Date: 11/12/07 09:25
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	208	mg/L		5		1	A2320 B	11/26/07 15:58/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/26/07 15:58/sn
Bicarbonate as HCO3	254	mg/L		5		1	A2320 B	11/26/07 15:58/sn
Calcium	51.7	mg/L		0.5		1	E200.7	11/27/07 16:57/eli-c
Magnesium	16.6	mg/L		0.5		1	E200.7	11/27/07 16:57/eli-c
Potassium	11.4	mg/L		0.5		1	E200.7	11/27/07 16:57/eli-c
Silica	8.1	mg/L		0.5		1	E200.7	11/27/07 16:57/eli-c
Sodium	286	mg/L	D	0.8		1	E200.7	11/27/07 16:57/eli-c
Chloride	11	mg/L		1		1	E300.0	11/14/07 21:04/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/14/07 21:04/jmh
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	11/13/07 17:33/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/14/07 21:04/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/14/07 21:04/jmh
Sulfate	577	mg/L	D	40		50	E300.0	11/14/07 20:48/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1500	umhos/cm		5		1	A2510 B	11/16/07 18:15/jmh
Oxidation-Reduction Potential	140	mV				1	A2580 B	11/13/07 09:00/sn
pH	7.85	s.u.		0.01		1	A4500-H B	11/16/07 14:10/jmh
Sodium Adsorption Ratio (SAR)	8.8			0.10		1	Calculation	12/10/07 16:45/lkl
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C	11/15/07 16:03/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/15/07 19:20/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/15/07 19:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/15/07 19:20/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 16:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/15/07 19:20/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/15/07 19:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/15/07 19:20/eli-c
Iron	ND	mg/L		0.03		1	E200.7	11/27/07 16:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/15/07 19:20/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	11/15/07 19:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/15/07 19:20/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/15/07 19:20/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/15/07 19:20/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 13:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/15/07 19:20/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-003
 Client Sample ID: DewBurdGW2

Report Date: 12/19/07
 Collection Date: 11/12/07 09:25
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	11/15/07 19:20/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	11/15/07 19:20/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/15/07 19:20/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/15/07 19:20/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/21/07 03:14/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.001		1	E200.8	11/19/07 18:34/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium-IV	ND	mg/L		0.0010		1	A3114 B	11/28/07 09:04/eli-c
Selenium-VI	ND	mg/L		0.0010		1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	8.7	pCi/L		1.0		1	E900.0	12/03/07 03:32/eli-c
Gross Alpha precision (±)	1.1	pCi/L				1	E900.0	12/03/07 03:32/eli-c
Gross Beta	12.4	pCi/L		2.0		1	E900.0	12/03/07 03:32/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	12/03/07 03:32/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/19/07 10:35/eli-c
Polonium 210	2.0	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	1.3	pCi/L		0.2		1	E903.0	11/25/07 17:09/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	11/25/07 17:09/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/21/07 14:10/eli-c
Gross Gamma	260	pCi/L		20		1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	49	pCi/L				1	E901.1	11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/02/07 11:55/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	674	pCi/L		100		1	D5072-92	11/15/07 18:10/eli-c
Radon 222 precision (±)	70.4	pCi/L				1	D5072-92	11/15/07 18:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110146-003
Client Sample ID: DewBurdGW2

Report Date: 12/19/07
Collection Date: 11/12/07 09:25
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	0.663	%				1	A1030 E	12/10/07 16:39/eli-c
Anions	16.5	meq/L				1	A1030 E	12/10/07 16:39/eli-c
Cations	16.7	meq/L				1	A1030 E	12/10/07 16:39/eli-c
Solids, Total Dissolved Calculated	1090	mg/L				1	A1030 E	12/10/07 16:39/eli-c
TDS Balance (0.80 - 1.20)	0.970	dec. %				1	A1030 E	12/10/07 16:39/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-004
 Client Sample ID: DewBurdGW18

Report Date: 12/19/07
 Collection Date: 11/12/07 10:15
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	176	mg/L		5		1	A2320 B	11/26/07 16:00/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/26/07 16:00/sn
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B	11/26/07 16:00/sn
Calcium	33.0	mg/L		0.5		1	E200.7	11/27/07 17:00/eli-c
Magnesium	11.6	mg/L		0.5		1	E200.7	11/27/07 17:00/eli-c
Potassium	7.0	mg/L		0.5		1	E200.7	11/27/07 17:00/eli-c
Silica	7.3	mg/L		0.5		1	E200.7	11/27/07 17:00/eli-c
Sodium	280	mg/L	D	0.8		1	E200.7	11/27/07 17:00/eli-c
Chloride	13	mg/L		1		1	E300.0	11/14/07 21:36/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/14/07 21:36/jmh
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/13/07 17:34/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/14/07 21:36/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/14/07 21:36/jmh
Sulfate	534	mg/L	D	40		50	E300.0	11/14/07 21:20/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1360	umhos/cm		5		1	A2510 B	11/16/07 18:15/jmh
Oxidation-Reduction Potential	80	mV				1	A2580 B	11/13/07 09:00/sn
pH	8.02	s.u.		0.01		1	A4500-H B	11/16/07 14:12/jmh
Sodium Adsorption Ratio (SAR)	11			0.10		1	Calculation	12/10/07 16:45/kl
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5		1	A2540 C	11/15/07 16:05/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/15/07 19:27/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/15/07 19:27/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/15/07 19:27/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 17:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/15/07 19:27/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/15/07 19:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/15/07 19:27/eli-c
Iron	ND	mg/L		0.03		1	E200.7	11/27/07 17:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/15/07 19:27/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	11/15/07 19:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/15/07 19:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/15/07 19:27/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/15/07 19:27/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 13:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/15/07 19:27/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-004
 Client Sample ID: DewBurdGW18

Report Date: 12/19/07
 Collection Date: 11/12/07 10:15
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 11/15/07 19:27/eli-c
Uranium	0.0066	mg/L		0.0003		1	E200.8 11/15/07 19:27/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 11/15/07 19:27/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 11/15/07 19:27/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 11/21/07 03:21/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.001		1	E200.8 11/19/07 18:40/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium-IV	ND	mg/L		0.0010		1	A3114 B 11/28/07 09:06/eli-c
Selenium-VI	ND	mg/L		0.0010		1	A3114 B 11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	18.9	pCi/L		1.0		1	E900.0 12/03/07 03:32/eli-c
Gross Alpha precision (±)	1.3	pCi/L				1	E900.0 12/03/07 03:32/eli-c
Gross Beta	12.1	pCi/L		2.0		1	E900.0 12/03/07 03:32/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0 12/03/07 03:32/eli-c
Lead 210	4.6	pCi/L		1.0		1	E909.0M 11/19/07 10:35/eli-c
Lead 210 precision (±)	1.1	pCi/L				1	E909.0M 11/19/07 10:35/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/20/07 13:30/eli-c
Radium 226	3.2	pCi/L		0.2		1	E903.0 11/25/07 18:10/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0 11/25/07 18:10/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/21/07 14:10/eli-c
Gross Gamma	370	pCi/L		20		1	E901.1 11/16/07 10:50/eli-c
Gross Gamma precision (±)	61	pCi/L				1	E901.1 11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/02/07 12:56/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	945	pCi/L		100		1	D5072-92 11/15/07 18:10/eli-c
Radon 222 precision (±)	73.2	pCi/L				1	D5072-92 11/15/07 18:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110146-004
Client Sample ID: DewBurdGW18

Report Date: 12/19/07
Collection Date: 11/12/07 10:15
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	-0.239	%					1	A1030 E 12/10/07 16:39/eli-c
Anions	15.0	meq/L					1	A1030 E 12/10/07 16:39/eli-c
Cations	15.0	meq/L					1	A1030 E 12/10/07 16:39/eli-c
Solids, Total Dissolved Calculated	994	mg/L					1	A1030 E 12/10/07 16:39/eli-c
TDS Balance (0.80 - 1.20)	0.970	dec. %					1	A1030 E 12/10/07 16:39/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-005
 Client Sample ID: DewBurdGW18

Report Date: 12/19/07
 Collection Date: 11/12/07 10:20
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	172	mg/L		5			1	A2320 B	11/26/07 16:02/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/26/07 16:02/sn
Bicarbonate as HCO3	210	mg/L		5			1	A2320 B	11/26/07 16:02/sn
Calcium	32.5	mg/L		0.5			1	E200.7	11/27/07 17:03/eli-c
Magnesium	11.4	mg/L		0.5			1	E200.7	11/27/07 17:03/eli-c
Potassium	7.0	mg/L		0.5			1	E200.7	11/27/07 17:03/eli-c
Silica	7.3	mg/L		0.5			1	E200.7	11/27/07 17:03/eli-c
Sodium	276	mg/L	D	0.8			1	E200.7	11/27/07 17:03/eli-c
Chloride	13	mg/L		1			1	E300.0	11/14/07 22:08/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	11/14/07 22:08/jmh
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	11/13/07 17:35/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	11/14/07 22:08/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/14/07 22:08/jmh
Sulfate	536	mg/L	D	40			50	E300.0	11/14/07 21:52/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1330	umhos/cm		5			1	A2510 B	11/16/07 18:16/jmh
Oxidation-Reduction Potential	85	mV					1	A2580 B	11/13/07 09:00/sn
pH	8.06	s.u.		0.01			1	A4500-H B	11/16/07 14:13/jmh
Sodium Adsorption Ratio (SAR)	11			0.10			1	Calculation	12/10/07 16:45/kl
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5			1	A2540 C	11/15/07 16:06/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	11/15/07 19:34/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	11/15/07 19:34/eli-c
Barium	ND	mg/L		0.1			1	E200.8	11/15/07 19:34/eli-c
Boron	ND	mg/L		0.1			1	E200.7	11/27/07 17:03/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/15/07 19:34/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	11/15/07 19:34/eli-c
Copper	ND	mg/L		0.01			1	E200.8	11/15/07 19:34/eli-c
Iron	ND	mg/L		0.03			1	E200.7	11/27/07 17:03/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/15/07 19:34/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	11/15/07 19:34/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	11/15/07 19:34/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	11/15/07 19:34/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	11/15/07 19:34/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	11/28/07 13:37/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/15/07 19:34/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-005
 Client Sample ID: DewBurdGW18

Report Date: 12/19/07
 Collection Date: 11/12/07 10:20
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	11/15/07 19:34/eli-c
Uranium	0.0065	mg/L		0.0003		1	E200.8	11/15/07 19:34/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/15/07 19:34/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/15/07 19:34/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/21/07 03:28/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.001		1	E200.8	11/19/07 18:47/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium-IV	ND	mg/L		0.0010		1	A3114 B	11/28/07 09:09/eli-c
Selenium-VI	ND	mg/L		0.0010		1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	20.0	pCi/L		1.0		1	E900.0	12/03/07 03:32/eli-c
Gross Alpha precision (±)	1.4	pCi/L				1	E900.0	12/03/07 03:32/eli-c
Gross Beta	13.0	pCi/L		2.0		1	E900.0	12/03/07 03:32/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	12/03/07 03:32/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/19/07 10:35/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	3.6	pCi/L		0.2		1	E903.0	11/25/07 19:10/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	11/25/07 19:10/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/21/07 14:10/eli-c
Gross Gamma	330	pCi/L		20		1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	62	pCi/L				1	E901.1	11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/02/07 13:56/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	944	pCi/L		100		1	D5072-92	11/15/07 18:10/eli-c
Radon 222 precision (±)	73.2	pCi/L				1	D5072-92	11/15/07 18:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-005
 Client Sample ID: DewBurdGW18

Report Date: 12/19/07
 Collection Date: 11/12/07 10:20
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
DATA QUALITY								
A/C Balance (± 5)	-0.843	%				1	A1030 E	12/10/07 16:39/eli-c
Anions	15.0	meq/L				1	A1030 E	12/10/07 16:39/eli-c
Cations	14.7	meq/L				1	A1030 E	12/10/07 16:39/eli-c
Solids, Total Dissolved Calculated	988	mg/L				1	A1030 E	12/10/07 16:39/eli-c
TDS Balance (0.80 - 1.20)	0.970	dec. %				1	A1030 E	12/10/07 16:39/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-006
 Client Sample ID: DewBurdGW42

Report Date: 12/19/07
 Collection Date: 11/12/07 11:20
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B	11/26/07 16:04/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/26/07 16:04/sn
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B	11/26/07 16:04/sn
Calcium	34.0	mg/L		0.5		1	E200.7	11/27/07 17:07/eli-c
Magnesium	11.8	mg/L		0.5		1	E200.7	11/27/07 17:07/eli-c
Potassium	7.2	mg/L		0.5		1	E200.7	11/27/07 17:07/eli-c
Silica	7.2	mg/L		0.5		1	E200.7	11/27/07 17:07/eli-c
Sodium	270	mg/L	D	0.8		1	E200.7	11/27/07 17:07/eli-c
Chloride	13	mg/L		1		1	E300.0	11/14/07 23:43/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/14/07 23:43/jmh
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	11/13/07 17:36/jmh
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	11/14/07 23:43/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/14/07 23:43/jmh
Sulfate	519	mg/L	D	40		50	E300.0	11/14/07 22:55/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1310	umhos/cm		5		1	A2510 B	11/16/07 18:17/jmh
Oxidation-Reduction Potential	240	mV				1	A2580 B	11/13/07 09:00/sn
pH	7.95	s.u.		0.01		1	A4500-H B	11/16/07 14:14/jmh
Sodium Adsorption Ratio (SAR)	10			0.10		1	Calculation	12/10/07 16:45/kl
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5		1	A2540 C	11/15/07 16:06/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/15/07 19:40/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/15/07 19:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/15/07 19:40/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 17:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/15/07 19:40/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/15/07 19:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/15/07 19:40/eli-c
Iron	ND	mg/L		0.03		1	E200.7	11/27/07 17:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/15/07 19:40/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	11/15/07 19:40/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/15/07 19:40/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/15/07 19:40/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/15/07 19:40/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 13:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/15/07 19:40/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110146-006
Client Sample ID: DewBurdGW42

Report Date: 12/19/07
Collection Date: 11/12/07 11:20
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	11/15/07 19:40/eli-c
Uranium	0.0324	mg/L		0.0003		1	E200.8	11/15/07 19:40/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/15/07 19:40/eli-c
Zinc	0.03	mg/L		0.01		1	E200.8	11/15/07 19:40/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/21/07 03:34/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.001		1	E200.8	11/19/07 19:08/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium-IV	ND	mg/L		0.0010		1	A3114 B	11/28/07 09:11/eli-c
Selenium-VI	ND	mg/L		0.0010		1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	375	pCi/L		1.0		1	E900.0	12/03/07 03:32/eli-c
Gross Alpha precision (±)	4.5	pCi/L				1	E900.0	12/03/07 03:32/eli-c
Gross Beta	173	pCi/L		2.0		1	E900.0	12/03/07 03:32/eli-c
Gross Beta precision (±)	4.5	pCi/L				1	E900.0	12/03/07 03:32/eli-c
Lead 210	21	pCi/L		1.0		1	E909.0M	11/19/07 10:35/eli-c
Lead 210 precision (±)	2.3	pCi/L				1	E909.0M	11/19/07 10:35/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	102	pCi/L		0.2		1	E903.0	11/25/07 19:59/eli-c
Radium 226 precision (±)	3.6	pCi/L				1	E903.0	11/25/07 19:59/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	11/21/07 14:10/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	11/21/07 14:10/eli-c
Gross Gamma	70000	pCi/L		20		1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	610	pCi/L				1	E901.1	11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	11/26/07 12:30/eli-c
Polonium 210 precision (±)	0.34	pCi/L				1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/02/07 14:57/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	11/26/07 14:10/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	11/26/07 14:10/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-006
 Client Sample ID: DewBurdGW42

Report Date: 12/19/07
 Collection Date: 11/12/07 11:20
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Radon 222	132000	pCi/L		100			1	D5072-92	11/15/07 18:10/eli-c
Radon 222 precision (±)	474	pCi/L					1	D5072-92	11/15/07 18:10/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.342	%					1	A1030 E	12/10/07 16:40/eli-c
Anions	14.7	meq/L					1	A1030 E	12/10/07 16:40/eli-c
Cations	14.6	meq/L					1	A1030 E	12/10/07 16:40/eli-c
Solids, Total Dissolved Calculated	969	mg/L					1	A1030 E	12/10/07 16:40/eli-c
TDS Balance (0.80 - 1.20)	0.970	dec. %					1	A1030 E	12/10/07 16:40/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-007
 Client Sample ID: DewBurdGW13

Report Date: 12/19/07
 Collection Date: 11/12/07 12:15
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	142	mg/L		5			1	A2320 B	11/26/07 16:06/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/26/07 16:06/sn
Bicarbonate as HCO3	173	mg/L		5			1	A2320 B	11/26/07 16:06/sn
Calcium	61.3	mg/L		0.5			1	E200.7	11/27/07 17:10/eli-c
Magnesium	25.1	mg/L		0.5			1	E200.7	11/27/07 17:10/eli-c
Potassium	11.7	mg/L		0.5			1	E200.7	11/27/07 17:10/eli-c
Silica	6.2	mg/L		0.5			1	E200.7	11/27/07 17:10/eli-c
Sodium	175	mg/L	D	0.8			1	E200.7	11/27/07 17:10/eli-c
Chloride	11	mg/L		1			1	E300.0	11/15/07 00:15/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	11/15/07 00:15/jmh
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	11/13/07 17:38/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	11/15/07 00:15/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/15/07 00:15/jmh
Sulfate	520	mg/L	D	40			50	E300.0	11/14/07 23:59/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1140	umhos/cm		5			1	A2510 B	11/16/07 18:18/jmh
Oxidation-Reduction Potential	230	mV					1	A2580 B	11/13/07 09:00/sn
pH	7.75	s.u.		0.01			1	A4500-H B	11/16/07 14:16/jmh
Sodium Adsorption Ratio (SAR)	4.7			0.10			1	Calculation	12/10/07 16:45/kl
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5			1	A2540 C	11/15/07 16:07/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	11/15/07 19:47/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	11/15/07 19:47/eli-c
Barium	ND	mg/L		0.1			1	E200.8	11/15/07 19:47/eli-c
Boron	ND	mg/L		0.1			1	E200.7	11/27/07 17:10/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/15/07 19:47/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	11/15/07 19:47/eli-c
Copper	ND	mg/L		0.01			1	E200.8	11/15/07 19:47/eli-c
Iron	ND	mg/L		0.03			1	E200.7	11/27/07 17:10/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/15/07 19:47/eli-c
Manganese	0.20	mg/L		0.01			1	E200.8	11/15/07 19:47/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	11/15/07 19:47/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	11/15/07 19:47/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	11/15/07 19:47/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	11/28/07 13:41/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/15/07 19:47/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-007
 Client Sample ID: DewBurdGW13

Report Date: 12/19/07
 Collection Date: 11/12/07 12:15
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 11/15/07 19:47/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 11/15/07 19:47/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 11/15/07 19:47/eli-c
Zinc	0.04	mg/L		0.01		1	E200.8 11/15/07 19:47/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 11/21/07 03:41/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.001		1	E200.8 11/19/07 19:14/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium-IV	ND	mg/L		0.0010		1	A3114 B 11/28/07 09:13/eli-c
Selenium-VI	ND	mg/L		0.0010		1	A3114 B 11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	7.5	pCi/L		1.0		1	E900.0 12/03/07 03:32/eli-c
Gross Alpha precision (±)	1.0	pCi/L				1	E900.0 12/03/07 03:32/eli-c
Gross Beta	11.7	pCi/L		2.0		1	E900.0 12/03/07 03:32/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0 12/03/07 03:32/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/19/07 10:35/eli-c
Polonium 210	2.6	pCi/L		1.0		1	RMO-3008 11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.8	pCi/L				1	RMO-3008 11/20/07 13:30/eli-c
Radium 226	1.6	pCi/L		0.2		1	E903.0 11/25/07 21:00/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 11/25/07 21:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/21/07 14:10/eli-c
Gross Gamma	4300	pCi/L		20		1	E901.1 11/16/07 10:50/eli-c
Gross Gamma precision (±)	370	pCi/L				1	E901.1 11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/02/07 15:57/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	305	pCi/L		100		1	D5072-92 11/15/07 18:10/eli-c
Radon 222 precision (±)	64.5	pCi/L				1	D5072-92 11/15/07 18:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-007
 Client Sample ID: DewBurdGW13

Report Date: 12/19/07
 Collection Date: 11/12/07 12:15
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	-3.53	%					1	A1030 E 12/10/07 16:40/eli-c
Anions	14.0	meq/L					1	A1030 E 12/10/07 16:40/eli-c
Cations	13.1	meq/L					1	A1030 E 12/10/07 16:40/eli-c
Solids, Total Dissolved Calculated	898	mg/L					1	A1030 E 12/10/07 16:40/eli-c
TDS Balance (0.80 - 1.20)	0.990	dec. %					1	A1030 E 12/10/07 16:40/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-008
 Client Sample ID: DewBurdGW619

Report Date: 12/19/07
 Collection Date: 11/12/07 14:25
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	98	mg/L		5			1	A2320 B	11/26/07 16:09/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/26/07 16:09/sn
Bicarbonate as HCO3	119	mg/L		5			1	A2320 B	11/26/07 16:09/sn
Calcium	263	mg/L		0.5			1	E200.7	11/27/07 17:13/eli-c
Magnesium	96.4	mg/L		0.5			1	E200.7	11/27/07 17:13/eli-c
Potassium	16.2	mg/L		0.5			1	E200.7	11/27/07 17:13/eli-c
Silica	6.0	mg/L		0.5			1	E200.7	11/27/07 17:13/eli-c
Sodium	86.1	mg/L	D	0.8			1	E200.7	11/27/07 17:13/eli-c
Chloride	10	mg/L		1			1	E300.0	11/15/07 00:47/jmh
Fluoride	0.2	mg/L		0.1			1	E300.0	11/15/07 00:47/jmh
Nitrogen, Ammonia as N	0.3	mg/L		0.1			1	A4500-NH3 G	11/13/07 17:39/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	11/15/07 00:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/15/07 00:47/jmh
Sulfate	1180	mg/L	D	40			50	E300.0	11/15/07 00:31/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1860	umhos/cm		5			1	A2510 B	11/16/07 18:19/jmh
Oxidation-Reduction Potential	25	mV					1	A2580 B	11/13/07 09:00/sn
pH	7.03	s.u.		0.01			1	A4500-H B	11/16/07 14:18/jmh
Sodium Adsorption Ratio (SAR)	1.2			0.10			1	Calculation	12/10/07 16:45/kl
Solids, Total Dissolved TDS @ 180 C	1900	mg/L		5			1	A2540 C	11/15/07 16:08/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	11/15/07 20:08/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	11/15/07 20:08/eli-c
Barium	ND	mg/L		0.1			1	E200.8	11/15/07 20:08/eli-c
Boron	ND	mg/L		0.1			1	E200.7	11/27/07 17:13/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/15/07 20:08/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	11/15/07 20:08/eli-c
Copper	ND	mg/L		0.01			1	E200.8	11/15/07 20:08/eli-c
Iron	4.39	mg/L		0.03			1	E200.7	11/27/07 17:13/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/15/07 20:08/eli-c
Manganese	1.15	mg/L		0.01			1	E200.8	11/15/07 20:08/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	11/15/07 20:08/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	11/15/07 20:08/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	11/15/07 20:08/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	11/28/07 13:43/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/15/07 20:08/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-008
 Client Sample ID: DewBurdGW619

Report Date: 12/19/07
 Collection Date: 11/12/07 14:25
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 11/15/07 20:08/eli-c
Uranium	0.0015	mg/L		0.0003		1	E200.8 11/15/07 20:08/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 11/15/07 20:08/eli-c
Zinc	0.07	mg/L		0.01		1	E200.8 11/15/07 20:08/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 11/21/07 04:02/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.001		1	E200.8 11/19/07 19:21/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium-IV	ND	mg/L		0.0010		1	A3114 B 11/28/07 09:15/eli-c
Selenium-VI	ND	mg/L		0.0010		1	A3114 B 11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	341	pCi/L		1.0		1	E900.0 12/03/07 03:32/eli-c
Gross Alpha precision (±)	4.8	pCi/L				1	E900.0 12/03/07 03:32/eli-c
Gross Beta	170	pCi/L		2.0		1	E900.0 12/03/07 03:32/eli-c
Gross Beta precision (±)	5.7	pCi/L				1	E900.0 12/03/07 03:32/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/19/07 10:35/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/20/07 13:30/eli-c
Radium 226	100	pCi/L		0.2		1	E903.0 11/25/07 21:46/eli-c
Radium 226 precision (±)	3.6	pCi/L				1	E903.0 11/25/07 21:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/21/07 14:10/eli-c
Gross Gamma	4200	pCi/L		20		1	E901.1 11/16/07 10:50/eli-c
Gross Gamma precision (±)	360	pCi/L				1	E901.1 11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/26/07 12:30/eli-c
Radium 226	3.5	pCi/L		0.2		1	E903.0 12/02/07 16:57/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 12/02/07 16:57/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0 11/26/07 14:10/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0 11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	2990	pCi/L		100		1	D5072-92 11/15/07 18:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-008
 Client Sample ID: DewBurdGW619

Report Date: 12/19/07
 Collection Date: 11/12/07 14:25
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Radon 222 precision (±)	91.9	pCi/L				1	D5072-92	11/15/07 18:10/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.56	%				1	A1030 E	12/10/07 16:40/eli-c
Anions	26.8	meq/L				1	A1030 E	12/10/07 16:40/eli-c
Cations	25.5	meq/L				1	A1030 E	12/10/07 16:40/eli-c
Solids, Total Dissolved Calculated	1720	mg/L				1	A1030 E	12/10/07 16:40/eli-c
TDS Balance (0.80 - 1.20)	1.09	dec. %				1	A1030 E	12/10/07 16:40/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110146-009
Client Sample ID: DewBurdGW650

Report Date: 12/19/07
Collection Date: 11/12/07 15:30
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	108	mg/L		5			1	A2320 B	11/26/07 16:12/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/26/07 16:12/sn
Bicarbonate as HCO3	132	mg/L		5			1	A2320 B	11/26/07 16:12/sn
Calcium	221	mg/L		0.5			1	E200.7	11/27/07 17:16/eli-c
Magnesium	100	mg/L		0.5			1	E200.7	11/27/07 17:16/eli-c
Potassium	18.1	mg/L		0.5			1	E200.7	11/27/07 17:16/eli-c
Silica	1.1	mg/L		0.5			1	E200.7	11/27/07 17:16/eli-c
Sodium	139	mg/L	D	0.8			1	E200.7	11/27/07 17:16/eli-c
Chloride	16	mg/L		1			1	E300.0	11/15/07 01:19/jmh
Fluoride	ND	mg/L		0.1			1	E300.0	11/15/07 01:19/jmh
Nitrogen, Ammonia as N	0.6	mg/L		0.1			1	A4500-NH3 G	11/13/07 17:46/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	11/15/07 01:19/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/15/07 01:19/jmh
Sulfate	1000	mg/L	D	40			50	E300.0	11/15/07 01:03/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1770	umhos/cm		5			1	A2510 B	11/16/07 18:20/jmh
Oxidation-Reduction Potential	190	mV					1	A2580 B	11/13/07 09:00/sn
pH	7.22	s.u.		0.01			1	A4500-H B	11/16/07 14:20/jmh
Sodium Adsorption Ratio (SAR)	1.9			0.10			1	Calculation	12/10/07 16:45/kl
Solids, Total Dissolved TDS @ 180 C	1600	mg/L		5			1	A2540 C	11/15/07 16:09/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	11/15/07 20:35/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	11/15/07 20:35/eli-c
Barium	ND	mg/L		0.1			1	E200.8	11/15/07 20:35/eli-c
Boron	ND	mg/L		0.1			1	E200.7	11/27/07 17:16/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/15/07 20:35/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	11/15/07 20:35/eli-c
Copper	ND	mg/L		0.01			1	E200.8	11/15/07 20:35/eli-c
Iron	0.68	mg/L		0.03			1	E200.7	11/27/07 17:16/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/15/07 20:35/eli-c
Manganese	1.39	mg/L		0.01			1	E200.8	11/15/07 20:35/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	11/15/07 20:35/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	11/15/07 20:35/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	11/15/07 20:35/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	11/28/07 13:45/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/15/07 20:35/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-009
 Client Sample ID: DewBurdGW650

Report Date: 12/19/07
 Collection Date: 11/12/07 15:30
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 11/15/07 20:35/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 11/15/07 20:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 11/15/07 20:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 11/15/07 20:35/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 11/21/07 04:08/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.001		1	E200.8 11/19/07 19:28/eli-c
METALS - DISSOLVED - SPECIATED							
Selenium-IV	ND	mg/L		0.0010		1	A3114 B 11/28/07 09:17/eli-c
Selenium-VI	ND	mg/L		0.0010		1	A3114 B 11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	5.6	pCi/L		1.0		1	E900.0 12/04/07 04:32/eli-c
Gross Alpha precision (±)	1.5	pCi/L				1	E900.0 12/04/07 04:32/eli-c
Gross Beta	20.1	pCi/L		2.0		1	E900.0 12/04/07 04:32/eli-c
Gross Beta precision (±)	3.7	pCi/L				1	E900.0 12/04/07 04:32/eli-c
Lead 210	1.4	pCi/L		1.0		1	E909.0M 11/19/07 10:35/eli-c
Lead 210 precision (±)	0.60	pCi/L				1	E909.0M 11/19/07 10:35/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/20/07 13:30/eli-c
Radium 226	2.4	pCi/L		0.2		1	E903.0 11/25/07 22:46/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 11/25/07 22:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/21/07 14:10/eli-c
Gross Gamma	2200	pCi/L		20		1	E901.1 11/16/07 10:50/eli-c
Gross Gamma precision (±)	290	pCi/L				1	E901.1 11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/02/07 17:58/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	134	pCi/L		100		1	D5072-92 11/15/07 18:10/eli-c
Radon 222 precision (±)	60.8	pCi/L				1	D5072-92 11/15/07 18:10/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-009
 Client Sample ID: DewBurdGW650

Report Date: 12/19/07
 Collection Date: 11/12/07 15:30
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	4.96	%					1	A1030 E 12/10/07 16:41/eli-c
Anions	23.5	meq/L					1	A1030 E 12/10/07 16:41/eli-c
Cations	26.0	meq/L					1	A1030 E 12/10/07 16:41/eli-c
Solids, Total Dissolved Calculated	1560	mg/L					1	A1030 E 12/10/07 16:41/eli-c
TDS Balance (0.80 - 1.20)	1.01	dec. %					1	A1030 E 12/10/07 16:41/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-010
 Client Sample ID: DewBurdGW16

Report Date: 12/19/07
 Collection Date: 11/12/07 16:05
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	148	mg/L		5			1	A2320 B	11/26/07 16:15/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/26/07 16:15/sn
Bicarbonate as HCO3	180	mg/L		5			1	A2320 B	11/26/07 16:15/sn
Calcium	103	mg/L		0.5			1	E200.7	11/27/07 17:20/eli-c
Magnesium	39.4	mg/L		0.5			1	E200.7	11/27/07 17:20/eli-c
Potassium	16.0	mg/L		0.5			1	E200.7	11/27/07 17:20/eli-c
Silica	6.5	mg/L		0.5			1	E200.7	11/27/07 17:20/eli-c
Sodium	44.1	mg/L	D	0.8			1	E200.7	11/27/07 17:20/eli-c
Chloride	5	mg/L		1			1	E300.0	11/15/07 01:51/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	11/15/07 01:51/jmh
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	11/13/07 17:47/jmh
Nitrogen, Nitrate as N	0.2	mg/L		0.1			1	E300.0	11/15/07 01:51/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/15/07 01:51/jmh
Sulfate	428	mg/L	D	40			50	E300.0	11/15/07 01:35/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	925	umhos/cm		5			1	A2510 B	11/16/07 18:21/jmh
Oxidation-Reduction Potential	240	mV					1	A2580 B	11/13/07 09:00/sn
pH	7.48	s.u.		0.01			1	A4500-H B	11/16/07 14:22/jmh
Sodium Adsorption Ratio (SAR)	0.94			0.10			1	Calculation	12/10/07 16:45/lkl
Solids, Total Dissolved TDS @ 180 C	760	mg/L		5			1	A2540 C	11/15/07 16:09/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	11/15/07 20:42/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	11/15/07 20:42/eli-c
Barium	ND	mg/L		0.1			1	E200.8	11/15/07 20:42/eli-c
Boron	ND	mg/L		0.1			1	E200.7	11/27/07 17:20/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/15/07 20:42/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	11/15/07 20:42/eli-c
Copper	ND	mg/L		0.01			1	E200.8	11/15/07 20:42/eli-c
Iron	ND	mg/L		0.03			1	E200.7	11/27/07 17:20/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/15/07 20:42/eli-c
Manganese	ND	mg/L		0.01			1	E200.8	11/15/07 20:42/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	11/15/07 20:42/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	11/15/07 20:42/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	11/15/07 20:42/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	11/28/07 13:47/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/15/07 20:42/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-010
 Client Sample ID: DewBurdGW16

Report Date: 12/19/07
 Collection Date: 11/12/07 16:05
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	11/15/07 20:42/eli-c
Uranium	0.0007	mg/L		0.0003			1	E200.8	11/15/07 20:42/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	11/15/07 20:42/eli-c
Zinc	0.06	mg/L		0.01			1	E200.8	11/15/07 20:42/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	11/21/07 04:15/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.001			1	E200.8	11/19/07 19:35/eli-c
METALS - DISSOLVED - SPECIATED									
Selenium-IV	ND	mg/L		0.0010			1	A3114 B	11/28/07 09:19/eli-c
Selenium-VI	ND	mg/L		0.0010			1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	12.2	pCi/L		1.0			1	E900.0	12/04/07 04:32/eli-c
Gross Alpha precision (±)	1.0	pCi/L					1	E900.0	12/04/07 04:32/eli-c
Gross Beta	24.0	pCi/L		2.0			1	E900.0	12/04/07 04:32/eli-c
Gross Beta precision (±)	2.1	pCi/L					1	E900.0	12/04/07 04:32/eli-c
Lead 210	2.2	pCi/L		1.0			1	E909.0M	11/19/07 10:35/eli-c
Lead 210 precision (±)	0.70	pCi/L					1	E909.0M	11/19/07 10:35/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	8.1	pCi/L		0.2			1	E903.0	11/25/07 23:47/eli-c
Radium 226 precision (±)	0.9	pCi/L					1	E903.0	11/25/07 23:47/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/21/07 14:10/eli-c
Gross Gamma	2300	pCi/L		20			1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	260	pCi/L					1	E901.1	11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	1.2	pCi/L		1.0			1	E909.0M	12/03/07 04:30/eli-c
Lead 210 precision (±)	0.22	pCi/L					1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/02/07 18:58/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1090	pCi/L		100			1	D5072-92	11/15/07 18:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110146-010
 Client Sample ID: DewBurdGW16

Report Date: 12/19/07
 Collection Date: 11/12/07 16:05
 Date Received: 11/13/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Radon 222 precision (±)	72.1	pCi/L				1	D5072-92	11/15/07 18:10/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.55	%				1	A1030 E	12/10/07 16:43/eli-c
Anions	11.0	meq/L				1	A1030 E	12/10/07 16:43/eli-c
Cations	10.7	meq/L				1	A1030 E	12/10/07 16:43/eli-c
Solids, Total Dissolved Calculated	686	mg/L				1	A1030 E	12/10/07 16:43/eli-c
TDS Balance (0.80 - 1.20)	1.11	dec. %				1	A1030 E	12/10/07 16:43/eli-c
- Ion balance achieved using Sulfate data from E200.7.								

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 071126A-ALK-SEL-W							
Sample ID: MBLK2_071126A	Method Blank								Run: PH_COND1-R_071126A 11/26/07 15:38
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS2_071126A	Laboratory Control Sample								Run: PH_COND1-R_071126A 11/26/07 15:41
Alkalinity, Total as CaCO3	910	mg/L	5.0	91	90	110			
Sample ID: R07110147-004AMS	Sample Matrix Spike								Run: PH_COND1-R_071126A 11/26/07 16:25
Alkalinity, Total as CaCO3	102	mg/L	5.0	96	80	120			
Sample ID: R07110147-004AMSD	Sample Matrix Spike Duplicate								Run: PH_COND1-R_071126A 11/26/07 16:29
Alkalinity, Total as CaCO3	94.0	mg/L	5.0	89	80	120	8.2	10	
Method: A2510 B		Batch: 071116_1_COND-PROBE-W							
Sample ID: LCS1-1_071116	Laboratory Control Sample								Run: PH_COND2-R_071116A 11/16/07 18:09
Conductivity @ 25 C	151	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_071116	Laboratory Control Sample								Run: PH_COND2-R_071116A 11/16/07 18:10
Conductivity @ 25 C	4890	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071116	Laboratory Control Sample								Run: PH_COND2-R_071116A 11/16/07 18:10
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071116	Method Blank								Run: PH_COND2-R_071116A 11/16/07 18:11
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07110146-001ADUP	Sample Duplicate								Run: PH_COND2-R_071116A 11/16/07 18:13
Conductivity @ 25 C	2220	umhos/cm	5.0				0.5	10	
Method: A2540 C		Batch: 071115A-SLDS-TDS-W							
Sample ID: LCS1_071115A	Laboratory Control Sample								Run: BAL-4-R_071115A 11/15/07 15:53
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: MBLK1_071115A	Method Blank								Run: BAL-4-R_071115A 11/16/07 13:54
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R07110146-003AMS	Sample Matrix Spike								Run: BAL-4-R_071115A 11/15/07 16:04
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	99	80	120			
Sample ID: R07110146-003AMSD	Sample Matrix Spike Duplicate								Run: BAL-4-R_071115A 11/15/07 16:05
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	100	80	120	0.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-071128		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	0.0004						Run: SUB-C93452 11/28/07 13:26
Sample ID: C07110603-001EMS	Sample Matrix Spike								
Selenium	0.050	mg/L	0.0010	100	85	115			Run: SUB-C93452 11/28/07 13:50
Sample ID: C07110603-001EMSD	Sample Matrix Spike Duplicate								
Selenium	0.050	mg/L	0.0010	101	85	115	0.6	10	Run: SUB-C93452 11/28/07 13:52
Sample ID: 301-119-5	Laboratory Control Sample								
Selenium	0.049	mg/L	0.0010	99	90	110			Run: SUB-C93452 11/28/07 13:54
Method: A3114 B							Batch: C_SEIV3114-071128		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	0.0002						Run: SUB-C93423 11/28/07 08:58
Sample ID: C07110603-001EMS	Sample Matrix Spike								
Selenium-IV	0.046	mg/L	0.0010	93	85	115			Run: SUB-C93423 11/28/07 09:21
Sample ID: C07110603-001EMSD	Sample Matrix Spike Duplicate								
Selenium-IV	0.048	mg/L	0.0010	95	85	115	2.7	10	Run: SUB-C93423 11/28/07 09:23
Sample ID: 301-119-5	Laboratory Control Sample								
Selenium-IV	0.048	mg/L	0.0010	96	90	110			Run: SUB-C93423 11/28/07 09:25
Method: A4500-H B							Batch: 071116_1_PH-W		
Sample ID: LCS_pH-1_071116	Laboratory Control Sample								
pH	6.85	s.u.	0.010	100	98.55	101.45			Run: PH_COND2-R_071116B 11/16/07 14:01
Sample ID: R07110146-001ADUP	Sample Duplicate								
pH	7.22	s.u.	0.010				0.0	1.25	Run: PH_COND2-R_071116B 11/16/07 14:07

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2007-11-13_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.02			Run: TECHAA2-R_071113A			11/13/07 16:08
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			11/13/07 16:10
Sample ID: R07110146-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.57	mg/L	0.10	113	80	120			11/13/07 17:29
Sample ID: R07110146-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.57	mg/L	0.10	114	80	120	0.4	10	11/13/07 17:31
Method: D5072-92							Batch: C_R93068		
Sample ID: R07110146-010G Radon 222	Sample Duplicate 1150	pCi/L	100			Run: SUB-C93068	5.6	30	11/15/07 18:10
Sample ID: MB-R93068 Radon 222	Method Blank ND	pCi/L	100			Run: SUB-C93068			11/15/07 18:10
Sample ID: LCS-R93068 Radon 222	Laboratory Control Sample 303	pCi/L	100	100	70	130			11/15/07 18:10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R93405		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C93405			11/27/07 11:57		
Silica	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C93405			11/27/07 12:00		
Calcium	24	mg/L	0.50	97	85	125			
Magnesium	24	mg/L	0.50	94	85	125			
Potassium	26	mg/L	0.50	104	85	125			
Sodium	24	mg/L	0.76	97	85	125			
Sample ID: R07110146-001C	Sample Matrix Spike			Run: SUB-C93405			11/27/07 15:02		
Boron	8.88	mg/L	0.10	89	70	130			
Calcium	619	mg/L	1.0	81	70	130			
Iron	9.14	mg/L	0.046	88	70	130			
Magnesium	482	mg/L	0.50	81	70	130			
Potassium	1100	mg/L	0.50	90	70	130			
Silica	16.2	mg/L	0.20	85	70	130			
Sodium	551	mg/L	7.6	80	70	130			
Sample ID: R07110146-001C	Sample Matrix Spike Duplicate			Run: SUB-C93405			11/27/07 15:05		
Boron	9.32	mg/L	0.10	93	70	130	4.8	20	
Calcium	632	mg/L	1.0	84	70	130	2.1	20	
Iron	9.49	mg/L	0.046	91	70	130	3.8	20	
Magnesium	491	mg/L	0.50	82	70	130	1.7	20	
Potassium	1110	mg/L	0.50	91	70	130	1.6	20	
Silica	16.4	mg/L	0.20	86	70	130	1.0	20	
Sodium	577	mg/L	7.6	85	70	130	4.6	20	
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C93405			11/27/07 21:56		
Silica	1.9	mg/L	0.10	96	85	125			
Boron	1.9	mg/L	0.10	93	85	125			
Iron	1.9	mg/L	0.030	95	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C93405			11/27/07 21:59		
Calcium	23	mg/L	0.50	94	85	125			
Magnesium	23	mg/L	0.50	93	85	125			
Potassium	26	mg/L	0.50	105	85	125			
Sodium	23	mg/L	0.76	94	85	125			
Sample ID: C07110667-001BMS	Sample Matrix Spike			Run: SUB-C93405			11/27/07 17:43		
Boron	0.966	mg/L	0.10	92	70	130			
Calcium	105	mg/L	0.50	80	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R93405		
Sample ID: C07110667-001BMS	Sample Matrix Spike			Run: SUB-C93405			11/27/07 17:43		
Iron	0.934	mg/L	0.030	93	70	130			
Magnesium	56.9	mg/L	0.50	87	70	130			
Potassium	116	mg/L	0.50	93	70	130			
Silica	50.9	mg/L	0.10		0	0			A
Sodium	58.9	mg/L	0.76	89	70	130			
Silicon	23.8	mg/L	0.047	2380	70	130			S
Sample ID: C07110667-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C93405			11/27/07 17:46		
Boron	0.999	mg/L	0.10	95	70	130	3.4	20	
Calcium	108	mg/L	0.50	84	70	130	2.2	20	
Iron	0.952	mg/L	0.030	95	70	130	1.9	20	
Magnesium	57.5	mg/L	0.50	88	70	130	1.0	20	
Potassium	116	mg/L	0.50	93	70	130	0.1	20	
Silica	51.5	mg/L	0.10		0	0			A
Sodium	58.5	mg/L	0.76	89	70	130	0.7	20	
Silicon	24.1	mg/L	0.047	2410	70	130	1.2	20	S
Method: E200.8							Batch: C_16851		
Sample ID: MB-16851	Method Blank			Run: SUB-C93179			11/19/07 17:53		
Mercury	ND	mg/L	6E-06						
Sample ID: C07110611-007C MS4	Post Digestion Spike			Run: SUB-C93179			11/19/07 20:43		
Mercury	0.0062	mg/L	0.0010	88	70	130			
Sample ID: C07110611-007C MSD4	Post Digestion Spike Duplicate			Run: SUB-C93179			11/19/07 20:49		
Mercury	0.0058	mg/L	0.0010	83	70	130	6.5	20	
Method: E200.8							Batch: C_16875		
Sample ID: MB-16875	Method Blank			Run: SUB-C93209			11/21/07 02:47		
Uranium	5E-05	mg/L	2E-05						
Sample ID: LCS1-16875	Laboratory Control Sample			Run: SUB-C93209			11/21/07 02:54		
Uranium	0.0526	mg/L	0.00030	100	80	120			
Sample ID: R07110147-004K	Post Digestion Spike			Run: SUB-C93209			11/21/07 04:48		
Uranium	0.0241	mg/L	0.00030	95	70	130			
Sample ID: R07110147-004K	Post Digestion Spike Duplicate			Run: SUB-C93209			11/21/07 04:55		
Uranium	0.0241	mg/L	0.00030	95	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R92944		
Sample ID: LRB	Method Blank		Run: SUB-C92944			11/15/07 12:39			
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	6E-05	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.001	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C92944			11/15/07 12:46			
Aluminum	0.0479	mg/L	0.0010	96	85	115			
Arsenic	0.0514	mg/L	0.0010	103	85	115			
Barium	0.0531	mg/L	0.0010	106	85	115			
Cadmium	0.0522	mg/L	0.0010	104	85	115			
Chromium	0.0509	mg/L	0.0010	102	85	115			
Copper	0.0516	mg/L	0.0010	103	85	115			
Lead	0.0531	mg/L	0.0010	106	85	115			
Manganese	0.0507	mg/L	0.0010	101	85	115			
Mercury	0.00542	mg/L	0.0010	108	85	115			
Molybdenum	0.0508	mg/L	0.0010	102	85	115			
Nickel	0.0510	mg/L	0.0010	102	85	115			
Silver	0.0209	mg/L	0.0010	98	85	115			
Thorium 232	0.0528	mg/L	0.0010	106	85	115			
Uranium	0.0530	mg/L	0.00030	106	85	115			
Vanadium	0.0511	mg/L	0.0010	102	85	115			
Zinc	0.0536	mg/L	0.0010	105	85	115			
Sample ID: C07110507-001BMS4	Post Digestion Spike		Run: SUB-C92944			11/15/07 14:08			
Aluminum	0.104	mg/L	0.10	107	70	130			
Arsenic	0.0932	mg/L	0.0010	102	70	130			
Barium	0.103	mg/L	0.10	83	70	130			
Cadmium	0.0500	mg/L	0.010	100	70	130			
Chromium	0.0489	mg/L	0.050	97	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R92944		
Sample ID: C07110507-001BMS4	Post Digestion Spike			Run: SUB-C92944			11/15/07 14:08		
Copper	0.0485	mg/L	0.010	96	70	130			
Lead	0.0505	mg/L	0.050	101	70	130			
Manganese	0.130	mg/L	0.010	92	70	130			
Mercury	0.00519	mg/L	0.0010	104	70	130			
Molybdenum	0.0562	mg/L	0.10	101	70	130			
Nickel	0.0479	mg/L	0.050	96	70	130			
Silver	0.0181	mg/L	0.010	91	70	130			
Thorium 232	0.0519	mg/L	0.0010	104	70	130			
Uranium	0.0529	mg/L	0.00030	104	70	130			
Vanadium	0.0476	mg/L	0.10	94	70	130			
Zinc	0.0512	mg/L	0.010	98	70	130			
Sample ID: C07110507-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C92944			11/15/07 14:14		
Aluminum	0.112	mg/L	0.10	125	70	130	8.0	20	
Arsenic	0.0938	mg/L	0.0010	103	70	130	0.6	20	
Barium	0.106	mg/L	0.10	88	70	130	2.2	20	
Cadmium	0.0503	mg/L	0.010	101	70	130	0.6	20	
Chromium	0.0493	mg/L	0.050	98	70	130	0.0	20	
Copper	0.0488	mg/L	0.010	97	70	130	0.7	20	
Lead	0.0511	mg/L	0.050	102	70	130	1.1	20	
Manganese	0.133	mg/L	0.010	99	70	130	2.4	20	
Mercury	0.00526	mg/L	0.0010	105	70	130	1.4	20	
Molybdenum	0.0573	mg/L	0.10	103	70	130	0.0	20	
Nickel	0.0490	mg/L	0.050	98	70	130	0.0	20	
Silver	0.0172	mg/L	0.010	86	70	130	5.2	20	
Thorium 232	0.0524	mg/L	0.0010	105	70	130	1.0	20	
Uranium	0.0538	mg/L	0.00030	106	70	130	1.7	20	
Vanadium	0.0478	mg/L	0.10	94	70	130	0.0	20	
Zinc	0.0518	mg/L	0.010	100	70	130	1.2	20	
Sample ID: C07110518-001AMS	Sample Matrix Spike			Run: SUB-C92944			11/15/07 13:06		
Uranium	0.38	mg/L	0.00030		70	130			A
Sample ID: C07110518-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C92944			11/15/07 13:13		
Uranium	0.38	mg/L	0.00030		70	130	0.3	20	A
Sample ID: R07110146-008C	Post Digestion Spike			Run: SUB-C92944			11/15/07 20:15		
Aluminum	0.0450	mg/L	0.10	90	70	130			
Arsenic	0.0527	mg/L	0.0010	104	70	130			
Barium	0.0623	mg/L	0.10	106	70	130			
Cadmium	0.0491	mg/L	0.010	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 12/19/07

Project: Edgemont

Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R92944		
Sample ID: R07110146-008C	Post Digestion Spike			Run: SUB-C92944			11/15/07 20:15		
Chromium	0.0486	mg/L	0.050	97	70	130			
Copper	0.0563	mg/L	0.010	95	70	130			
Lead	0.0534	mg/L	0.050	105	70	130			
Manganese	1.19	mg/L	0.010		70	130			A
Mercury	0.00487	mg/L	0.0010	97	70	130			
Molybdenum	0.0518	mg/L	0.10	103	70	130			
Nickel	0.0521	mg/L	0.050	96	70	130			
Silver	0.0155	mg/L	0.010	78	70	130			
Thorium 232	0.0563	mg/L	0.0010	112	70	130			
Uranium	0.0570	mg/L	0.00030	111	70	130			
Vanadium	0.0501	mg/L	0.10	100	70	130			
Zinc	0.110	mg/L	0.010	87	70	130			
Sample ID: R07110146-008C	Post Digestion Spike Duplicate			Run: SUB-C92944			11/15/07 20:21		
Aluminum	0.0418	mg/L	0.10	84	70	130	0.0	20	
Arsenic	0.0514	mg/L	0.0010	102	70	130	2.5	20	
Barium	0.0614	mg/L	0.10	104	70	130	0.0	20	
Cadmium	0.0481	mg/L	0.010	96	70	130	1.9	20	
Chromium	0.0464	mg/L	0.050	92	70	130	0.0	20	
Copper	0.0542	mg/L	0.010	90	70	130	3.8	20	
Lead	0.0526	mg/L	0.050	104	70	130	1.6	20	
Manganese	1.16	mg/L	0.010		70	130	2.9	20	A
Mercury	0.00490	mg/L	0.0010	98	70	130	0.6	20	
Molybdenum	0.0497	mg/L	0.10	99	70	130	0.0	20	
Nickel	0.0495	mg/L	0.050	91	70	130	0.0	20	
Silver	0.0164	mg/L	0.010	82	70	130	5.1	20	
Thorium 232	0.0552	mg/L	0.0010	110	70	130	2.0	20	
Uranium	0.0560	mg/L	0.00030	109	70	130	1.9	20	
Vanadium	0.0480	mg/L	0.10	96	70	130	0.0	20	
Zinc	0.109	mg/L	0.010	83	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R32251		
Sample ID: LFB0711142429-3	Laboratory Fortified Blank			Run: DIONEX_071114A			11/14/07 18:41		
Chloride	4.81	mg/L	0.50	96	90	110			
Fluoride	1.96	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.43	mg/L	0.10	97	90	110			
Nitrogen, Nitrite as N	2.39	mg/L	0.10	96	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0711142429-4	Laboratory Fortified Blank			Run: DIONEX_071114A			11/14/07 18:57		
Chloride	4.95	mg/L	0.50	99	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.50	mg/L	0.10	100	90	110			
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R07110146-001AMS	Sample Matrix Spike			Run: DIONEX_071114A			11/14/07 19:29		
Chloride	258	mg/L	2.0	94	80	120			
Fluoride	102	mg/L	3.2	102	80	120			
Nitrogen, Nitrate as N	126	mg/L	0.84	101	80	120			
Nitrogen, Nitrite as N	125	mg/L	1.1	100	80	120			
Sulfate	1670	mg/L	36	85	80	120			
Sample ID: R07110146-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071114A			11/14/07 19:44		
Chloride	251	mg/L	2.0	91	80	120	2.9	10	
Fluoride	98.9	mg/L	3.2	99	80	120	3.1	10	
Nitrogen, Nitrate as N	122	mg/L	0.84	98	80	120	3.3	10	
Nitrogen, Nitrite as N	121	mg/L	1.1	97	80	120	3.1	10	
Sulfate	1650	mg/L	36	81	80	120	1.7	10	
Sample ID: R07110146-006AMS	Sample Matrix Spike			Run: DIONEX_071114A			11/14/07 23:11		
Chloride	261	mg/L	2.0	95	80	120			
Fluoride	102	mg/L	3.2	102	80	120			
Nitrogen, Nitrate as N	127	mg/L	0.84	101	80	120			
Nitrogen, Nitrite as N	125	mg/L	1.1	100	80	120			
Sulfate	1140	mg/L	36	83	80	120			
Sample ID: R07110146-006AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071114A			11/14/07 23:27		
Chloride	257	mg/L	2.0	93	80	120	1.5	10	
Fluoride	101	mg/L	3.2	101	80	120	1.8	10	
Nitrogen, Nitrate as N	124	mg/L	0.84	99	80	120	2.3	10	
Nitrogen, Nitrite as N	122	mg/L	1.1	98	80	120	2.5	10	
Sulfate	1130	mg/L	36	82	80	120	0.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0360		
Sample ID: MB-GrAB-0360	Method Blank								
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0360	Laboratory Control Sample								
Gross Alpha	200	pCi/L	1.0	98	70	130			
Sample ID: Cs137-GrAB-0360	Laboratory Control Sample								
Gross Beta	90	pCi/L	2.0	97	70	130			
Sample ID: C07110713-001EMS	Sample Matrix Spike								
Gross Alpha	400	pCi/L	1.0	82	70	130			
Sample ID: C07110713-001EMSD	Sample Matrix Spike Duplicate								
Gross Alpha	400	pCi/L	1.0	81	70	130	1.2	12.4	
Sample ID: C07110713-001EMS	Sample Matrix Spike								
Gross Beta	200	pCi/L	2.0	93	70	130			
Sample ID: C07110713-001EMSD	Sample Matrix Spike Duplicate								
Gross Beta	200	pCi/L	2.0	87	70	130	6.7	15.6	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R93000		
Sample ID: LCS-R93000	Laboratory Control Sample			Run: SUB-C93000			11/16/07 10:50		
Cesium 137	1100	pCi/L	20	82	70	130			
Potassium 40	7000	pCi/L	20	105	70	130			
Sample ID: MB-R93000							Run: SUB-C93000		
Method Blank							11/16/07 10:50		
Americium 241	ND	pCi/L	20						
Barium 133	ND	pCi/L	20						
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Sample ID: R07110146-010H	Sample Duplicate			Run: SUB-C93000			11/16/07 10:50		
Gross Gamma	2000	pCi/L	20				13	30	
Method: E903.0							Batch: C_16875		
Sample ID: C07110557-001FMS	Sample Matrix Spike			Run: SUB-C93643			12/02/07 05:53		
Radium 226	60	pCi/L	0.20	97	70	130			
Sample ID: C07110557-001FMSD	Sample Matrix Spike Duplicate			Run: SUB-C93643			12/02/07 06:53		
Radium 226	54	pCi/L	0.20	86	70	130	10	30.1	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2443		
Sample ID: R07110146-001H Radium 226	Sample Matrix Spike 28	pCi/L	0.20	95	70	130			11/25/07 14:08
									Run: SUB-C93312
Sample ID: R07110146-001H Radium 226	Sample Matrix Spike Duplicate 26	pCi/L	0.20	83	70	130	9.2	26	11/25/07 15:08
									Run: SUB-C93312
Sample ID: MB-RA226-2443 Radium 226	Method Blank ND	pCi/L	0.2						11/26/07 04:49
									Run: SUB-C93312
Sample ID: LCS-RA226-2443 Radium 226	Laboratory Control Sample 12	pCi/L	0.20	92	70	130			11/26/07 06:50
									Run: SUB-C93312
Method: E907.0							Batch: C_16875		
Sample ID: R07110146-008I Thorium 230	Sample Duplicate 0.233	pCi/L	0.20		70	130	2.6	30	11/26/07 14:10
									Run: SUB-C93872
Sample ID: R07110146-009I Thorium 230	Sample Matrix Spike 3.25	pCi/L	0.20	87	70	130			11/26/07 14:10
									Run: SUB-C93872
Sample ID: LCS-16875 Thorium 230	Laboratory Control Sample 54.8	pCi/L	0.21	94	70	130			11/26/07 14:10
									Run: SUB-C93872
Sample ID: MB-16875 Thorium 230	Method Blank ND	pCi/L	0.2						11/26/07 14:10
									Run: SUB-C93872
Method: E907.0							Batch: C_R93870		
Sample ID: LCS-R93870 Thorium 230	Laboratory Control Sample 6	pCi/L	0.20	98	70	130			11/21/07 14:10
									Run: SUB-C93870
Sample ID: R07110146-009H Thorium 230	Sample Matrix Spike 17	pCi/L	0.20	88	70	130			11/21/07 14:10
									Run: SUB-C93870
Sample ID: R07110146-009H Thorium 230	Sample Matrix Spike Duplicate 20	pCi/L	0.20	104	70	130	16	30	11/21/07 14:10
									Run: SUB-C93870
Sample ID: MB-R93870 Thorium 230	Method Blank ND	pCi/L	0.2						11/21/07 14:10
									Run: SUB-C93870

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/19/07
 Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_16875
Sample ID: R07110146-001I	Sample Matrix Spike								12/03/07 04:30
Lead 210	330	pCi/L	1.0	83	70	130			
Sample ID: R07110146-001I	Sample Matrix Spike Duplicate								12/03/07 04:30
Lead 210	360	pCi/L	1.0	89	70	130	6.7	30	
Sample ID: MB-R93672	Method Blank								12/03/07 04:30
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R93672	Laboratory Control Sample								12/03/07 04:30
Lead 210	85	pCi/L	1.0	106	70	130			
Method: E909.0M									Batch: C_R93315
Sample ID: R07110146-001H	Sample Matrix Spike								11/19/07 10:35
Lead 210	430	pCi/L	1.0	106	70	130			
Sample ID: R07110146-001H	Sample Matrix Spike Duplicate								11/19/07 10:35
Lead 210	440	pCi/L	1.0	110	70	130	3.9	30	
Sample ID: MB-R93315	Method Blank								11/19/07 10:35
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R93315	Laboratory Control Sample								11/19/07 10:35
Lead 210	87	pCi/L	1.0	108	70	130			
Method: RMO-3008									Batch: C_16875
Sample ID: R07110146-006I	Sample Matrix Spike								11/26/07 12:30
Polonium 210	24	pCi/L	1.0	85	70	130			
Sample ID: R07110146-006I	Sample Matrix Spike Duplicate								11/26/07 12:30
Polonium 210	21	pCi/L	1.0	73	70	130	15	30	
Sample ID: LCS-R93514	Laboratory Control Sample								11/26/07 12:30
Polonium 210	19	pCi/L	1.0	86	70	130			
Sample ID: MB-R93514	Method Blank								11/26/07 12:30
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07110146

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_R93495
Sample ID: LCS-R93495	Laboratory Control Sample								11/20/07 13:30
Polonium 210	22	pCi/L	1.0	96	70	130			
Sample ID: MB-R93495	Method Blank								11/20/07 13:30
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

Company Name:	RESPEC		Project Name, PWS, Permit, Etc.:	POWER TAIL DEWEY BURDOK		Sample Origin:	EPA/State Compliance:		Yes <input type="checkbox"/> No <input type="checkbox"/>																																																				
Report Mail Address:	3824 Jet Dr. Rapid City, SD 57703		Contact Name:	Gry Foreman @ respec.com 605.342.4406		State:	Sampler: (Please Print)		Eric Krantz																																																				
Invoice Address:			Phone/Fax:			Purchase Order:	Invoice Contact & Phone:		Quoter/Bottle Order:																																																				
Special Report/Formats - EII must be notified prior to sample submittal for the following:			ANALYSIS REQUESTED		Normal Turnaround (TAT)	RUSH		Contact EII prior to RUSH sample submittal for charges and scheduling - See Instruction Page																																																					
<input type="checkbox"/> DW	<input type="checkbox"/> A2LA	<input type="checkbox"/> EDD/EDT (Electronic Data)	Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other			SEE ATTACHED Normal Turnaround (TAT)		Comments: GW		Receipt Temp 4.6 °C On Ice: Yes No																																																			
<input type="checkbox"/> GSA	<input type="checkbox"/> POTW/WWTP	<input type="checkbox"/> Format: _____										<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)</th> <th style="width: 15%;">Collection Date</th> <th style="width: 15%;">Collection Time</th> <th style="width: 10%;">MATRIX</th> <th style="width: 10%;">SIGNED</th> <th style="width: 15%;">LABORATORY USE ONLY</th> </tr> </thead> <tbody> <tr><td>1 Dew Burd GW 2</td><td>11/2/07</td><td>0810</td><td>W</td><td rowspan="10" style="text-align: center; vertical-align: middle;"> Ar per Date </td><td>807110146-201</td></tr> <tr><td>2 Dew Burd GW 7</td><td>11/2/07</td><td>0820</td><td>W</td></tr> <tr><td>3 Dew Burd GW 2</td><td>11/2/07</td><td>0925</td><td>W</td></tr> <tr><td>4 Dew Burd GW 18</td><td>11/2/07</td><td>1015</td><td>W</td></tr> <tr><td>5 Dew Burd GW 18</td><td>11/2/07</td><td>1020</td><td>W</td></tr> <tr><td>6 Dew Burd GW 42</td><td>11/2/07</td><td>1120</td><td>W</td></tr> <tr><td>7 Dew Burd GW 13</td><td>11/2/07</td><td>1215</td><td>W</td></tr> <tr><td>8 Dew Burd GW 619</td><td>11/2/07</td><td>1425</td><td>W</td></tr> <tr><td>9 Dew Burd GW 650</td><td>11/2/07</td><td>1530</td><td>W</td></tr> <tr><td>10 Dew Burd GW 16</td><td>11/2/07</td><td>1605</td><td>W</td></tr> </tbody> </table>		SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	SIGNED	LABORATORY USE ONLY	1 Dew Burd GW 2	11/2/07	0810	W	Ar per Date	807110146-201	2 Dew Burd GW 7	11/2/07	0820	W	3 Dew Burd GW 2	11/2/07	0925	W	4 Dew Burd GW 18	11/2/07	1015	W	5 Dew Burd GW 18	11/2/07	1020	W	6 Dew Burd GW 42	11/2/07	1120	W	7 Dew Burd GW 13	11/2/07	1215	W	8 Dew Burd GW 619	11/2/07	1425	W	9 Dew Burd GW 650	11/2/07	1530	W	10 Dew Burd GW 16	11/2/07	1605	W
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time												MATRIX	SIGNED	LABORATORY USE ONLY																																													
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4 Dew Burd GW 18	11/2/07	1015	W																																																										
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6 Dew Burd GW 42	11/2/07	1120	W																																																										
7 Dew Burd GW 13	11/2/07	1215	W																																																										
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9 Dew Burd GW 650	11/2/07	1530	W																																																										
10 Dew Burd GW 16	11/2/07	1605	W																																																										
<input type="checkbox"/> State: _____	<input type="checkbox"/> LEVEL IV	<input type="checkbox"/> NELAC	Shipped by: Cooler (D): Receipt Temp: 4.6 °C On Ice: Yes No																																																										
<input type="checkbox"/> Other: _____																																																													
Custody Record MUST be Signed					Requested by Laboratory: <u>Linda Larson</u> Date/Time: <u>11/3/07 8:07 AM</u>																																																								
Requisitioned by (print): _____ Date/Time: _____					Received by (print): _____ Date/Time: _____																																																								
Relinquished by (print): _____ Date/Time: _____					Signature: _____																																																								
Sample Disposal: _____ Return to Client: _____					Signature: _____																																																								

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

January 28, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07110184 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 11/15/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07110184-001	DewBurdGW628	11/14/07 10:59	11/15/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R07110184-002	DewBurdGW4002	11/14/07 11:45	11/15/07	Aqueous	Same As Above
R07110184-003	DewBurdGW679	11/14/07 13:45	11/15/07	Aqueous	Same As Above
R07110184-004	DewBurdGW631	11/14/07 15:20	11/15/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Anda Luorn
Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-001
 Client Sample ID: DewBurdGW628

Report Date: 01/28/08
 Collection Date: 11/14/07 10:59
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	160	mg/L		5		1	A2320 B 11/27/07 17:28/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B 11/27/07 17:28/sn
Bicarbonate as HCO3	195	mg/L		5		1	A2320 B 11/27/07 17:28/sn
Calcium	43.2	mg/L		0.5		1	E200.7 11/29/07 20:56/eli-c
Chloride	35	mg/L		1		5	E300.0 11/21/07 02:32/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 11/16/07 21:03/jmh
Magnesium	16.9	mg/L		0.5		1	E200.7 11/29/07 20:56/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 11/29/07 16:02/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 11/16/07 21:03/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 11/16/07 21:03/jmh
Potassium	8.5	mg/L		0.5		1	E200.7 11/29/07 20:56/eli-c
Silica	7.2	mg/L		0.5		1	E200.7 11/29/07 20:56/eli-c
Sodium	233	mg/L	D	0.8		1	E200.7 11/30/07 17:10/eli-c
Sulfate	635	mg/L	D	40		50	E300.0 11/16/07 20:15/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1800	umhos/cm		5.0		1	A2510 B 11/16/07 18:38/jmh
Oxidation-Reduction Potential	96	mV				1	A2580 B 11/15/07 00:00/jmh
pH	7.77	s.u.		0.01		1	A4500-H B 11/16/07 14:33/jmh
Sodium Adsorption Ratio (SAR)	7.6	meq/L		0.10		1	Calculation 12/20/07 17:41/sec
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C 12/24/07 08:25/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 11/22/07 07:21/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 11/22/07 07:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8 11/22/07 07:21/eli-c
Boron	ND	mg/L		0.1		1	E200.7 11/29/07 20:56/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 11/22/07 07:21/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 11/22/07 07:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8 11/22/07 07:21/eli-c
Iron	ND	mg/L		0.03		1	E200.7 11/29/07 20:56/eli-c
Lead	ND	mg/L		0.001		1	E200.8 11/22/07 07:21/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8 11/22/07 07:21/eli-c
Mercury	ND	mg/L		0.001		10	E200.8 11/26/07 18:41/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 11/22/07 07:21/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 11/22/07 07:21/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 12/03/07 14:51/eli-c
Silver	ND	mg/L		0.005		10	E200.8 11/26/07 18:41/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Page 1 of 12



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-001
 Client Sample ID: DewBurdGW628

Report Date: 01/28/08
 Collection Date: 11/14/07 10:59
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 11/22/07 07:21/eli-c
Uranium	0.0034	mg/L		0.0003		1	E200.8 11/22/07 07:21/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 11/22/07 07:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 11/22/07 07:21/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 11/29/07 00:48/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.001		1	E200.8 11/20/07 23:23/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/03/07 09:32/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	83.9	pCi/L		1.0		1	E900.0 12/06/07 03:35/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0 12/06/07 03:35/eli-c
Gross Beta	47.1	pCi/L		2.0		1	E900.0 12/06/07 03:35/eli-c
Gross Beta precision (±)	4.1	pCi/L				1	E900.0 12/06/07 03:35/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/21/07 07:30/eli-c
Polonium 210	2.7	pCi/L		1.0		1	RMO-3008 11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.7	pCi/L				1	RMO-3008 11/20/07 13:30/eli-c
Radium 226	20.7	pCi/L		0.2		1	E903.0 11/27/07 13:15/eli-c
Radium 226 precision (±)	1.4	pCi/L				1	E903.0 11/27/07 13:15/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/29/07 14:30/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1 11/16/07 10:50/eli-c
Gross Gamma precision (±)	82	pCi/L				1	E901.1 11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/29/07 08:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/29/07 12:20/eli-c
Radium 226	0.3	pCi/L		0.2		1	E903.0 12/04/07 11:30/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0 12/04/07 11:30/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0 11/28/07 14:15/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 11/28/07 14:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-001
 Client Sample ID: DewBurdGW628

Report Date: 01/28/08
 Collection Date: 11/14/07 10:59
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Radon 222	2740	pCi/L		100			1	D5072-92	11/15/07 18:10/eli-c
Radon 222 precision (±)	70.4	pCi/L					1	D5072-92	11/15/07 18:10/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.74	%					1	A1030 E	12/26/07 13:54/sec
Anions	14.4	meq/L					1	A1030 E	12/26/07 13:54/sec
Cations	13.9	meq/L					1	A1030 E	12/26/07 13:54/sec
Solids, Total Dissolved Calculated	923	mg/L					1	A1030 E	12/26/07 13:54/sec
TDS Balance (0.80 - 1.20)	1.44	dec. %					1	A1030 E	12/26/07 13:54/sec

- Ion Balance achieved using Sulfate from E200.7.
 - TDS rechecked, TDS balance may be affected by analytes not requested or by active, clay size particulates.

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-002
 Client Sample ID: DewBurdGW4002

Report Date: 01/28/08
 Collection Date: 11/14/07 11:45
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	140	mg/L		5			1	A2320 B	11/27/07 17:31/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/27/07 17:31/sn
Bicarbonate as HCO3	171	mg/L		5			1	A2320 B	11/27/07 17:31/sn
Calcium	41.4	mg/L		0.5			1	E200.7	11/29/07 21:00/eli-c
Chloride	7	mg/L		1			1	E300.0	11/16/07 21:34/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	11/16/07 21:34/jmh
Magnesium	13.9	mg/L		0.5			1	E200.7	11/29/07 21:00/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	11/29/07 16:04/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	11/16/07 21:34/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/16/07 21:34/jmh
Potassium	7.3	mg/L		0.5			1	E200.7	11/29/07 21:00/eli-c
Silica	7.6	mg/L		0.5			1	E200.7	11/29/07 21:00/eli-c
Sodium	197	mg/L	D	0.8			1	E200.7	11/30/07 17:13/eli-c
Sulfate	448	mg/L	D	40			50	E300.0	11/16/07 21:18/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1130	umhos/cm		5.0			1	A2510 B	11/16/07 18:40/jmh
Oxidation-Reduction Potential	140	mV					1	A2580 B	11/15/07 00:00/jmh
pH	7.65	s.u.		0.01			1	A4500-H B	11/16/07 14:35/jmh
Sodium Adsorption Ratio (SAR)	6.7	meq/L		0.10			1	Calculation	12/20/07 17:41/sec
Solids, Total Dissolved TDS @ 180 C	850	mg/L		5			1	A2540 C	11/16/07 11:50/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	11/22/07 07:27/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	11/22/07 07:27/eli-c
Barium	ND	mg/L		0.1			1	E200.8	11/22/07 07:27/eli-c
Boron	ND	mg/L		0.1			1	E200.7	11/29/07 21:00/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/22/07 07:27/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	11/22/07 07:27/eli-c
Copper	ND	mg/L		0.01			1	E200.8	11/22/07 07:27/eli-c
Iron	ND	mg/L		0.03			1	E200.7	11/29/07 21:00/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/22/07 07:27/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	11/22/07 07:27/eli-c
Mercury	ND	mg/L		0.001			10	E200.8	11/26/07 18:48/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	11/22/07 07:27/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	11/22/07 07:27/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	12/03/07 14:53/eli-c
Silver	ND	mg/L		0.005			10	E200.8	11/26/07 18:48/eli-c

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 4 of 12
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-002
 Client Sample ID: DewBurdGW4002

Report Date: 01/28/08
 Collection Date: 11/14/07 11:45
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	11/22/07 07:27/eli-c
Uranium	0.0026	mg/L		0.0003			1	E200.8	11/22/07 07:27/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	11/22/07 07:27/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	11/22/07 07:27/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	11/29/07 00:55/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.001			1	E200.8	11/20/07 23:30/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	12/03/07 09:34/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	227	pCi/L		1.0			1	E900.0	12/06/07 03:35/eli-c
Gross Alpha precision (±)	3.8	pCi/L					1	E900.0	12/06/07 03:35/eli-c
Gross Beta	87.9	pCi/L		2.0			1	E900.0	12/06/07 03:35/eli-c
Gross Beta precision (±)	3.1	pCi/L					1	E900.0	12/06/07 03:35/eli-c
Lead 210	6.2	pCi/L		1.0			1	E909.0M	11/21/07 07:30/eli-c
Lead 210 precision (±)	1.4	pCi/L					1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	54.2	pCi/L		0.2			1	E903.0	11/27/07 13:15/eli-c
Radium 226 precision (±)	2.2	pCi/L					1	E903.0	11/27/07 13:15/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/29/07 14:30/eli-c
Gross Gamma	2200	pCi/L		20			1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	110	pCi/L					1	E901.1	11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	11/29/07 08:25/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	11/29/07 12:20/eli-c
Radium 226	2.4	pCi/L		0.2			1	E903.0	12/04/07 11:30/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	12/04/07 11:30/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	11/28/07 14:15/eli-c
RADIONUCLIDES - TOTAL									

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-002
 Client Sample ID: DewBurdGW4002

Report Date: 01/28/08
 Collection Date: 11/14/07 11:45
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Radon 222	8010	pCi/L		100			1	D5072-92	11/15/07 18:10/eli-c
Radon 222 precision (±)	105	pCi/L					1	D5072-92	11/15/07 18:10/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.56	%					1	A1030 E	12/20/07 17:54/sec
Anions	12.3	meq/L					1	A1030 E	12/20/07 17:54/sec
Cations	12.0	meq/L					1	A1030 E	12/20/07 17:54/sec
Solids, Total Dissolved Calculated	799	mg/L					1	A1030 E	12/20/07 17:54/sec
TDS Balance (0.80 - 1.20)	1.06	dec. %					1	A1030 E	12/20/07 17:54/sec

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-003
 Client Sample ID: DewBurdGW679

Report Date: 01/28/08
 Collection Date: 11/14/07 13:45
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	136	mg/L		5		1	A2320 B	11/27/07 17:33/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/27/07 17:33/sn
Bicarbonate as HCO3	166	mg/L		5		1	A2320 B	11/27/07 17:33/sn
Calcium	447	mg/L	D	1		10	E200.7	11/29/07 20:50/eli-c
Chloride	12	mg/L		1		1	E300.0	11/16/07 22:06/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/16/07 22:06/jmh
Magnesium	92.5	mg/L		0.5		1	E200.7	11/29/07 21:19/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/29/07 16:07/sn
Nitrogen, Nitrate as N	1.3	mg/L		0.1		1	E300.0	11/16/07 22:06/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/16/07 22:06/jmh
Potassium	11.4	mg/L		0.5		1	E200.7	11/29/07 21:19/eli-c
Silica	12.6	mg/L		0.5		1	E200.7	11/29/07 21:19/eli-c
Sodium	74.9	mg/L	D	0.8		1	E200.7	11/30/07 17:32/eli-c
Sulfate	1500	mg/L	D	40		50	E300.0	11/16/07 21:50/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2470	umhos/cm		5.0		1	A2510 B	11/16/07 18:41/jmh
Oxidation-Reduction Potential	230	mV				1	A2580 B	11/15/07 00:00/jmh
pH	7.34	s.u.		0.01		1	A4500-H B	11/16/07 14:36/jmh
Sodium Adsorption Ratio (SAR)	0.84	meq/L		0.10		1	Calculation	12/20/07 17:41/sec
Solids, Total Dissolved TDS @ 180 C	2600	mg/L		5		1	A2540 C	11/16/07 11:51/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/22/07 07:34/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/22/07 07:34/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/22/07 07:34/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	11/29/07 21:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/22/07 07:34/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/22/07 07:34/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/22/07 07:34/eli-c
Iron	ND	mg/L		0.03		1	E200.7	11/29/07 21:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/22/07 07:34/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	11/22/07 07:34/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/26/07 18:55/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/22/07 07:34/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/22/07 07:34/eli-c
Selenium	0.012	mg/L		0.001		1	A3114 B	12/03/07 14:55/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/26/07 18:55/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-003
 Client Sample ID: DewBurdGW679

Report Date: 01/28/08
 Collection Date: 11/14/07 13:45
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 11/22/07 07:34/eli-c
Uranium	0.0144	mg/L		0.0003		1	E200.8 11/22/07 07:34/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 11/22/07 07:34/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 11/22/07 07:34/eli-c
METALS - SUSPENDED							
Uranium	0.0008	mg/L		0.0003		1	E200.8 11/29/07 01:03/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.001		10	E200.8 11/20/07 23:37/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/03/07 09:36/eli-c
Selenium-VI	0.012	mg/L		0.001		1	A3114 B 12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	13.3	pCi/L		1.0		1	E900.0 12/06/07 03:35/eli-c
Gross Alpha precision (±)	1.9	pCi/L				1	E900.0 12/06/07 03:35/eli-c
Gross Beta	16.3	pCi/L		2.0		1	E900.0 12/06/07 03:35/eli-c
Gross Beta precision (±)	4.7	pCi/L				1	E900.0 12/06/07 03:35/eli-c
Lead 210	9.1	pCi/L		1.0		1	E909.0M 11/21/07 07:30/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M 11/21/07 07:30/eli-c
Polonium 210	2.3	pCi/L		1.0		1	RMO-3008 11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008 11/20/07 13:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 11/27/07 13:15/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 11/29/07 14:30/eli-c
Gross Gamma	1500	pCi/L		20		1	E901.1 11/16/07 10:50/eli-c
Gross Gamma precision (±)	240	pCi/L				1	E901.1 11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 11/29/07 08:25/eli-c
Lead 210 precision (±)	0.11	pCi/L				1	E909.0M 11/29/07 08:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 11/29/07 12:20/eli-c
Radium 226	0.5	pCi/L		0.2		1	E903.0 12/04/07 11:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 12/04/07 11:30/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0 11/28/07 14:15/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 11/28/07 14:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-003
 Client Sample ID: DewBurdGW679

Report Date: 01/28/08
 Collection Date: 11/14/07 13:45
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - TOTAL								
Radon 222	819	pCi/L		100			1	D5072-92 11/15/07 18:10/eli-c
Radon 222 precision (±)	51.2	pCi/L					1	D5072-92 11/15/07 18:10/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.35	%					1	A1030 E 12/20/07 17:55/sec
Anions	34.4	meq/L					1	A1030 E 12/20/07 17:55/sec
Cations	33.5	meq/L					1	A1030 E 12/20/07 17:55/sec
Solids, Total Dissolved Calculated	2230	mg/L					1	A1030 E 12/20/07 17:55/sec
TDS Balance (0.80 - 1.20)	1.15	dec. %					1	A1030 E 12/20/07 17:55/sec

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-004
 Client Sample ID: DewBurdGW631

Report Date: 01/28/08
 Collection Date: 11/14/07 15:20
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	160	mg/L		5		1	A2320 B 11/27/07 17:35/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B 11/27/07 17:35/sn
Bicarbonate as HCO3	195	mg/L		5		1	A2320 B 11/27/07 17:35/sn
Calcium	307	mg/L	D	1		10	E200.7 11/29/07 20:53/eli-c
Chloride	10	mg/L		1		1	E300.0 11/16/07 22:38/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 11/16/07 22:38/jmh
Magnesium	89.3	mg/L		0.5		1	E200.7 11/29/07 21:22/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 11/29/07 16:08/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 11/16/07 22:38/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 11/16/07 22:38/jmh
Potassium	15.7	mg/L		0.5		1	E200.7 11/29/07 21:22/eli-c
Silica	7.8	mg/L		0.5		1	E200.7 11/29/07 21:22/eli-c
Sodium	92.9	mg/L	D	0.8		1	E200.7 11/30/07 17:36/eli-c
Sulfate	1220	mg/L	D	40		50	E300.0 11/16/07 22:22/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2170	umhos/cm		5.0		1	A2510 B 11/16/07 18:42/jmh
Oxidation-Reduction Potential	ND	mV				1	A2580 B 11/15/07 00:00/jmh
pH	7.23	s.u.		0.01		1	A4500-H B 11/16/07 14:38/jmh
Sodium Adsorption Ratio (SAR)	1.2	meq/L		0.10		1	Calculation 12/20/07 17:41/sec
Solids, Total Dissolved TDS @ 180 C	2000	mg/L		5		1	A2540 C 11/16/07 11:52/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 11/22/07 08:01/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 11/22/07 08:01/eli-c
Barium	ND	mg/L		0.1		1	E200.8 11/22/07 08:01/eli-c
Boron	ND	mg/L		0.1		1	E200.7 11/29/07 21:22/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 11/22/07 08:01/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 11/22/07 08:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8 11/22/07 08:01/eli-c
Iron	0.84	mg/L		0.03		1	E200.7 11/29/07 21:22/eli-c
Lead	ND	mg/L		0.001		1	E200.8 11/22/07 08:01/eli-c
Manganese	0.29	mg/L		0.01		1	E200.8 11/22/07 08:01/eli-c
Mercury	ND	mg/L		0.001		10	E200.8 11/26/07 19:02/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 11/22/07 08:01/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 11/22/07 08:01/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 12/03/07 14:57/eli-c
Silver	ND	mg/L		0.005		10	E200.8 11/26/07 19:02/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-004
 Client Sample ID: DewBurdGW631

Report Date: 01/28/08
 Collection Date: 11/14/07 15:20
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	11/22/07 08:01/eli-c
Uranium	0.0029	mg/L		0.0003		1	E200.8	11/22/07 08:01/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/22/07 08:01/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/22/07 08:01/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/29/07 01:10/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 23:44/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/03/07 09:38/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	46.5	pCi/L		1.0		1	E900.0	12/06/07 03:35/eli-c
Gross Alpha precision (±)	2.4	pCi/L				1	E900.0	12/06/07 03:35/eli-c
Gross Beta	29.4	pCi/L		2.0		1	E900.0	12/06/07 03:35/eli-c
Gross Beta precision (±)	3.8	pCi/L				1	E900.0	12/06/07 03:35/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	3.5	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	2.0	pCi/L				1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	9.5	pCi/L		0.2		1	E903.0	11/27/07 13:15/eli-c
Radium 226 precision (±)	0.9	pCi/L				1	E903.0	11/27/07 13:15/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/29/07 14:30/eli-c
Gross Gamma	1900	pCi/L		20		1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	280	pCi/L				1	E901.1	11/16/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/29/07 08:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/29/07 12:20/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/04/07 11:30/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/28/07 14:15/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	4220	pCi/L		100		1	D5072-92	11/15/07 18:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110184-004
 Client Sample ID: DewBurdGW631

Report Date: 01/28/08
 Collection Date: 11/14/07 15:20
 Date Received: 11/15/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Radon 222 precision (±)	80.0	pCi/L					1	D5072-92	11/15/07 18:10/eli-c
DATA QUALITY									
A/C Balance (± 5)	-3.03	%					1	A1030 E	12/20/07 17:55/sec
Anions	28.9	meq/L					1	A1030 E	12/20/07 17:55/sec
Cations	27.2	meq/L					1	A1030 E	12/20/07 17:55/sec
Solids, Total Dissolved Calculated	1830	mg/L					1	A1030 E	12/20/07 17:55/sec
TDS Balance (0.80 - 1.20)	1.09	dec. %					1	A1030 E	12/20/07 17:55/sec

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/08
Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A2320 B							Batch: 071127A-ALK-SEL-W			
Sample ID: MBLK1_071127A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3				Run: PH_COND1-R_071127A		11/27/07 15:43	
Sample ID: LCS1_071127A Alkalinity, Total as CaCO3	Laboratory Control Sample 984	mg/L	5.0	98	90	110	Run: PH_COND1-R_071127A		11/27/07 15:45	
Sample ID: R07110184-004AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 268	mg/L	5.0	102	80	120	Run: PH_COND1-R_071127A		11/27/07 17:38	
Sample ID: R07110184-004AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 256	mg/L	5.0	91	80	120	Run: PH_COND1-R_071127A	4.6	10 11/27/07 17:40	
Method: A2510 B							Batch: 071116_1_COND-PROBE-W			
Sample ID: LCS1-1_071116 Conductivity @ 25 C	Laboratory Control Sample 151	umhos/cm	5.0	101	90	110	Run: PH_COND2-R_071116A		11/16/07 18:09	
Sample ID: LCS2-1_071116 Conductivity @ 25 C	Laboratory Control Sample 4890	umhos/cm	5.0	98	90	110	Run: PH_COND2-R_071116A		11/16/07 18:10	
Sample ID: LCS_COND-1_071116 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110	Run: PH_COND2-R_071116A		11/16/07 18:10	
Sample ID: MBLK-1_071116 Conductivity @ 25 C	Method Blank ND	umhos/cm	5				Run: PH_COND2-R_071116A		11/16/07 18:11	
Method: A2540 C							Batch: 071116A-SLDS-TDS-W			
Sample ID: LCS1_071116A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	110	90	110	Run: BAL-4-R_071116A		11/16/07 11:13	
Sample ID: MBLK1_071116A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3				Run: BAL-4-R_071116A		11/16/07 11:15	
Sample ID: R07110184-004AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 2200	mg/L	5.0	106	80	120	Run: BAL-4-R_071116A		11/16/07 11:53	
Sample ID: R07110184-004AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 2200	mg/L	5.0	102	80	120	Run: BAL-4-R_071116A	0.4	10 11/16/07 11:54	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/08
 Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-071203		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		0.0002						Run: SUB-C93637 12/03/07 09:29
Sample ID: R07110184-001E Selenium-IV	Sample Matrix Spike 0.050 mg/L		0.0010	99	85	115			Run: SUB-C93637 12/03/07 09:53
Sample ID: R07110184-001E Selenium-IV	Sample Matrix Spike Duplicate 0.050 mg/L		0.0010	99	85	115	0.0	10	Run: SUB-C93637 12/03/07 09:55
Sample ID: 301-119-5 Selenium-IV	Laboratory Control Sample 0.050 mg/L		0.0010	100	90	110			Run: SUB-C93637 12/03/07 09:57
Method: A3114 B							Batch: C_SE3114-071203B		
Sample ID: MBLK Selenium	Method Blank ND mg/L		0.0004						Run: SUB-C93669 12/03/07 14:47
Sample ID: C07110759-001EMS Selenium	Sample Matrix Spike 0.049 mg/L		0.0010	97	85	115			Run: SUB-C93669 12/03/07 15:12
Sample ID: C07110759-001EMSD Selenium	Sample Matrix Spike Duplicate 0.050 mg/L		0.0010	101	85	115	3.6	10	Run: SUB-C93669 12/03/07 15:14
Sample ID: 301-119-4 Selenium	Laboratory Control Sample 0.050 mg/L		0.0010	100	90	110			Run: SUB-C93669 12/03/07 15:16
Method: A4500-H B							Batch: 071116_1_PH-W		
Sample ID: LCS_pH-1_071116 pH	Laboratory Control Sample 6.85 s.u.		0.010	100	98.55	101.45			Run: PH_COND2-R_071116B 11/16/07 14:01

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/08
Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2007-11-29_2_NH3_01		
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	90	90	110			Run: TECHAA2-R_071129A 11/29/07 14:58
Sample ID: LFB-5 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	95	90	110			Run: TECHAA2-R_071129A 11/29/07 14:59
Sample ID: MBLK-6 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.02						Run: TECHAA2-R_071129A 11/29/07 15:00
Sample ID: R07110184-001BDUP Nitrogen, Ammonia as N	Sample Duplicate 0.20	mg/L	0.10				0.5	10	Run: TECHAA2-R_071129A 11/29/07 16:03
Sample ID: R07110184-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.32	mg/L	0.10	126	80	120			Run: TECHAA2-R_071129A 11/29/07 16:05 S
Method: D5072-92							Batch: C_R93068		
Sample ID: C07110603-010GDUP Radon 222	Sample Duplicate 1150	pCi/L	100				5.6	30	Run: SUB-C93068 11/15/07 18:10
Sample ID: MB-R93068 Radon 222	Method Blank ND	pCi/L	100						Run: SUB-C93068 11/15/07 18:10
Sample ID: LCS-R93068 Radon 222	Laboratory Control Sample 303	pCi/L	100	100	70	130			Run: SUB-C93068 11/15/07 18:10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/08
Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R93581		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C93581			11/29/07 15:05		
Silica	2.1	mg/L	0.10	107	85	125			
Boron	2.0	mg/L	0.10	101	85	125			
Iron	2.1	mg/L	0.030	105	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C93581			11/29/07 15:08		
Calcium	25	mg/L	0.50	99	85	125			
Magnesium	25	mg/L	0.50	98	85	125			
Potassium	28	mg/L	0.50	111	85	125			
Sample ID: C07110854-001CMS	Sample Matrix Spike			Run: SUB-C93581			11/29/07 19:50		
Boron	0.974	mg/L	0.10	94	70	130			
Iron	0.930	mg/L	0.030	92	70	130			
Calcium	77.7	mg/L	0.50	77	70	130			
Magnesium	57.1	mg/L	0.50	82	70	130			
Potassium	113	mg/L	0.50	93	70	130			
Silica	17.5	mg/L	0.10		0	0			A
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07110854-001CMSD	Sample Matrix Spike Duplicate			Run: SUB-C93581			11/29/07 19:54		
Boron	1.02	mg/L	0.10	99	70	130	4.5	20	
Iron	0.972	mg/L	0.030	97	70	130	4.4	20	
Calcium	80.1	mg/L	0.50	81	70	130	3.0	20	
Magnesium	58.3	mg/L	0.50	84	70	130	2.1	20	
Potassium	117	mg/L	0.50	96	70	130	3.1	20	
Silica	18.0	mg/L	0.10		0	0			A
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Method: E200.7							Batch: C_R93622		
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C93622			11/30/07 14:32		
Sodium	24	mg/L	0.76	95	85	125			
Sample ID: C07110945-001CMS	Sample Matrix Spike			Run: SUB-C93622			11/30/07 16:27		
Sodium	600	mg/L	5.3	83	70	130			
Sample ID: C07110945-001CMSD	Sample Matrix Spike Duplicate			Run: SUB-C93622			11/30/07 16:30		
Sodium	600	mg/L	5.3	83	70	130	0.2	20	
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C93622			11/30/07 18:28		
Sodium	23	mg/L	0.76	93	85	125			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/08
Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_16890		
Sample ID: MB-16890	Method Blank						Run: SUB-C93209		11/20/07 21:28
Mercury	ND	mg/L	6E-06						
Sample ID: C07110739-001B MS4	Post Digestion Spike						Run: SUB-C93209		11/20/07 22:56
Mercury	0.0061	mg/L	0.0010	87	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07110739-001B MSD4	Post Digestion Spike Duplicate						Run: SUB-C93209		11/20/07 23:03
Mercury	0.0060	mg/L	0.0010	86	70	130	1.6	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Method: E200.8							Batch: C_16960		
Sample ID: MB-16960	Method Blank						Run: SUB-C93496		11/29/07 00:25
Uranium	7E-05	mg/L	4E-05						
Sample ID: LCS1-16960	Laboratory Control Sample						Run: SUB-C93496		11/29/07 00:33
Uranium	0.0598	mg/L	0.00030	119	80	120			
Sample ID: R07110184-004I	Post Digestion Spike						Run: SUB-C93496		11/29/07 01:18
Uranium	0.00316	mg/L	0.00030	97	70	130			
Sample ID: R07110184-004I	Post Digestion Spike Duplicate						Run: SUB-C93496		11/29/07 01:25
Uranium	0.00313	mg/L	0.00030	96	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/08
 Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93267		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C93267			11/21/07 22:44		
Aluminum	0.0462	mg/L	0.0010	92	85	115			
Arsenic	0.0508	mg/L	0.0010	102	85	115			
Barium	0.0508	mg/L	0.0010	102	85	115			
Cadmium	0.0501	mg/L	0.0010	100	85	115			
Chromium	0.0495	mg/L	0.0010	99	85	115			
Copper	0.0517	mg/L	0.0010	103	85	115			
Lead	0.0512	mg/L	0.0010	102	85	115			
Manganese	0.0497	mg/L	0.0010	99	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0508	mg/L	0.0010	102	85	115			
Thorium 232	0.0509	mg/L	0.0010	102	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			
Vanadium	0.0499	mg/L	0.0010	100	85	115			
Zinc	0.0523	mg/L	0.0010	102	85	115			
Sample ID: LRB	Method Blank			Run: SUB-C93267			11/21/07 11:49		
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C93267			11/21/07 11:53		
Uranium	0.0522	mg/L	0.00030	104	85	115			
Sample ID: C07110764-001BMS	Sample Matrix Spike			Run: SUB-C93267			11/21/07 20:01		
Uranium	0.064	mg/L	0.00030	124	70	130			
Sample ID: C07110764-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C93267			11/21/07 20:05		
Uranium	0.054	mg/L	0.00030	104	70	130	17	20	
Sample ID: LRB	Method Blank			Run: SUB-C93267			11/21/07 22:37		
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	6E-05	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	6E-05	mg/L	5E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/08
 Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93267		
Sample ID: LRB	Method Blank				Run: SUB-C93267		11/21/07 22:37		
Zinc	0.001	mg/L	0.0003						
Sample ID: R07110184-003C	Post Digestion Spike				Run: SUB-C93267		11/22/07 07:41		
Aluminum	0.0438	mg/L	0.10	86	70	130			
Arsenic	0.0512	mg/L	0.0010	102	70	130			
Barium	0.0712	mg/L	0.10	101	70	130			
Cadmium	0.0459	mg/L	0.010	92	70	130			
Chromium	0.0465	mg/L	0.050	93	70	130			
Copper	0.0483	mg/L	0.010	93	70	130			
Lead	0.0518	mg/L	0.050	104	70	130			
Manganese	0.0844	mg/L	0.010	89	70	130			
Molybdenum	0.0619	mg/L	0.10	98	70	130			
Nickel	0.0527	mg/L	0.050	90	70	130			
Thorium 232	0.0545	mg/L	0.0010	109	70	130			
Uranium	0.0681	mg/L	0.00030	107	70	130			
Vanadium	0.0484	mg/L	0.10	96	70	130			
Zinc	0.0485	mg/L	0.010	85	70	130			
Sample ID: R07110184-003C	Post Digestion Spike Duplicate				Run: SUB-C93267		11/22/07 07:48		
Aluminum	0.0462	mg/L	0.10	90	70	130	0.0	20	
Arsenic	0.0474	mg/L	0.0010	94	70	130	7.6	20	
Barium	0.0701	mg/L	0.10	99	70	130	0.0	20	
Cadmium	0.0455	mg/L	0.010	91	70	130	0.9	20	
Chromium	0.0473	mg/L	0.050	95	70	130	0.0	20	
Copper	0.0439	mg/L	0.010	84	70	130	9.7	20	
Lead	0.0517	mg/L	0.050	103	70	130	0.2	20	
Manganese	0.0861	mg/L	0.010	93	70	130	1.9	20	
Molybdenum	0.0621	mg/L	0.10	98	70	130	0.0	20	
Nickel	0.0498	mg/L	0.050	84	70	130	0.0	20	
Thorium 232	0.0545	mg/L	0.0010	109	70	130	0.1	20	
Uranium	0.0680	mg/L	0.00030	107	70	130	0.1	20	
Vanadium	0.0490	mg/L	0.10	97	70	130	0.0	20	
Zinc	0.0442	mg/L	0.010	77	70	130	9.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/08
 Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93352		
Sample ID: LRB	Method Blank				Run: SUB-C93352			11/26/07 11:53	
Mercury	ND	mg/L		8E-05					
Silver	ND	mg/L		3E-05					
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C93352			11/26/07 12:00	
Mercury	0.00513	mg/L	0.0010	103	85	115			
Silver	0.0196	mg/L	0.0010	98	85	115			
Sample ID: R07110147-001E	Post Digestion Spike				Run: SUB-C93352			11/26/07 12:20	
Mercury	0.0506	mg/L	0.0010	101	70	130			
Silver	0.188	mg/L	0.010	94	70	130			
Sample ID: R07110147-001E	Post Digestion Spike Duplicate				Run: SUB-C93352			11/26/07 12:27	
Mercury	0.0513	mg/L	0.0010	103	70	130	1.5	20	
Silver	0.190	mg/L	0.010	95	70	130	1.2	20	
Sample ID: R07110184-004C	Post Digestion Spike				Run: SUB-C93352			11/26/07 19:09	
Mercury	0.0531	mg/L	0.0010	106	70	130			
Silver	0.261	mg/L	0.010	130	70	130			
Sample ID: R07110184-004C	Post Digestion Spike Duplicate				Run: SUB-C93352			11/26/07 19:29	
Mercury	0.0529	mg/L	0.0010	106	70	130	0.4	20	
Silver	0.239	mg/L	0.010	120	70	130	8.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/08
Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R32294		
Sample ID: LFB0711160116-3	Laboratory Fortified Blank			Run: DIONEX_071116A			11/16/07 19:43		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.95	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	90	110			
Sulfate	14.0	mg/L	1.0	94	90	110			
Sample ID: LFB0711160116-4	Laboratory Fortified Blank			Run: DIONEX_071116A			11/16/07 19:59		
Chloride	4.91	mg/L	0.50	98	90	110			
Fluoride	2.01	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.47	mg/L	0.10	99	90	110			
Nitrogen, Nitrite as N	2.46	mg/L	0.10	98	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R07110184-001AMS	Sample Matrix Spike			Run: DIONEX_071116A			11/16/07 20:31		
Chloride	276	mg/L	2.0	94	80	120			
Fluoride	101	mg/L	3.2	101	80	120			
Nitrogen, Nitrate as N	122	mg/L	0.84	98	80	120			
Nitrogen, Nitrite as N	124	mg/L	1.1	99	80	120			
Sulfate	1330	mg/L	36	93	80	120			
Sample ID: R07110184-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071116A			11/16/07 20:47		
Chloride	271	mg/L	2.0	91	80	120	1.9	10	
Fluoride	98.8	mg/L	3.2	99	80	120	2.2	10	
Nitrogen, Nitrate as N	120	mg/L	0.84	96	80	120	1.6	10	
Nitrogen, Nitrite as N	121	mg/L	1.1	97	80	120	2.0	10	
Sulfate	1320	mg/L	36	91	80	120	1.3	10	
Sample ID: R07110196-001AMS	Sample Matrix Spike			Run: DIONEX_071116A			11/16/07 23:42		
Chloride	17.2	mg/L	0.50	87	80	120			
Fluoride	2.34	mg/L	0.10	97	80	120			
Nitrogen, Nitrate as N	3.63	mg/L	0.10	114	80	120			
Nitrogen, Nitrite as N	2.44	mg/L	0.10	98	80	120			
Sulfate	112	mg/L	1.0		80	120			A
Sample ID: R07110196-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071116A			11/16/07 23:58		
Chloride	17.2	mg/L	0.50	86	80	120	0.2	10	
Fluoride	2.18	mg/L	0.10	89	80	120	7.1	10	
Nitrogen, Nitrate as N	3.45	mg/L	0.10	107	80	120	5.1	10	
Nitrogen, Nitrite as N	2.29	mg/L	0.10	92	80	120	6.3	10	
Sulfate	111	mg/L	1.0		80	120	0.1	10	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/08
 Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R32339		
Sample ID: LFB0711202015-3	Laboratory Fortified Blank				Run: DIONEX_071120A		11/20/07 19:38		
Chloride	4.65	mg/L	0.50	93	90	110			
Sample ID: LFB0711202015-4	Laboratory Fortified Blank				Run: DIONEX_071120A		11/20/07 19:54		
Chloride	4.68	mg/L	0.50	94	90	110			
Method: E900.0							Batch: C_GrAB-0362		
Sample ID: MB-GrAB-0362	Method Blank				Run: SUB-C93940		12/05/07 03:47		
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0362	Laboratory Control Sample				Run: SUB-C93940		12/05/07 03:47		
Gross Alpha	300	pCi/L	1.0	105	70	130			
Sample ID: Cs137-GrAB-0362	Laboratory Control Sample				Run: SUB-C93940		12/05/07 03:47		
Gross Beta	90	pCi/L	2.0	91	70	130			
Sample ID: C07110703-001AMS	Sample Matrix Spike				Run: SUB-C93940		12/05/07 03:47		
Gross Alpha	221	pCi/L	1.0	90	70	130			
Sample ID: C07110703-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C93940		12/05/07 03:47		
Gross Alpha	195	pCi/L	1.0	79	70	130	13	13	
Sample ID: C07110703-001AMS	Sample Matrix Spike				Run: SUB-C93940		12/05/07 03:47		
Gross Beta	72.2	pCi/L	2.0	68	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the low response is considered to be matrix related. The batch is approved.									
Sample ID: C07110703-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C93940		12/05/07 03:47		
Gross Beta	86.6	pCi/L	2.0	83	70	130	18	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/08
 Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R93000		
Sample ID: LCS-R93000	Laboratory Control Sample			Run: SUB-C93000			11/16/07 10:50		
Cesium 137	1100	pCi/L	20	82	70	130			
Potassium 40	7000	pCi/L	20	105	70	130			
Sample ID: MB-R93000	Method Blank			Run: SUB-C93000			11/16/07 10:50		
Americium 241	ND	pCi/L	20						
Barium 133	ND	pCi/L	20						
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Sample ID: R07110184-004H	Sample Duplicate			Run: SUB-C93000			11/15/07 10:50		
Gross Gamma	1730	pCi/L	20				12	30	
Method: E903.0							Batch: C_RA226-2452		
Sample ID: MB-RA226-2452	Method Blank			Run: SUB-C93253			11/21/07 15:50		
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2452	Laboratory Control Sample			Run: SUB-C93253			11/21/07 15:50		
Radium 226	12	pCi/L	0.20	96	70	130			
Sample ID: R07110184-001H	Sample Matrix Spike			Run: SUB-C93253			11/27/07 13:15		
Radium 226	39	pCi/L	0.20	88	70	130			
Sample ID: R07110184-001H	Sample Matrix Spike Duplicate			Run: SUB-C93253			11/27/07 13:15		
Radium 226	43	pCi/L	0.20	108	70	130	10	22.2	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/08
 Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_16960		
Sample ID: C07110911-002FMS Thorium 230	Sample Matrix Spike 16.1	pCi/L	0.20	106	70	130			11/28/07 14:15
									Run: SUB-C94000
Sample ID: LCS-16960 Thorium 230	Laboratory Control Sample 6.70	pCi/L	0.21	114	70	130			11/28/07 14:15
									Run: SUB-C94000
Sample ID: MB-16960 Thorium 230	Method Blank ND	pCi/L	0.2						11/28/07 14:15
									Run: SUB-C94000
Method: E907.0							Batch: C_R93936		
Sample ID: LCS-R93936 Thorium 230	Laboratory Control Sample 6.40	pCi/L	0.20	108	70	130			11/29/07 14:30
									Run: SUB-C93936
Sample ID: C07110728-007AMS Thorium 230	Sample Matrix Spike 69.2	pCi/L	0.20	118	70	130			11/29/07 14:30
									Run: SUB-C93936
Sample ID: C07110728-007AMSD Thorium 230	Sample Matrix Spike Duplicate 60.3	pCi/L	0.20	103	70	130	14	30	11/29/07 14:30
									Run: SUB-C93936
Sample ID: MB-R93936 Thorium 230	Method Blank ND	pCi/L	0.2						11/29/07 14:30
									Run: SUB-C93936
Method: E909.0M							Batch: C_16960		
Sample ID: C07110911-001FMS Lead 210	Sample Matrix Spike 300	pCi/L	1.0	74	70	130			11/29/07 08:25
									Run: SUB-C93745
Sample ID: C07110911-001FMSD Lead 210	Sample Matrix Spike Duplicate 450	pCi/L	1.0	112	70	130	40	30	11/29/07 08:25
									Run: SUB-C93745
Method: E909.0M							Batch: C_R93516		
Sample ID: C07110728-001AMS Lead 210	Sample Matrix Spike 390	pCi/L	1.0	97	70	130			11/21/07 07:30
									Run: SUB-C93516
Sample ID: C07110728-001AMSD Lead 210	Sample Matrix Spike Duplicate 440	pCi/L	1.0	109	70	130	12	30	11/21/07 07:30
									Run: SUB-C93516
Sample ID: MB-R93516 Lead 210	Method Blank ND	pCi/L	1						11/21/07 07:30
									Run: SUB-C93516
Sample ID: LCS-R93516 Lead 210	Laboratory Control Sample 98	pCi/L	1.0	122	70	130			11/21/07 07:30
									Run: SUB-C93516

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/08
 Work Order: R07110184

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_16960		
Sample ID: C07110982-002FMS Polonium 210	Sample Matrix Spike 92 pCi/L		1.0	79	70	130			11/29/07 12:20
					Run: SUB-C93735				
Sample ID: C07110982-002FMSD Polonium 210	Sample Matrix Spike Duplicate 110 pCi/L		1.0	94	70	130	17	30	11/29/07 12:20
					Run: SUB-C93735				
Sample ID: LCS-16960 Polonium 210	Laboratory Control Sample 18 pCi/L		1.0	79	70	130			11/29/07 12:20
					Run: SUB-C93735				
Sample ID: MB-16960 Polonium 210	Method Blank ND pCi/L		1						11/29/07 12:20
					Run: SUB-C93735				
Method: RMO-3008							Batch: C_R93504		
Sample ID: C07110759-004HMS Polonium 210	Sample Matrix Spike 180 pCi/L		1.0	81	70	130			11/20/07 13:30
					Run: SUB-C93504				
Sample ID: C07110759-004HMSD Polonium 210	Sample Matrix Spike Duplicate 170 pCi/L		1.0	76	70	130	6.2	30	11/20/07 13:30
					Run: SUB-C93504				
Sample ID: LCS-R93504 Polonium 210	Laboratory Control Sample 17 pCi/L		1.0	77	70	130			11/20/07 13:30
					Run: SUB-C93504				
Sample ID: MB-R93504 Polonium 210	Method Blank ND pCi/L		1						11/20/07 13:30
					Run: SUB-C93504				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.
 Project Name, PWS, Permit, Etc.

Company Name: **RESPEC**
 Report Mail Address: **RESPEC**
 Invoice Address: **RESPEC**
 Special Report/Formats - ELL must be notified prior to sample submittal for the following:

Project Name, PWS, Permit, Etc.: **Respect Dreyer Barabek**
 Contact Name: **Respect Dreyer Barabek**
 Phone/Fax: **347 6400**
 Email: **Eric Kontz**
 Invoice Contact & Phone: **Eric Kontz 347 6400**

Sample Origin: **State:**
 EPA/State Compliance: **Yes** **No**
 Sampler: (Please Print) **Eric Kontz**
 Purchase Order: **Quote/Bottle Order:**

Number of Containers: **Matrix**
 Sample Type: **A W S V B O**
 Air Water Soils/Solids Vegetation Bioassay Other

ANALYSIS REQUESTED
As per quote
 SEE ATTACHED
 Normal Turnaround (TAT)
RUSH
 Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page
 Comments: **GN**
 Receipt Temp: **4.2 °C**
 On Ice: **Yes** **No**
 Custody Seal: **Y** **N**
 Inhibit: **Y** **N**
 Signature Match: **Y** **N**

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time
1 Dew Burd GN 628	11/14/07	10:59	W	<i>[Signature]</i>	11/15/07 8:15	<i>[Signature]</i>	11/15/07 8:15	<i>[Signature]</i>	11/15/07 10:15
2 Dew Burd GN 602	11/14/07	11:45	W	<i>[Signature]</i>					
3 Dew Burd GN 679	11/14/07	13:45	W	<i>[Signature]</i>					
4 Dew Burd GN 651	11/14/07	15:20	W	<i>[Signature]</i>					
5									
6									
7									
8									
9									
10									

Custody Record MUST be Signed
 Held by (print): **[Signature]** Date/Time: **11/15/07 8:15** Signature: **Eric Kontz**
 Returned by (print): **[Signature]** Date/Time: **11/15/07 10:15** Signature: **Eric Kontz**
 Received by Laboratory: **[Signature]** Date/Time: **11/15/07 10:15** Signature: **Eric Kontz**
 Received by (print): **[Signature]** Date/Time: **11/15/07 8:15** Signature: **Eric Kontz**
 Received by Laboratory: **[Signature]** Date/Time: **11/15/07 10:15** Signature: **Eric Kontz**

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

February 05, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07110303 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 8 samples from RESPEC Inc on 11/28/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07110303-001	DewBurdGW635	11/27/07 8:25	11/28/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R07110303-002	DewBurdGW676	11/27/07 12:20	11/28/07	Aqueous	Same As Above
R07110303-003	DewBurdGW678	11/27/07 13:40	11/28/07	Aqueous	Same As Above
R07110303-004	DewBurdGW677	11/27/07 15:20	11/28/07	Aqueous	Same As Above
R07110303-005	DewBurdGW08	11/27/07 16:30	11/28/07	Aqueous	Same As Above
R07110303-006	DewBurdGW08-2	11/27/07 16:40	11/28/07	Aqueous	Same As Above
R07110303-007	DewBurdGW675	11/27/07 17:34	11/28/07	Aqueous	Same As Above
R07110303-008	DewBurdGWBK02	11/28/07 11:00	11/28/07	Aqueous	Same As Above

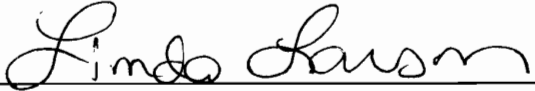
Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were



accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: 
Linda Larson
Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-001
 Client Sample ID: DewBurdGW635

Report Date: 02/04/08
 Collection Date: 11/27/07 08:25
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	118	mg/L		5			1	A2320 B	12/11/07 18:10/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	12/11/07 18:10/sn
Bicarbonate as HCO3	144	mg/L		5			1	A2320 B	12/11/07 18:10/sn
Calcium	120	mg/L		0.5			1	E200.7	12/14/07 13:03/eli-c
Chloride	23	mg/L		1			5	E300.0	11/30/07 02:16/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	11/29/07 02:58/jmh
Magnesium	49.0	mg/L		0.5			1	E200.7	12/14/07 13:03/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1			1	A4500-NH3 G	12/04/07 16:07/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	11/29/07 02:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/29/07 02:58/jmh
Potassium	8.3	mg/L		0.5			1	E200.7	12/14/07 13:03/eli-c
Silica	9.0	mg/L		0.5			1	E200.7	12/14/07 13:03/eli-c
Sodium	480	mg/L	D	8			10	E200.7	12/14/07 18:06/eli-c
Sulfate	1370	mg/L	D	40			50	E300.0	11/29/07 02:42/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2830	umhos/cm		5.0			1	A2510 B	12/02/07 13:27/jmh
Oxidation-Reduction Potential	270	mV					1	A2580 B	11/29/07 00:00/sn
pH	7.64	s.u.		0.01			1	A4500-H B	12/02/07 13:50/jmh
Sodium Adsorption Ratio (SAR)	9.3	meq/L		0.10			1	Calculation	01/16/08 16:12/sec
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5			1	A2540 C	12/03/07 13:39/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			10	E200.8	12/07/07 17:25/eli-c
Arsenic	ND	mg/L		0.001			10	E200.8	12/07/07 17:25/eli-c
Barium	ND	mg/L		0.1			10	E200.8	12/07/07 17:25/eli-c
Boron	0.4	mg/L		0.1			1	E200.7	12/14/07 13:03/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	12/07/07 17:25/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	12/07/07 17:25/eli-c
Copper	ND	mg/L		0.01			10	E200.8	12/07/07 17:25/eli-c
Iron	ND	mg/L		0.03			1	E200.7	12/14/07 13:03/eli-c
Lead	0.003	mg/L		0.001			10	E200.8	12/07/07 17:25/eli-c
Manganese	0.07	mg/L		0.01			10	E200.8	12/07/07 17:25/eli-c
Mercury	ND	mg/L		0.001			10	E200.8	12/07/07 17:25/eli-c
Molybdenum	ND	mg/L		0.1			10	E200.8	12/07/07 17:25/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	12/07/07 17:25/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	12/18/07 15:54/eli-ca
Silver	ND	mg/L		0.005			10	E200.8	12/07/07 17:25/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-001
 Client Sample ID: DewBurdGW635

Report Date: 02/04/08
 Collection Date: 11/27/07 08:25
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		10	E200.8	12/07/07 17:25/eli-c
Uranium	0.0020	mg/L		0.0003		10	E200.8	12/07/07 17:25/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	12/07/07 17:25/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8	12/07/07 17:25/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/13/07 01:29/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.001		10	E200.8	12/10/07 21:26/eli-c
METALS - SPECIATED								
Selenium-IV	0.001	mg/L		0.001		1	A3114 B	12/20/07 11:23/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/20/07 00:00/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4.4	pCi/L		1.0		1	E900.0	12/17/07 22:28/eli-c
Gross Alpha precision (±)	1.7	pCi/L				1	E900.0	12/17/07 22:28/eli-c
Gross Beta	6.3	pCi/L		2.0		1	E900.0	12/17/07 22:28/eli-c
Gross Beta precision (±)	4.7	pCi/L				1	E900.0	12/17/07 22:28/eli-c
Lead 210	1.7	pCi/L		1.0		1	E909.0M	12/10/07 07:15/eli-c
Lead 210 precision (±)	0.60	pCi/L				1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	1.9	pCi/L		1.0		1	RMO-3008	12/10/07 12:00/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	0.8	pCi/L		0.2		1	E903.0	12/17/07 12:35/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/17/07 12:35/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/10/07 14:00/eli-c
Gross Gamma	1000	pCi/L		20		1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	180	pCi/L				1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	5.1	pCi/L		1.0		1	E909.0M	12/12/07 07:00/eli-c
Lead 210 precision (±)	1.5	pCi/L				1	E909.0M	12/12/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	12/12/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/17/07 18:37/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/11/07 14:35/eli-c
RADIONUCLIDES - TOTAL								

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-001
 Client Sample ID: DewBurdGW635

Report Date: 02/04/08
 Collection Date: 11/27/07 08:25
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Radon 222	902	pCi/L		100			1	D5072-92	11/30/07 07:34/eli-c
Radon 222 precision (±)	67.7	pCi/L					1	D5072-92	11/30/07 07:34/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.831	%					1	A1030 E	01/16/08 16:41/sec
Anions	31.6	meq/L					1	A1030 E	01/16/08 16:41/sec
Cations	31.1	meq/L					1	A1030 E	01/16/08 16:41/sec
Solids, Total Dissolved Calculated	2120	mg/L					1	A1030 E	01/16/08 16:41/sec
TDS Balance (0.80 - 1.20)	1.08	dec. %					1	A1030 E	01/16/08 16:41/sec

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-002
 Client Sample ID: DewBurdGW676

Report Date: 02/04/08
 Collection Date: 11/27/07 12:20
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	228	mg/L		5		1	A2320 B	12/11/07 18:12/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/11/07 18:12/sn
Bicarbonate as HCO3	278	mg/L		5		1	A2320 B	12/11/07 18:12/sn
Calcium	514	mg/L	D	1		10	E200.7	12/14/07 18:09/eli-c
Chloride	16	mg/L		1		1	E300.0	11/29/07 04:02/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/29/07 04:02/jmh
Magnesium	113	mg/L		0.5		1	E200.7	12/14/07 13:07/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/04/07 16:09/sn
Nitrogen, Nitrate as N	1.0	mg/L		0.1		1	E300.0	11/29/07 04:02/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/29/07 04:02/jmh
Potassium	12.3	mg/L		0.5		1	E200.7	12/14/07 13:07/eli-c
Silica	14.4	mg/L		0.5		1	E200.7	12/14/07 13:07/eli-c
Sodium	88.8	mg/L	D	0.8		1	E200.7	12/14/07 13:07/eli-c
Sulfate	1720	mg/L	D	40		50	E300.0	11/29/07 03:14/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2860	umhos/cm		5.0		1	A2510 B	12/02/07 13:28/jmh
Oxidation-Reduction Potential	250	mV				1	A2580 B	11/29/07 00:00/sn
pH	7.17	s.u.		0.01		1	A4500-H B	12/02/07 13:51/jmh
Sodium Adsorption Ratio (SAR)	0.92	meq/L		0.10		1	Calculation	01/16/08 16:12/sec
Solids, Total Dissolved TDS @ 180 C	2900	mg/L		5		1	A2540 C	12/03/07 13:40/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	12/07/07 17:31/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	12/07/07 17:31/eli-c
Barium	ND	mg/L		0.1		10	E200.8	12/07/07 17:31/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	12/14/07 13:07/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	12/07/07 17:31/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	12/07/07 17:31/eli-c
Copper	ND	mg/L		0.01		10	E200.8	12/07/07 17:31/eli-c
Iron	ND	mg/L		0.03		1	E200.7	12/14/07 13:07/eli-c
Lead	ND	mg/L		0.001		10	E200.8	12/07/07 17:31/eli-c
Manganese	ND	mg/L		0.01		10	E200.8	12/07/07 17:31/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	12/07/07 17:31/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	12/07/07 17:31/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	12/07/07 17:31/eli-c
Selenium	0.014	mg/L		0.001		1	A3114 B	12/18/07 15:56/eli-c
Silver	ND	mg/L		0.005		10	E200.8	12/07/07 17:31/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-002
 Client Sample ID: DewBurdGW676

Report Date: 02/04/08
 Collection Date: 11/27/07 12:20
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			10	E200.8	12/07/07 17:31/eli-c
Uranium	0.0548	mg/L		0.0003			10	E200.8	12/07/07 17:31/eli-c
Vanadium	ND	mg/L		0.1			10	E200.8	12/07/07 17:31/eli-c
Zinc	0.03	mg/L		0.01			10	E200.8	12/07/07 17:31/eli-c
METALS - SUSPENDED									
Uranium	0.0011	mg/L		0.0003			1	E200.8	12/13/07 01:33/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.001			10	E200.8	12/10/07 21:33/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	12/20/07 11:25/eli-ca
Selenium-VI	0.014	mg/L		0.001			1	A3114 B	12/20/07 00:00/eli-ca
RADIONUCLIDES - DISSOLVED									
Gross Alpha	31.9	pCi/L		1.0			1	E900.0	12/17/07 22:28/eli-c
Gross Alpha precision (±)	2.3	pCi/L					1	E900.0	12/17/07 22:28/eli-c
Gross Beta	21.6	pCi/L		2.0			1	E900.0	12/17/07 22:28/eli-c
Gross Beta precision (±)	5.0	pCi/L					1	E900.0	12/17/07 22:28/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	1.2	pCi/L		1.0			1	RMO-3008	12/10/07 12:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L					1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/17/07 12:35/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/10/07 14:00/eli-c
Gross Gamma	1000	pCi/L		20			1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	200	pCi/L					1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/12/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	12/12/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2			1	E903.0	12/17/07 18:37/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/11/07 14:35/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	453	pCi/L		100			1	D5072-92	11/30/07 07:34/eli-c
Radon 222 precision (±)	60.5	pCi/L					1	D5072-92	11/30/07 07:34/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110303-002
Client Sample ID: DewBurdGW676

Report Date: 02/04/08
Collection Date: 11/27/07 12:20
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	-2.19	%				1	A1030 E	01/16/08 16:42/sec
Anions	40.9	meq/L				1	A1030 E	01/16/08 16:42/sec
Cations	39.1	meq/L				1	A1030 E	01/16/08 16:42/sec
Solids, Total Dissolved Calculated	2600	mg/L				1	A1030 E	01/16/08 16:42/sec
TDS Balance (0.80 - 1.20)	1.12	dec. %				1	A1030 E	01/16/08 16:42/sec

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-003
 Client Sample ID: DewBurdGW678

Report Date: 02/04/08
 Collection Date: 11/27/07 13:40
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	480	mg/L		5		1	A2320 B	12/11/07 18:16/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/11/07 18:16/sn
Bicarbonate as HCO3	585	mg/L		5		1	A2320 B	12/11/07 18:16/sn
Calcium	422	mg/L	D	1		10	E200.7	12/14/07 18:12/eli-c
Chloride	61	mg/L	D	2		50	E300.0	11/29/07 04:18/jmh
Fluoride	0.9	mg/L		0.1		1	E300.0	11/29/07 05:06/jmh
Magnesium	434	mg/L		0.5		10	E200.7	12/14/07 18:12/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/04/07 16:10/sn
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	11/29/07 05:06/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/29/07 05:06/jmh
Potassium	20.1	mg/L		0.5		1	E200.7	12/14/07 13:10/eli-c
Silica	15.4	mg/L		0.5		1	E200.7	12/14/07 13:10/eli-c
Sodium	609	mg/L	D	8		10	E200.7	12/14/07 18:12/eli-c
Sulfate	3440	mg/L	D	40		50	E300.0	11/29/07 04:18/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5780	umhos/cm		5.0		1	A2510 B	12/02/07 13:29/jmh
Oxidation-Reduction Potential	210	mV				1	A2580 B	11/29/07 00:00/sn
pH	7.42	s.u.		0.01		1	A4500-H B	12/02/07 13:52/jmh
Sodium Adsorption Ratio (SAR)	5.0	meq/L		0.10		1	Calculation	01/16/08 16:12/sec
Solids, Total Dissolved TDS @ 180 C	6100	mg/L		5		1	A2540 C	12/03/07 13:43/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	12/07/07 17:38/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	12/07/07 17:38/eli-c
Barium	ND	mg/L		0.1		10	E200.8	12/07/07 17:38/eli-c
Boron	1.4	mg/L		0.1		1	E200.7	12/14/07 13:10/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	12/07/07 17:38/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	12/07/07 17:38/eli-c
Copper	ND	mg/L		0.01		10	E200.8	12/07/07 17:38/eli-c
Iron	ND	mg/L		0.03		1	E200.7	12/14/07 13:10/eli-c
Lead	ND	mg/L		0.001		10	E200.8	12/07/07 17:38/eli-c
Manganese	3.31	mg/L		0.01		10	E200.8	12/07/07 17:38/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	12/07/07 17:38/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	12/07/07 17:38/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	12/07/07 17:38/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/18/07 15:58/eli-c
Silver	ND	mg/L		0.005		10	E200.8	12/07/07 17:38/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-003
 Client Sample ID: DewBurdGW678

Report Date: 02/04/08
 Collection Date: 11/27/07 13:40
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		10	E200.8 12/07/07 17:38/eli-c
Uranium	0.0349	mg/L		0.0003		10	E200.8 12/07/07 17:38/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8 12/07/07 17:38/eli-c
Zinc	0.01	mg/L		0.01		10	E200.8 12/07/07 17:38/eli-c
METALS - SUSPENDED							
Uranium	0.0008	mg/L		0.0003		1	E200.8 12/13/07 01:37/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.001		10	E200.8 12/10/07 21:39/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/20/07 11:27/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B 12/20/07 00:00/eli-ca
RADIONUCLIDES - DISSOLVED							
Gross Alpha	18.9	pCi/L		1.0		1	E900.0 12/17/07 22:28/eli-c
Gross Alpha precision (±)	5.3	pCi/L				1	E900.0 12/17/07 22:28/eli-c
Gross Beta	35.3	pCi/L		2.0		1	E900.0 12/17/07 22:28/eli-c
Gross Beta precision (±)	14.4	pCi/L				1	E900.0 12/17/07 22:28/eli-c
Lead 210	4.0	pCi/L		1.0		1	E909.0M 12/10/07 07:15/eli-c
Lead 210 precision (±)	0.90	pCi/L				1	E909.0M 12/10/07 07:15/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 12/10/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/17/07 12:35/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/10/07 14:00/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1 12/05/07 10:50/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1 12/05/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/12/07 07:00/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008 12/12/07 12:00/eli-c
Polonium 210 precision (±)	0.69	pCi/L				1	RMO-3008 12/12/07 12:00/eli-c
Radium 226	0.7	pCi/L		0.2		1	E903.0 12/17/07 18:37/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 12/17/07 18:37/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/11/07 14:35/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	391	pCi/L		100		1	D5072-92 11/30/07 07:34/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-003
 Client Sample ID: DewBurdGW678

Report Date: 02/04/08
 Collection Date: 11/27/07 13:40
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Radon 222 precision (±)	59.2	pCi/L					1	D5072-92	11/30/07 07:34/eli-c
DATA QUALITY									
A/C Balance (± 5)	0.551	%					1	A1030 E	01/16/08 16:43/sec
Anions	83.1	meq/L					1	A1030 E	01/16/08 16:43/sec
Cations	84.0	meq/L					1	A1030 E	01/16/08 16:43/sec
Solids, Total Dissolved Calculated	5280	mg/L					1	A1030 E	01/16/08 16:43/sec
TDS Balance (0.80 - 1.20)	1.16	dec. %					1	A1030 E	01/16/08 16:43/sec

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-004
 Client Sample ID: DewBurdGW677

Report Date: 02/04/08
 Collection Date: 11/27/07 15:20
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	482	mg/L		5		1	A2320 B 12/11/07 18:19/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B 12/11/07 18:19/sn
Bicarbonate as HCO3	588	mg/L		5		1	A2320 B 12/11/07 18:19/sn
Calcium	454	mg/L	D	1		10	E200.7 12/14/07 18:15/eli-c
Chloride	1780	mg/L	D	4		100	E300.0 11/30/07 02:31/jmh
Fluoride	0.1	mg/L		0.1		1	E300.0 11/29/07 05:37/jmh
Magnesium	395	mg/L		0.5		10	E200.7 12/14/07 18:15/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 12/04/07 16:11/sn
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0 11/29/07 05:37/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 11/29/07 05:37/jmh
Potassium	11.0	mg/L		0.5		1	E200.7 12/14/07 13:13/eli-c
Silica	10	mg/L		0.5		1	E200.7 12/14/07 13:13/eli-c
Sodium	1880	mg/L	D	8		10	E200.7 12/14/07 18:15/eli-c
Sulfate	4590	mg/L	D	40		50	E300.0 11/29/07 05:22/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	10800	umhos/cm		5.0		1	A2510 B 12/02/07 13:30/jmh
Oxidation-Reduction Potential	200	mV				1	A2580 B 11/29/07 00:00/sn
pH	7.14	s.u.		0.01		1	A4500-H B 12/02/07 13:52/jmh
Sodium Adsorption Ratio (SAR)	16	meq/L		0.10		1	Calculation 01/16/08 16:12/sec
Solids, Total Dissolved TDS @ 180 C	9700	mg/L		5		1	A2540 C 12/03/07 13:45/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		10	E200.8 12/07/07 17:45/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8 12/07/07 17:45/eli-c
Barium	ND	mg/L		0.1		10	E200.8 12/07/07 17:45/eli-c
Boron	0.8	mg/L		0.1		1	E200.7 12/14/07 13:13/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8 12/07/07 17:45/eli-c
Chromium	ND	mg/L		0.05		10	E200.8 12/07/07 17:45/eli-c
Copper	ND	mg/L		0.01		10	E200.8 12/07/07 17:45/eli-c
Iron	ND	mg/L		0.03		1	E200.7 12/14/07 13:13/eli-c
Lead	ND	mg/L		0.001		10	E200.8 12/07/07 17:45/eli-c
Manganese	2.55	mg/L		0.01		10	E200.8 12/07/07 17:45/eli-c
Mercury	ND	mg/L		0.001		10	E200.8 12/07/07 17:45/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8 12/07/07 17:45/eli-c
Nickel	ND	mg/L		0.05		10	E200.8 12/07/07 17:45/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 12/18/07 16:00/eli-c
Silver	ND	mg/L		0.005		10	E200.8 12/07/07 17:45/eli-c

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-004
 Client Sample ID: DewBurdGW677

Report Date: 02/04/08
 Collection Date: 11/27/07 15:20
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		10	E200.8	12/07/07 17:45/eli-c
Uranium	0.0443	mg/L		0.0003		10	E200.8	12/07/07 17:45/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	12/07/07 17:45/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8	12/07/07 17:45/eli-c
METALS - SUSPENDED								
Uranium	0.0049	mg/L		0.0003		1	E200.8	12/13/07 01:50/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.001		10	E200.8	12/10/07 21:46/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/20/07 11:29/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/20/07 00:00/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	38.7	pCi/L		1.0		1	E900.0	12/17/07 22:28/eli-c
Gross Alpha precision (±)	5.4	pCi/L				1	E900.0	12/17/07 22:28/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	12/17/07 22:28/eli-c
Lead 210	1.1	pCi/L		1.0		1	E909.0M	12/10/07 07:15/eli-c
Lead 210 precision (±)	0.50	pCi/L				1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/17/07 12:35/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/10/07 14:00/eli-c
Gross Gamma	1000	pCi/L		20		1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/12/07 07:00/eli-c
Polonium 210	2.5	pCi/L		1.0		1	RMO-3008	12/12/07 12:00/eli-c
Polonium 210 precision (±)	0.93	pCi/L				1	RMO-3008	12/12/07 12:00/eli-c
Radium 226	2.7	pCi/L		0.2		1	E903.0	12/17/07 18:37/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	12/17/07 18:37/eli-c
Thorium 230	2.2	pCi/L		0.2		1	E907.0	12/11/07 14:35/eli-c
Thorium 230 precision (±)	0.5	pCi/L				1	E907.0	12/11/07 14:35/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	892	pCi/L		100		1	D5072-92	11/30/07 07:34/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-004
 Client Sample ID: DewBurdGW677

Report Date: 02/04/08
 Collection Date: 11/27/07 15:20
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Radon 222 precision (±)	64.6	pCi/L					1	D5072-92	11/30/07 07:34/eli-c
DATA QUALITY									
A/C Balance (± 5)	-3.76	%					1	A1030 E	01/16/08 16:45/sec
Anions	148	meq/L					1	A1030 E	01/16/08 16:45/sec
Cations	138	meq/L					1	A1030 E	01/16/08 16:45/sec
Solids, Total Dissolved Calculated	9070	mg/L					1	A1030 E	01/16/08 16:45/sec
TDS Balance (0.80 - 1.20)	1.07	dec. %					1	A1030 E	01/16/08 16:45/sec
- Ion Balance achieved using Sulfate from E200.7.									

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-005
 Client Sample ID: DewBurdGW08

Report Date: 02/04/08
 Collection Date: 11/27/07 16:30
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B 12/11/07 18:21/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B 12/11/07 18:21/sn
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B 12/11/07 18:21/sn
Calcium	56.4	mg/L		0.5		1	E200.7 12/14/07 13:17/eli-c
Chloride	12	mg/L		1		1	E300.0 11/29/07 06:09/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 11/29/07 06:09/jmh
Magnesium	24.6	mg/L		0.5		1	E200.7 12/14/07 13:17/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 12/04/07 16:12/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 11/29/07 06:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 11/29/07 06:09/jmh
Potassium	15.7	mg/L		0.5		1	E200.7 12/14/07 13:17/eli-c
Silica	6.7	mg/L		0.5		1	E200.7 12/14/07 13:17/eli-c
Sodium	199	mg/L	D	0.8		1	E200.7 12/14/07 13:17/eli-c
Sulfate	594	mg/L	D	40		50	E300.0 11/29/07 05:53/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1420	umhos/cm		5.0		1	A2510 B 12/02/07 13:31/jmh
Oxidation-Reduction Potential	150	mV				1	A2580 B 11/29/07 00:00/sn
pH	7.95	s.u.		0.01		1	A4500-H B 12/02/07 13:53/jmh
Sodium Adsorption Ratio (SAR)	5.6	meq/L		0.10		1	Calculation 01/16/08 16:12/sec
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C 12/03/07 13:46/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		10	E200.8 12/07/07 18:12/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8 12/07/07 18:12/eli-c
Barium	ND	mg/L		0.1		10	E200.8 12/07/07 18:12/eli-c
Boron	ND	mg/L		0.1		1	E200.7 12/14/07 13:17/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8 12/07/07 18:12/eli-c
Chromium	ND	mg/L		0.05		10	E200.8 12/07/07 18:12/eli-c
Copper	ND	mg/L		0.01		10	E200.8 12/07/07 18:12/eli-c
Iron	ND	mg/L		0.03		1	E200.7 12/14/07 13:17/eli-c
Lead	ND	mg/L		0.001		10	E200.8 12/07/07 18:12/eli-c
Manganese	0.11	mg/L		0.01		10	E200.8 12/07/07 18:12/eli-c
Mercury	ND	mg/L		0.001		10	E200.8 12/07/07 18:12/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8 12/07/07 18:12/eli-c
Nickel	ND	mg/L		0.05		10	E200.8 12/07/07 18:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 12/18/07 16:02/eli-c
Silver	ND	mg/L		0.005		10	E200.8 12/07/07 18:12/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-005
 Client Sample ID: DewBurdGW08

Report Date: 02/04/08
 Collection Date: 11/27/07 16:30
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		10	E200.8 12/07/07 18:12/eli-c
Uranium	0.0003	mg/L		0.0003		10	E200.8 12/07/07 18:12/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8 12/07/07 18:12/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8 12/07/07 18:12/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 12/13/07 01:54/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.001		10	E200.8 12/10/07 21:53/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 12/20/07 11:31/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B 12/20/07 00:00/eli-ca
RADIONUCLIDES - DISSOLVED							
Gross Alpha	8.7	pCi/L		1.0		1	E900.0 12/17/07 22:28/eli-c
Gross Alpha precision (±)	1.1	pCi/L				1	E900.0 12/17/07 22:28/eli-c
Gross Beta	25.0	pCi/L		2.0		1	E900.0 12/17/07 22:28/eli-c
Gross Beta precision (±)	2.7	pCi/L				1	E900.0 12/17/07 22:28/eli-c
Lead 210	4.0	pCi/L		1.0		1	E909.0M 12/10/07 07:15/eli-c
Lead 210 precision (±)	0.90	pCi/L				1	E909.0M 12/10/07 07:15/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 12/10/07 12:00/eli-c
Radium 226	2.7	pCi/L		0.2		1	E903.0 12/17/07 12:35/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 12/17/07 12:35/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/10/07 14:00/eli-c
Gross Gamma	970	pCi/L		20		1	E901.1 12/05/07 10:50/eli-c
Gross Gamma precision (±)	180	pCi/L				1	E901.1 12/05/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1	E909.0M 12/12/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008 12/12/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0 12/18/07 09:05/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0 12/11/07 14:35/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	123	pCi/L		100		1	D5072-92 11/30/07 07:34/eli-c
Radon 222 precision (±)	54.5	pCi/L				1	D5072-92 11/30/07 07:34/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-005
 Client Sample ID: DewBurdGW08

Report Date: 02/04/08
 Collection Date: 11/27/07 16:30
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
DATA QUALITY								
A/C Balance (± 5)	-3.23	%				1	A1030 E	01/16/08 16:48/sec
Anions	14.8	meq/L				1	A1030 E	01/16/08 16:48/sec
Cations	13.9	meq/L				1	A1030 E	01/16/08 16:48/sec
Solids, Total Dissolved Calculated	939	mg/L				1	A1030 E	01/16/08 16:48/sec
TDS Balance (0.80 - 1.20)	1.12	dec. %				1	A1030 E	01/16/08 16:48/sec
- Ion Balance achieved using Sulfate from E200.7.								

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-006
 Client Sample ID: DewBurdGW08-2

Report Date: 02/04/08
 Collection Date: 11/27/07 16:40
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	156	mg/L		5		1	A2320 B 12/11/07 18:23/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B 12/11/07 18:23/sn
Bicarbonate as HCO3	190	mg/L		5		1	A2320 B 12/11/07 18:23/sn
Calcium	55.1	mg/L		0.5		1	E200.7 12/14/07 13:20/eli-c
Chloride	12	mg/L		1		1	E300.0 11/29/07 07:13/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 11/29/07 07:13/jmh
Magnesium	24.5	mg/L		0.5		1	E200.7 12/14/07 13:20/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G 12/04/07 16:13/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 11/29/07 07:13/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 11/29/07 07:13/jmh
Potassium	15.2	mg/L		0.5		1	E200.7 12/14/07 13:20/eli-c
Silica	6.6	mg/L		0.5		1	E200.7 12/14/07 13:20/eli-c
Sodium	201	mg/L	D	0.8		1	E200.7 12/14/07 13:20/eli-c
Sulfate	570	mg/L	D	40		50	E300.0 11/29/07 06:25/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1420	umhos/cm		5.0		1	A2510 B 12/02/07 13:32/jmh
Oxidation-Reduction Potential	150	mV				1	A2580 B 11/29/07 00:00/sn
pH	7.94	s.u.		0.01		1	A4500-H B 12/02/07 13:54/jmh
Sodium Adsorption Ratio (SAR)	5.7	meq/L		0.10		1	Calculation 01/16/08 16:12/sec
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C 12/03/07 13:47/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		10	E200.8 12/07/07 18:19/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8 12/07/07 18:19/eli-c
Barium	ND	mg/L		0.1		10	E200.8 12/07/07 18:19/eli-c
Boron	ND	mg/L		0.1		1	E200.7 12/14/07 13:20/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8 12/07/07 18:19/eli-c
Chromium	ND	mg/L		0.05		10	E200.8 12/07/07 18:19/eli-c
Copper	ND	mg/L		0.01		10	E200.8 12/07/07 18:19/eli-c
Iron	ND	mg/L		0.03		1	E200.7 12/14/07 13:20/eli-c
Lead	ND	mg/L		0.001		10	E200.8 12/07/07 18:19/eli-c
Manganese	0.11	mg/L		0.01		10	E200.8 12/07/07 18:19/eli-c
Mercury	ND	mg/L		0.001		10	E200.8 12/07/07 18:19/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8 12/07/07 18:19/eli-c
Nickel	ND	mg/L		0.05		10	E200.8 12/07/07 18:19/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 12/18/07 16:04/eli-c
Silver	ND	mg/L		0.005		10	E200.8 12/07/07 18:19/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-006
 Client Sample ID: DewBurdGW08-2

Report Date: 02/04/08
 Collection Date: 11/27/07 16:40
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		10 E200.8	12/07/07 18:19/eli-c
Uranium	ND	mg/L		0.0003		10 E200.8	12/07/07 18:19/eli-c
Vanadium	ND	mg/L		0.1		10 E200.8	12/07/07 18:19/eli-c
Zinc	0.01	mg/L		0.01		10 E200.8	12/07/07 18:19/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	12/13/07 01:58/eli-c
METALS - TOTAL							
Mercury	ND	mg/L		0.001		10 E200.8	12/10/07 22:00/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	12/20/07 11:33/eli-ca
Selenium-VI	ND	mg/L		0.001		1 A3114 B	12/20/07 00:00/eli-ca
RADIONUCLIDES - DISSOLVED							
Gross Alpha	9.0	pCi/L		1.0		1 E900.0	12/17/07 22:28/eli-c
Gross Alpha precision (±)	1.1	pCi/L				1 E900.0	12/17/07 22:28/eli-c
Gross Beta	29.1	pCi/L		2.0		1 E900.0	12/17/07 22:28/eli-c
Gross Beta precision (±)	2.8	pCi/L				1 E900.0	12/17/07 22:28/eli-c
Lead 210	ND	pCi/L		1.0		1 E909.0M	12/10/07 07:15/eli-c
Polonium 210	ND	pCi/L		1.0		1 RMO-3008	12/10/07 12:00/eli-c
Radium 226	1.9	pCi/L		0.2		1 E903.0	12/17/07 12:35/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	12/17/07 12:35/eli-c
Thorium 230	ND	pCi/L		0.2		1 E907.0	12/10/07 14:00/eli-c
Gross Gamma	1200	pCi/L		20		1 E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	200	pCi/L				1 E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1 E909.0M	12/12/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1 RMO-3008	12/12/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1 E903.0	12/18/07 09:05/eli-c
Thorium 230	ND	pCi/L		0.2		1 E907.0	12/11/07 14:35/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	197	pCi/L		100		1 D5072-92	11/30/07 07:34/eli-c
Radon 222 precision (±)	55.4	pCi/L				1 D5072-92	11/30/07 07:34/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110303-006
Client Sample ID: DewBurdGW08-2

Report Date: 02/04/08
Collection Date: 11/27/07 16:40
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
A/C Balance (± 5)	-4.83	%				1	A1030 E	01/16/08 16:48/sec
Anions	15.4	meq/L				1	A1030 E	01/16/08 16:48/sec
Cations	13.9	meq/L				1	A1030 E	01/16/08 16:48/sec
Solids, Total Dissolved Calculated	973	mg/L				1	A1030 E	01/16/08 16:48/sec
TDS Balance (0.80 - 1.20)	1.09	dec. %				1	A1030 E	01/16/08 16:48/sec

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-007
 Client Sample ID: DewBurdGW675

Report Date: 02/04/08
 Collection Date: 11/27/07 17:34
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	352	mg/L		5		1	A2320 B	12/11/07 18:25/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/11/07 18:25/sn
Bicarbonate as HCO3	429	mg/L		5		1	A2320 B	12/11/07 18:25/sn
Calcium	410	mg/L	D	1		10	E200.7	12/14/07 18:25/eli-c
Chloride	60	mg/L	D	2		50	E300.0	11/29/07 07:29/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/29/07 08:17/jmh
Magnesium	362	mg/L		0.5		10	E200.7	12/14/07 18:25/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G	12/04/07 16:15/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/29/07 08:17/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/29/07 08:17/jmh
Potassium	25.2	mg/L		0.5		1	E200.7	12/14/07 13:23/eli-c
Silica	14.9	mg/L		0.5		1	E200.7	12/14/07 13:23/eli-c
Sodium	713	mg/L	D	8		10	E200.7	12/14/07 18:25/eli-c
Sulfate	3420	mg/L	D	40		50	E300.0	11/29/07 07:29/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5830	umhos/cm		5.0		1	A2510 B	12/02/07 13:33/jmh
Oxidation-Reduction Potential	220	mV				1	A2580 B	11/29/07 00:00/sn
pH	7.32	s.u.		0.01		1	A4500-H B	12/02/07 13:54/jmh
Sodium Adsorption Ratio (SAR)	6.2	meq/L		0.10		1	Calculation	01/16/08 16:12/sec
Solids, Total Dissolved TDS @ 180 C	6100	mg/L		5		1	A2540 C	12/03/07 13:49/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	12/07/07 18:39/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	12/07/07 18:39/eli-c
Barium	ND	mg/L		0.1		10	E200.8	12/07/07 18:39/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	12/14/07 13:23/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	12/07/07 18:39/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	12/07/07 18:39/eli-c
Copper	ND	mg/L		0.01		10	E200.8	12/07/07 18:39/eli-c
Iron	0.05	mg/L		0.03		1	E200.7	12/14/07 13:23/eli-c
Lead	ND	mg/L		0.001		10	E200.8	12/07/07 18:39/eli-c
Manganese	3.14	mg/L		0.01		10	E200.8	12/07/07 18:39/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	12/07/07 18:39/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	12/07/07 18:39/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	12/07/07 18:39/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/18/07 16:06/eli-c
Silver	ND	mg/L		0.005		10	E200.8	12/07/07 18:39/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-007
 Client Sample ID: DewBurdGW675

Report Date: 02/04/08
 Collection Date: 11/27/07 17:34
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			10	E200.8	12/07/07 18:39/eli-c
Uranium	0.0307	mg/L		0.0003			10	E200.8	12/07/07 18:39/eli-c
Vanadium	ND	mg/L		0.1			10	E200.8	12/07/07 18:39/eli-c
Zinc	0.02	mg/L		0.01			10	E200.8	12/07/07 18:39/eli-c
METALS - SUSPENDED									
Uranium	0.0030	mg/L		0.0003			1	E200.8	12/13/07 20:29/eli-c
METALS - TOTAL									
Mercury	ND	mg/L		0.001			10	E200.8	12/10/07 22:20/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	12/20/07 11:35/eli-ca
Selenium-VI	ND	mg/L		0.001			1	A3114 B	12/20/07 00:00/eli-ca
RADIONUCLIDES - DISSOLVED									
Gross Alpha	18.3	pCi/L		1.0			1	E900.0	12/19/07 02:27/eli-c
Gross Alpha precision (±)	5.3	pCi/L					1	E900.0	12/19/07 02:27/eli-c
Gross Beta	ND	pCi/L		2.0			1	E900.0	12/19/07 02:27/eli-c
Lead 210	6.0	pCi/L		1.0			1	E909.0M	12/12/07 07:00/eli-c
Lead 210 precision (±)	1.5	pCi/L					1	E909.0M	12/12/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	0.5	pCi/L		0.2			1	E903.0	12/17/07 16:18/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	12/17/07 16:18/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	12/20/07 14:15/eli-c
Gross Gamma	1100	pCi/L		20			1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	210	pCi/L					1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	12/13/07 08:00/eli-c
Polonium 210	2.0	pCi/L		1.0			1	RMO-3008	12/18/07 12:00/eli-c
Polonium 210 precision (±)	0.89	pCi/L					1	RMO-3008	12/18/07 12:00/eli-c
Radium 226	1.7	pCi/L		0.2			1	E903.0	12/19/07 11:19/eli-c
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	12/19/07 11:19/eli-c
Thorium 230	1.3	pCi/L		0.2			1	E907.0	12/12/07 16:10/eli-c
Thorium 230 precision (±)	0.4	pCi/L					1	E907.0	12/12/07 16:10/eli-c
RADIONUCLIDES - TOTAL									

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-007
 Client Sample ID: DewBurdGW675

Report Date: 02/04/08
 Collection Date: 11/27/07 17:34
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Radon 222	712	pCi/L		100			1	D5072-92	11/30/07 07:34/eli-c
Radon 222 precision (±)	61.6	pCi/L					1	D5072-92	11/30/07 07:34/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.35	%					1	A1030 E	01/16/08 16:49/sec
Anions	80.0	meq/L					1	A1030 E	01/16/08 16:49/sec
Cations	82.2	meq/L					1	A1030 E	01/16/08 16:49/sec
Solids, Total Dissolved Calculated	5200	mg/L					1	A1030 E	01/16/08 16:49/sec
TDS Balance (0.80 - 1.20)	1.17	dec. %					1	A1030 E	01/16/08 16:49/sec

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-008
 Client Sample ID: DewBurdGWBK02

Report Date: 02/04/08
 Collection Date: 11/28/07 11:00
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	12/11/07 18:27/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/11/07 18:27/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	12/11/07 18:27/sn
Calcium	ND	mg/L		0.5		1	E200.7	12/14/07 16:57/eli-c
Chloride	ND	mg/L		1		1	E300.0	11/29/07 08:33/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	11/29/07 08:33/jmh
Magnesium	ND	mg/L		0.5		1	E200.7	12/14/07 16:57/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/04/07 16:16/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/29/07 08:33/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/29/07 08:33/jmh
Potassium	ND	mg/L		0.5		1	E200.7	12/14/07 16:57/eli-c
Silica	ND	mg/L		0.5		1	E200.7	12/14/07 16:57/eli-c
Sodium	1.3	mg/L	D	0.8		1	E200.7	12/14/07 16:57/eli-c
Sulfate	2	mg/L		1		1	E300.0	11/29/07 08:33/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	12/02/07 13:34/jmh
Oxidation-Reduction Potential	340	mV				1	A2580 B	11/29/07 00:00/sn
pH	5.63	s.u.		0.01		1	A4500-H B	12/02/07 13:59/jmh
Sodium Adsorption Ratio (SAR)	0.22	meq/L		0.10		1	Calculation	01/16/08 16:12/sec
Solids, Total Dissolved TDS @ 180 C	24	mg/L		5		1	A2540 C	12/03/07 13:50/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	12/07/07 18:46/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	12/07/07 18:46/eli-c
Barium	ND	mg/L		0.1		10	E200.8	12/07/07 18:46/eli-c
Boron	ND	mg/L		0.1		1	E200.7	12/14/07 16:57/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	12/07/07 18:46/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	12/07/07 18:46/eli-c
Copper	ND	mg/L		0.01		10	E200.8	12/07/07 18:46/eli-c
Iron	ND	mg/L		0.03		1	E200.7	12/14/07 16:57/eli-c
Lead	ND	mg/L		0.001		10	E200.8	12/07/07 18:46/eli-c
Manganese	ND	mg/L		0.01		10	E200.8	12/07/07 18:46/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	12/07/07 18:46/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	12/07/07 18:46/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	12/07/07 18:46/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/18/07 16:08/eli-c
Silver	0.005	mg/L		0.005		10	E200.8	12/07/07 18:46/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R07110303-008
 Client Sample ID: DewBurdGWBK02

Report Date: 02/04/08
 Collection Date: 11/28/07 11:00
 Date Received: 11/28/07
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		10	E200.8	12/07/07 18:46/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	12/07/07 18:46/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	12/07/07 18:46/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8	12/07/07 18:46/eli-c
METALS - SUSPENDED								
Uranium	0.0006	mg/L		0.0003		1	E200.8	12/13/07 02:02/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.001		10	E200.8	12/10/07 22:27/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/20/07 11:38/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/20/07 00:00/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	ND	pCi/L		1.0		1	E900.0	12/19/07 02:27/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	12/19/07 02:27/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/17/07 12:35/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/10/07 14:00/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	180	pCi/L				1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/12/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	12/12/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/18/07 09:05/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/11/07 14:35/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	ND	pCi/L		100		1	D5072-92	11/30/07 07:34/eli-c
DATA QUALITY								
Anions	0.117	meq/L				1	A1030 E	01/16/08 16:50/sec
Cations	0.0574	meq/L				1	A1030 E	01/16/08 16:50/sec

- The Ion and TDS balances are not appropriate for near blank results.

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 071211A-ALK-SEL-W		
Sample ID: MBLK1_071211A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3			Run: PH_COND1-R_071211A			12/11/07 17:56
Sample ID: LCS1_071211A Alkalinity, Total as CaCO3	Laboratory Control Sample 1010	mg/L	5.0	101	90	110	Run: PH_COND1-R_071211A		12/11/07 17:57
Sample ID: R07110303-008AMS Alkalinity, Total as CaCO3 - S=Surrogate recovery outside QC advisory limits due to sample matrix interference.	Sample Matrix Spike 16.0	mg/L	5.0	11	80	120	Run: PH_COND1-R_071211A		12/11/07 18:30 S
Sample ID: R07110303-008AMSD Alkalinity, Total as CaCO3 - S=Surrogate recovery outside QC advisory limits due to sample matrix interference.	Sample Matrix Spike Duplicate 18.0	mg/L	5.0	13	80	120	12	10	12/11/07 18:30 SR
Method: A2510 B							Batch: 071202_1_COND-PROBE-W		
Sample ID: LCS1-1_071202 Conductivity @ 25 C	Laboratory Control Sample 152	umhos/cm	5.0	101	90	110	Run: PH_COND2-R_071202A		12/02/07 13:11
Sample ID: LCS2-1_071202 Conductivity @ 25 C	Laboratory Control Sample 5010	umhos/cm	5.0	100	90	110	Run: PH_COND2-R_071202A		12/02/07 13:12
Sample ID: LCS_COND-1_071202 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110	Run: PH_COND2-R_071202A		12/02/07 13:13
Sample ID: MBLK-1_071202 Conductivity @ 25 C	Method Blank ND	umhos/cm	5				Run: PH_COND2-R_071202A		12/02/07 13:13
Method: A2540 C							Batch: 071203A-SLDS-TDS-W		
Sample ID: MBLK1_071203A Solids, Total Dissolved TDS @ 180 C	Method Blank 4	mg/L	3			Run: BAL-4-R_071203A			12/03/07 13:11
Sample ID: LCS1_071203A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	106	90	110	Run: BAL-4-R_071203A		12/03/07 13:12
Sample ID: R07110303-002AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 3100	mg/L	5.0	88	80	120	Run: BAL-4-R_071203A		12/03/07 13:42
Sample ID: R07110303-002AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 3100	mg/L	5.0	102	80	120	0.9	10	12/03/07 13:43

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-071218A		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	0.0004						Run: SUB-C94455 12/18/07 15:35
Sample ID: 288-7-2	Laboratory Control Sample								
Selenium	0.051	mg/L	0.0010	101	90	110			Run: SUB-C94455 12/18/07 15:39
Sample ID: R07110303-008E	Sample Matrix Spike								
Selenium	0.047	mg/L	0.0010	94	85	115			Run: SUB-C94455 12/18/07 16:19
Sample ID: R07110303-008E	Sample Matrix Spike Duplicate								
Selenium	0.047	mg/L	0.0010	93	85	115	1.1	10	Run: SUB-C94455 12/18/07 16:21
Method: A3114 B							Batch: C_SEIV3114-071220		
Sample ID: MBLK	Method Blank								
Selenium-IV	0.0004	mg/L	0.0002						Run: SUB-C94561 12/20/07 11:19
Sample ID: 288-7-2	Laboratory Control Sample								
Selenium-IV	0.050	mg/L	0.0010	99	90	110			Run: SUB-C94561 12/20/07 11:21
Sample ID: R07110303-008E	Sample Matrix Spike								
Selenium-IV	0.050	mg/L	0.0010	101	85	115			Run: SUB-C94561 12/20/07 11:40
Sample ID: R07110303-008E	Sample Matrix Spike Duplicate								
Selenium-IV	0.050	mg/L	0.0010	101	85	115	0.4	10	Run: SUB-C94561 12/20/07 11:42
Method: A4500-H B							Batch: 071202_1_PH-W		
Sample ID: LCS_pH-1_071202	Laboratory Control Sample								
pH	6.86	s.u.	0.010	100	98.55	101.45			Run: PH_COND2-R_071202A 12/02/07 13:42
Sample ID: R07110302-003ADUP	Sample Duplicate								
pH	6.47	s.u.	0.010				0.9	1.25	Run: PH_COND2-R_071202A 12/02/07 13:46

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2007-12-04_2_NH3_01		
Sample ID: MBLK-1 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.02						
						Run: TECHAA2-R_071104A			12/04/07 15:47
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.28	mg/L	0.10	112	90	110			S
						Run: TECHAA2-R_071104A			12/04/07 15:50
Sample ID: LFB-5 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	106	90	110			
						Run: TECHAA2-R_071104A			12/04/07 15:51
Sample ID: R07110302-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 5.6	mg/L	0.21	89	80	120			
						Run: TECHAA2-R_071104A			12/04/07 16:04
Sample ID: R07110332-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.23	mg/L	0.10	93	80	120			
						Run: TECHAA2-R_071104A			12/04/07 16:23
Method: D5072-92							Batch: C_R93647		
Sample ID: R07110303-008G Radon 222	Sample Duplicate ND	pCi/L	100				0.0	30	
						Run: SUB-C93647			11/30/07 07:34
Sample ID: MB-R93647 Radon 222	Method Blank ND	pCi/L	100						
						Run: SUB-C93647			11/30/07 07:34
Sample ID: LCS-R93647 Radon 222	Laboratory Control Sample 303	pCi/L	100	100	70	130			
						Run: SUB-C93647			11/30/07 07:34

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R94332		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C94332			12/14/07 08:55		
Silica	1.9	mg/L	0.10	97	85	125			
Boron	1.9	mg/L	0.10	95	85	125			
Iron	1.9	mg/L	0.030	97	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C94332			12/14/07 08:58		
Calcium	24	mg/L	0.50	97	85	125			
Magnesium	24	mg/L	0.50	96	85	125			
Potassium	26	mg/L	0.50	106	85	125			
Sodium	24	mg/L	0.76	98	85	125			
Sample ID: C07120283-001EMS1	Sample Matrix Spike			Run: SUB-C94332			12/14/07 10:21		
Calcium	74.7	mg/L	0.50	83	70	130			
Magnesium	48.7	mg/L	0.50	86	70	130			
Potassium	117	mg/L	0.50	93	70	130			
Sodium	66.3	mg/L	0.76	85	70	130			
Sample ID: C07120283-001EMSD1	Sample Matrix Spike Duplicate			Run: SUB-C94332			12/14/07 10:24		
Calcium	74.9	mg/L	0.50	83	70	130	0.3	20	
Magnesium	49.7	mg/L	0.50	88	70	130	2.0	20	
Potassium	119	mg/L	0.50	94	70	130	1.5	20	
Sodium	67.7	mg/L	0.76	88	70	130	2.1	20	
Sample ID: C07120582-001BMS	Sample Matrix Spike			Run: SUB-C94332			12/14/07 11:58		
Boron	9.19	mg/L	0.10	91	70	130			
Iron	9.42	mg/L	0.046	92	70	130			
Calcium	456	mg/L	1.0	87	70	130			
Magnesium	453	mg/L	0.50	88	70	130			
Potassium	1130	mg/L	0.50	93	70	130			
Silica	48.9	mg/L	0.20		0	0			A
Sodium	453	mg/L	7.6	88	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07120582-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C94332			12/14/07 12:01		
Boron	9.39	mg/L	0.10	93	70	130	2.2	20	
Iron	9.49	mg/L	0.046	92	70	130	0.7	20	
Calcium	465	mg/L	1.0	89	70	130	1.8	20	
Magnesium	456	mg/L	0.50	88	70	130	0.7	20	
Potassium	1120	mg/L	0.50	93	70	130	0.7	20	
Silica	48.8	mg/L	0.20		70	130	0.3	20	A
Sodium	452	mg/L	7.6	88	70	130	0.3	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17091		
Sample ID: MB-17091	Method Blank								
Mercury	2E-05	mg/L	6E-06						Run: SUB-C93999 12/10/07 20:59
Sample ID: C07120311-007F MS4	Post Digestion Spike								
Mercury	0.025	mg/L	0.0010	101	70	130			Run: SUB-C93999 12/11/07 00:50
Sample ID: C07120311-007F MSD4	Post Digestion Spike Duplicate								
Mercury	0.025	mg/L	0.0010	101	70	130	0.7	20	Run: SUB-C93999 12/11/07 00:56
Method: E200.8							Batch: C_17098		
Sample ID: MB-17098	Method Blank								
Uranium	ND	mg/L	2E-05						Run: SUB-C94180 12/13/07 01:04
Sample ID: LCS1-17098	Laboratory Control Sample								
Uranium	0.0497	mg/L	0.00030	95	80	120			Run: SUB-C94180 12/13/07 01:08
Sample ID: C07111232-004BMS4	Post Digestion Spike								
Uranium	0.0285	mg/L	0.00030	97	70	130			Run: SUB-C94180 12/13/07 02:23
Sample ID: C07111232-004BMSD4	Post Digestion Spike Duplicate								
Uranium	0.0286	mg/L	0.00030	97	70	130	0.2	20	Run: SUB-C94180 12/13/07 02:27
Method: E200.8							Batch: C_17122		
Sample ID: MB-17122	Method Blank								
Uranium	5E-05	mg/L							Run: SUB-C94238 12/13/07 16:21
Sample ID: LCS1-17122	Laboratory Control Sample								
Uranium	0.0527	mg/L	0.00030	100	80	120			Run: SUB-C94238 12/13/07 20:16
Sample ID: R07110302-004K	Post Digestion Spike								
Uranium	0.0511	mg/L	0.00030	102	70	130			Run: SUB-C94238 12/13/07 21:16
Sample ID: R07110302-004K	Post Digestion Spike Duplicate								
Uranium	0.0518	mg/L	0.00030	103	70	130	1.3	20	Run: SUB-C94238 12/13/07 21:23

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93947		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C93947			12/07/07 11:38		
Aluminum	0.0492	mg/L	0.0010	98	85	115			
Arsenic	0.0514	mg/L	0.0010	103	85	115			
Barium	0.0501	mg/L	0.0010	100	85	115			
Cadmium	0.0497	mg/L	0.0010	99	85	115			
Chromium	0.0508	mg/L	0.0010	101	85	115			
Copper	0.0519	mg/L	0.0010	104	85	115			
Lead	0.0506	mg/L	0.0010	101	85	115			
Manganese	0.0505	mg/L	0.0010	100	85	115			
Mercury	0.00520	mg/L	0.0010	104	85	115			
Molybdenum	0.0495	mg/L	0.0010	99	85	115			
Nickel	0.0514	mg/L	0.0010	103	85	115			
Silver	0.0195	mg/L	0.0010	98	85	115			
Thorium 232	0.0501	mg/L	0.0010	100	85	115			
Uranium	0.0498	mg/L	0.00030	100	85	115			
Vanadium	0.0512	mg/L	0.0010	102	85	115			
Zinc	0.0537	mg/L	0.0010	107	85	115			
Sample ID: LRB	Method Blank			Run: SUB-C93947			12/07/07 13:13		
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	6E-05	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	0.0004	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	4E-05	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: R07110303-004C	Post Digestion Spike			Run: SUB-C93947			12/07/07 17:52		
Aluminum	0.499	mg/L	0.10	100	70	130			
Arsenic	0.517	mg/L	0.0010	103	70	130			
Barium	0.540	mg/L	0.10	103	70	130			
Cadmium	0.506	mg/L	0.010	101	70	130			
Chromium	0.496	mg/L	0.050	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R93947		
Sample ID: R07110303-004C	Post Digestion Spike			Run: SUB-C93947			12/07/07 17:52		
Copper	0.496	mg/L	0.010	98	70	130			
Lead	0.513	mg/L	0.050	103	70	130			
Manganese	2.98	mg/L	0.010		70	130			A
Mercury	0.0527	mg/L	0.0010	105	70	130			
Molybdenum	0.545	mg/L	0.10	109	70	130			
Nickel	0.502	mg/L	0.050	97	70	130			
Silver	0.171	mg/L	0.010	85	70	130			
Thorium 232	0.532	mg/L	0.0010	106	70	130			
Uranium	0.569	mg/L	0.00030	105	70	130			
Vanadium	0.510	mg/L	0.10	102	70	130			
Zinc	0.498	mg/L	0.010	96	70	130			
Sample ID: R07110303-004C	Post Digestion Spike Duplicate			Run: SUB-C93947			12/07/07 17:59		
Aluminum	0.488	mg/L	0.10	98	70	130	2.3	20	
Arsenic	0.509	mg/L	0.0010	102	70	130	1.6	20	
Barium	0.526	mg/L	0.10	100	70	130	2.6	20	
Cadmium	0.496	mg/L	0.010	99	70	130	2.1	20	
Chromium	0.491	mg/L	0.050	97	70	130	0.9	20	
Copper	0.487	mg/L	0.010	96	70	130	1.8	20	
Lead	0.511	mg/L	0.050	102	70	130	0.2	20	
Manganese	2.99	mg/L	0.010		70	130	0.5	20	A
Mercury	0.0537	mg/L	0.0010	107	70	130	1.9	20	
Molybdenum	0.532	mg/L	0.10	106	70	130	2.4	20	
Nickel	0.489	mg/L	0.050	95	70	130	2.7	20	
Silver	0.174	mg/L	0.010	87	70	130	1.9	20	
Thorium 232	0.530	mg/L	0.0010	106	70	130	0.4	20	
Uranium	0.567	mg/L	0.00030	105	70	130	0.4	20	
Vanadium	0.507	mg/L	0.10	101	70	130	0.6	20	
Zinc	0.494	mg/L	0.010	95	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R32405		
Sample ID: LFB0711284127-3	Laboratory Fortified Blank					Run: DIONEX_071128A	11/28/07 21:08		
Chloride	4.57	mg/L	0.50	91	90	110			
Fluoride	1.91	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N	2.31	mg/L	0.10	92	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: LFB0711284127-4	Laboratory Fortified Blank					Run: DIONEX_071128A	11/28/07 21:24		
Chloride	4.86	mg/L	0.50	97	90	110			
Fluoride	2.04	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.35	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N	2.43	mg/L	0.10	97	90	110			
Sulfate	14.2	mg/L	1.0	94	90	110			
Sample ID: R07110302-002AMS	Sample Matrix Spike					Run: DIONEX_071128A	11/29/07 01:07		
Chloride	266	mg/L	2.0	98	80	120			
Fluoride	123	mg/L	3.2	109	80	120			
Nitrogen, Nitrate as N	128	mg/L	0.84	102	80	120			
Nitrogen, Nitrite as N	132	mg/L	1.1	106	80	120			
Sulfate	6060	mg/L	36		80	120			A
Sample ID: R07110302-002AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071128A	11/29/07 01:23		
Chloride	248	mg/L	2.0	90	80	120	7.0	10	
Fluoride	115	mg/L	3.2	102	80	120	6.2	10	
Nitrogen, Nitrate as N	123	mg/L	0.84	98	80	120	4.0	10	
Nitrogen, Nitrite as N	123	mg/L	1.1	99	80	120	7.0	10	
Sulfate	6160	mg/L	36		80	120	1.6	10	A
Sample ID: R07110303-003AMS	Sample Matrix Spike					Run: DIONEX_071128A	11/29/07 04:34		
Chloride	295	mg/L	2.0	93	80	120			
Fluoride	103	mg/L	3.2	99	80	120			
Nitrogen, Nitrate as N	119	mg/L	0.84	95	80	120			
Nitrogen, Nitrite as N	123	mg/L	1.1	98	80	120			
Sulfate	4180	mg/L	36		80	120			A
Sample ID: R07110303-003AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_071128A	11/29/07 04:50		
Chloride	291	mg/L	2.0	92	80	120	1.4	10	
Fluoride	101	mg/L	3.2	98	80	120	1.5	10	
Nitrogen, Nitrate as N	121	mg/L	0.84	96	80	120	1.3	10	
Nitrogen, Nitrite as N	120	mg/L	1.1	96	80	120	2.3	10	
Sulfate	4150	mg/L	36		80	120	0.9	10	A

Qualifiers:

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ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R32405		
Sample ID: R07110303-007AMS	Sample Matrix Spike			Run: DIONEX_071128A			11/29/07 07:45		
Chloride	299	mg/L	2.0	95	80	120			
Fluoride	97.8	mg/L	3.2	94	80	120			
Nitrogen, Nitrate as N	123	mg/L	0.84	98	80	120			
Nitrogen, Nitrite as N	123	mg/L	1.1	98	80	120			
Sulfate	4250	mg/L	36		80	120			A
Sample ID: R07110303-007AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071128A			11/29/07 08:01		
Chloride	304	mg/L	2.0	98	80	120	1.8	10	
Fluoride	97.9	mg/L	3.2	94	80	120	0.1	10	
Nitrogen, Nitrate as N	120	mg/L	0.84	96	80	120	2.0	10	
Nitrogen, Nitrite as N	122	mg/L	1.1	97	80	120	0.9	10	
Sulfate	4240	mg/L	36		80	120	0.2	10	A
Method: E300.0							Batch: R32437		
Sample ID: LFB0711291936-3	Laboratory Fortified Blank			Run: DIONEX_071129A			11/29/07 20:57		
Chloride	4.94	mg/L	0.50	99	90	110			
Sample ID: LFB0711291936-4	Laboratory Fortified Blank			Run: DIONEX_071129A			11/29/07 21:13		
Chloride	4.87	mg/L	0.50	97	90	110			
Sample ID: R07110265-001BMS	Sample Matrix Spike			Run: DIONEX_071129A			11/30/07 00:56		
Chloride	32.5	mg/L	0.50	89	80	120			
Sample ID: R07110265-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_071129A			11/30/07 01:12		
Chloride	32.9	mg/L	0.50	90	80	120	1.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0369		
Sample ID: MB-GrAB-0369	Method Blank								
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0369	Laboratory Control Sample								
Gross Alpha	300	pCi/L	1.0	104	70	130			
Sample ID: Cs137-GrAB-0369	Laboratory Control Sample								
Gross Beta	90	pCi/L	2.0	96	70	130			
Sample ID: R07110303-001H	Sample Matrix Spike								
Gross Alpha	560	pCi/L	1.0	68	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the low response is considered to be matrix related. The batch is approved.									
Sample ID: R07110303-001H	Sample Matrix Spike Duplicate								
Gross Alpha	530	pCi/L	1.0	64	70	130	5.2	13.2	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the low response is considered to be matrix related. The batch is approved.									
Sample ID: C07111231-001HMS	Sample Matrix Spike								
Gross Beta	280	pCi/L	2.0	85	70	130			
Sample ID: C07111231-001HMSD	Sample Matrix Spike Duplicate								
Gross Beta	280	pCi/L	2.0	85	70	130	0.2	15.9	
Method: E901.1							Batch: C_R94634		
Sample ID: LCS-R94634	Laboratory Control Sample								
Cesium 137	1180	pCi/L	20	84	70	130			
Potassium 40	7170	pCi/L	20	107	70	130			
Sample ID: MB-R94634	Method Blank								
Gross Gamma	ND	pCi/L	20						
Sample ID: C07110896-005ADUP	Sample Duplicate								
Gross Gamma		pCi/Filter	20				0.0	30	
Sample ID: R07110303-008H	Sample Duplicate								
Gross Gamma	1200	pCi/L	20				10	30	
Sample ID: C07121021-009ADUP	Sample Duplicate								
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_17098		
Sample ID: C07111215-001BMS Radium 226	Sample Matrix Spike 57	pCi/L	0.20	94	70	130			12/17/07 18:37
									Run: SUB-C94420
Sample ID: C07111215-001BMSD Radium 226	Sample Matrix Spike Duplicate 60	pCi/L	0.20	97	70	130	5.3	29.2	12/17/07 18:37
									Run: SUB-C94420
Sample ID: MB-17098 Radium 226	Method Blank ND	pCi/L	0.2						12/18/07 10:09
									Run: SUB-C94420
Sample ID: LCS-17098 Radium 226	Laboratory Control Sample 12	pCi/L	0.20	99	70	130			12/18/07 10:09
									Run: SUB-C94420
Method: E903.0							Batch: C_17122		
Sample ID: C07111001-001AMS Radium 226	Sample Matrix Spike 0.00013	uCi/kg	2.0E-07	79	70	130			12/19/07 11:19
									Run: SUB-C94513
Sample ID: C07111001-001AMSD Radium 226	Sample Matrix Spike Duplicate 0.00013	uCi/kg	2.0E-07	90	70	130	5.5	23.3	12/19/07 11:19
									Run: SUB-C94513
Sample ID: MB-17122 Radium 226	Method Blank ND	pCi/L	0.004						12/19/07 12:26
									Run: SUB-C94513
Sample ID: LCS-17122 Radium 226	Laboratory Control Sample 13	pCi/L	0.20	103	70	130			12/19/07 12:26
									Run: SUB-C94513
Method: E903.0							Batch: C_RA226-2483		
Sample ID: C07120239-006CMS Radium 226	Sample Matrix Spike 990	pCi/L	0.20	-46	70	130			12/17/07 13:42
									S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.									
Sample ID: C07120239-006CMSD Radium 226	Sample Matrix Spike Duplicate 1000	pCi/L	0.20	198	70	130	5.0	12.7	12/17/07 13:42
									S
Sample ID: MB-RA226-2483 Radium 226	Method Blank ND	pCi/L	0.2						12/17/07 13:42
									Run: SUB-C94364
Sample ID: LCS-RA226-2483 Radium 226	Laboratory Control Sample 13	pCi/L	0.20	101	70	130			12/17/07 13:42
									Run: SUB-C94364

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2490		
Sample ID: R07110303-007H Radium 226	Sample Matrix Spike 19	pCi/L	0.20	86	70	130			12/17/07 16:18
									Run: SUB-C94149
Sample ID: R07110303-007H Radium 226	Sample Matrix Spike Duplicate 17	pCi/L	0.20	77	70	130	12	29.9	12/17/07 16:18
									Run: SUB-C94149
Sample ID: MB-RA226-2490 Radium 226	Method Blank ND	pCi/L	0.2						12/17/07 16:18
									Run: SUB-C94149
Sample ID: LCS-RA226-2490 Radium 226	Laboratory Control Sample 12	pCi/L	0.20	96	70	130			12/17/07 17:26
Method: E907.0							Batch: C_17098		
Sample ID: C07120128-002AMS Thorium 230	Sample Matrix Spike 54.2	pCi/Filter	0.20	97	70	130			12/11/07 14:35
									Run: SUB-C94632
Sample ID: C07120128-002AMSD Thorium 230	Sample Matrix Spike Duplicate 54.8	pCi/Filter	0.20	98	70	130	1.0	30	12/11/07 14:35
									Run: SUB-C94632
Sample ID: LCS-17098 Thorium 230	Laboratory Control Sample 61.3	pCi/L	0.21	107	70	130			12/11/07 14:35
									Run: SUB-C94632
Sample ID: MB-17098 Thorium 230	Method Blank ND	pCi/L	0.2						12/11/07 14:35
Method: E907.0							Batch: C_17122		
Sample ID: C07120387-002AMS Thorium 230	Sample Matrix Spike 51.5	pCi/Filter	0.20	92	70	130			12/12/07 16:10
									Run: SUB-C94647
Sample ID: C07120387-002AMSD Thorium 230	Sample Matrix Spike Duplicate 55.3	pCi/Filter	0.20	100	70	130	7.1	30	12/12/07 16:10
									Run: SUB-C94647
Sample ID: LCS-17122 Thorium 230	Laboratory Control Sample 52.8	pCi/Filter	0.20	94	70	130			12/12/07 16:10
									Run: SUB-C94647
Sample ID: MB-17122 Thorium 230	Method Blank ND	pCi/Filter	0.004						12/12/07 16:10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R94214		
Sample ID: LCS-R94214 Thorium 230	Laboratory Control Sample 6.00 pCi/L		0.20	102	70	130			12/10/07 14:00
Run: SUB-C94214									
Sample ID: R07110303-001H Thorium 230	Sample Matrix Spike 19.8 pCi/L		0.20	102	70	130			12/10/07 14:00
Run: SUB-C94214									
Sample ID: R07110303-001H Thorium 230	Sample Matrix Spike Duplicate 16.2 pCi/L		0.20	83	70	130	20	30	12/10/07 14:00
Run: SUB-C94214									
Sample ID: MB-R94214 Thorium 230	Method Blank ND pCi/L		0.2						12/10/07 14:00
Run: SUB-C94214									
Method: E907.0							Batch: C_R94903		
Sample ID: LCS-R94903 Thorium 230	Laboratory Control Sample 5.00 pCi/L		0.20	85	70	130			12/20/07 14:15
Run: SUB-C94903									
Sample ID: C07111264-007AMS Thorium 230	Sample Matrix Spike 18.9 pCi/L		0.20	97	70	130			12/20/07 14:15
Run: SUB-C94903									
Sample ID: C07111264-007AMSD Thorium 230	Sample Matrix Spike Duplicate 18.9 pCi/L		0.20	97	70	130	0.0	30	12/20/07 14:15
Run: SUB-C94903									
Sample ID: MB-R94903 Thorium 230	Method Blank ND pCi/L		0.2						12/20/07 14:15
Run: SUB-C94903									
Method: E909.0M							Batch: C_17098		
Sample ID: R07110303-005I Lead 210	Sample Matrix Spike 710 pCi/L		1.0	89	70	130			12/12/07 07:00
Run: SUB-C94353									
Sample ID: R07110303-005I Lead 210	Sample Matrix Spike Duplicate 620 pCi/L		1.0	77	70	130	14	30	12/12/07 07:00
Run: SUB-C94353									
Sample ID: MB-R94353 Lead 210	Method Blank ND pCi/L		1						12/12/07 07:00
Run: SUB-C94353									
Sample ID: LCS-R94353 Lead 210	Laboratory Control Sample 95 pCi/L		1.0	118	70	130			12/12/07 07:00
Run: SUB-C94353									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 02/04/08
 Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_17122		
Sample ID: R07110302-001K	Sample Matrix Spike				Run: SUB-C94571			12/13/07 08:00	
Lead 210	790	pCi/L	1.0	99	70	130			
Sample ID: R07110302-001K	Sample Matrix Spike Duplicate				Run: SUB-C94571			12/13/07 08:00	
Lead 210	780	pCi/L	1.0	98	70	130	1.5	30	
Method: E909.0M							Batch: C_R94265		
Sample ID: C07111231-004HMS	Sample Matrix Spike				Run: SUB-C94265			12/10/07 07:15	
Lead 210	470	pCi/L	1.0	116	70	130			
Sample ID: C07111231-004HMSD	Sample Matrix Spike Duplicate				Run: SUB-C94265			12/10/07 07:15	
Lead 210	420	pCi/L	1.0	104	70	130	11	30	
Sample ID: MB-R94265	Method Blank				Run: SUB-C94265			12/10/07 07:15	
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R94265	Laboratory Control Sample				Run: SUB-C94265			12/10/07 07:15	
Lead 210	88	pCi/L	1.0	110	70	130			
Method: RMO-3008							Batch: C_17098		
Sample ID: R07110303-005I	Sample Matrix Spike				Run: SUB-C94443			12/12/07 12:00	
Polonium 210	350	pCi/L	1.0	79	70	130			
Sample ID: R07110303-005I	Sample Matrix Spike Duplicate				Run: SUB-C94443			12/12/07 12:00	
Polonium 210	370	pCi/L	1.0	83	70	130	5.2	30	
Sample ID: LCS-17098	Laboratory Control Sample				Run: SUB-C94443			12/12/07 12:00	
Polonium 210	19	pCi/L	1.1	83	70	130			
Sample ID: MB-17098	Method Blank				Run: SUB-C94443			12/12/07 12:00	
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07110303

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_17122		
Sample ID: R07110302-004K Polonium 210	Sample Matrix Spike 400	pCi/L	1.0	90	70	130			12/18/07 12:00
Sample ID: R07110302-004K Polonium 210	Sample Matrix Spike Duplicate 330	pCi/L	1.0	73	70	130	20	30	12/18/07 12:00
Sample ID: LCS-17122 Polonium 210	Laboratory Control Sample 18	pCi/L	1.0	80	70	130			12/18/07 12:00
Sample ID: MB-17122 Polonium 210	Method Blank ND	pCi/L	1						12/18/07 12:00
Method: RMO-3008							Batch: C_R94217		
Sample ID: C07111231-008HMS Polonium 210	Sample Matrix Spike 170	pCi/L	1.0	74	70	130			12/10/07 12:00
Sample ID: C07111231-008HMSD Polonium 210	Sample Matrix Spike Duplicate 170	pCi/L	1.0	76	70	130	2.4	30	12/10/07 12:00
Sample ID: LCS-R94217 Polonium 210	Laboratory Control Sample 21	pCi/L	1.0	92	70	130			12/10/07 12:00
Sample ID: MB-R94217 Polonium 210	Method Blank ND	pCi/L	1						12/10/07 12:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, FWS, Permit, Etc. Dewbury Byrdak		Sample Origin State: <u> </u>	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Cory Foreman		Email: <u> </u>	Sampler: (Please Print) Cory Foreman Eric Krentz
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - EI must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MWTP <input type="checkbox"/> State: <u> </u> <input type="checkbox"/> Other: <u> </u>		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <u> </u> <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	ANALYSIS REQUESTED	
1 Dew Burd GW 635		11/27/07	8:25	As per Quote	
2 Dew Burd GW 676		11/27/07	12:20	X	
3 Dew Burd GW 678		11/27/07	13:40	X	
4 Dew Burd GW 677		11/27/07	15:20	X	
5 Dew Burd GW 08		11/27/07	16:30	X	
6 Dew Burd GW 08-2		11/27/07	16:40	X	
7 Dew Burd GW 175		11/27/07	17:34	X	
8 Dew Burd GW 175		11/27/07	17:34	X	
9 Dew Burd GW 175		11/27/07	17:34	X	
10					
Requester Signature: Eric Krentz		Date/Time: 11/28/07 08:10	Signature: ADL	Received by Laboratory: Eric Krentz	Date/Time: 11-27-07 8:10
Requester Signature: Eric Krentz		Date/Time: 11/28/07 08:10	Signature: ADL	Received by Laboratory: Eric Krentz	Date/Time: 11-27-07 8:10

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be sub-contracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

May 23, 2011

RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R08010296 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. Rapid City SD received the following 2 samples for RESPEC Inc on 1/31/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08010296-001	DewBurd GW680	01/30/08 13:50	01/31/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08010296-002	DewBurd GW681	01/30/08 15:40	01/31/08	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2011.05.23 14:43:25 -06:00



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08010296

Revised Date: 05/23/11

Report Date: 02/26/08

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Collection Date: 01/30/08 13:50

Lab ID: R08010296-001

Date Received: 01/31/08

Client Sample ID: DewBurd GW680

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	258	mg/L		5		1	A2320 B	02/06/08 12:04/sn
Carbonate as CO3	ND	mg/L				5	A2320 B	02/06/08 12:04/sn
Bicarbonate as HCO3	315	mg/L				5	A2320 B	02/06/08 12:04/sn
Calcium	343	mg/L				0.5	E200.7	02/14/08 19:21/eli-c
Chloride	15	mg/L				1	E300.0	01/31/08 20:32/sn
Fluoride	0.3	mg/L				0.1	E300.0	01/31/08 20:32/sn
Magnesium	113	mg/L				0.5	E200.7	02/14/08 19:21/eli-c
Nitrogen, Ammonia as N	0.2	mg/L				0.1	A4500-NH3 G	02/04/08 16:33/sn
Nitrogen, Nitrate as N	ND	mg/L				0.1	E300.0	01/31/08 20:32/sn
Nitrogen, Nitrite as N	ND	mg/L				0.1	E300.0	01/31/08 20:32/sn
Potassium	20.7	mg/L				0.5	E200.7	02/14/08 19:21/eli-c
Silica	8.9	mg/L				0.5	E200.7	02/14/08 19:21/eli-c
Sodium	148	mg/L	D			0.8	E200.7	02/14/08 19:21/eli-c
Sulfate	1420	mg/L	D			3	E300.0	01/31/08 20:16/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2630	umhos/cm				5.0	A2510 B	02/01/08 14:21/jmh
Oxidation-Reduction Potential	0	mV					A2580 B	01/31/08 00:00/sn
pH	7.26	s.u.				0.01	A4500-H B	02/01/08 14:41/jmh
Sodium Adsorption Ratio (SAR)	1.8	unitless				0.10	Calculation	02/25/08 15:17/ADM
Solids, Total Dissolved TDS @ 180 C	2400	mg/L				5	A2540 C	01/31/08 14:50/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L				0.1	E200.8	02/12/08 23:57/eli-c
Arsenic	0.026	mg/L				0.001	E200.8	02/12/08 23:57/eli-c
Barium	ND	mg/L				0.1	E200.8	02/12/08 23:57/eli-c
Boron	0.1	mg/L				0.1	E200.7	02/14/08 19:21/eli-c
Cadmium	ND	mg/L				0.005	E200.8	02/12/08 23:57/eli-c
Chromium	ND	mg/L				0.05	E200.8	02/12/08 23:57/eli-c
Copper	ND	mg/L				0.01	E200.8	02/12/08 23:57/eli-c
Iron	0.43	mg/L				0.03	E200.7	02/14/08 19:21/eli-c
Lead	ND	mg/L				0.001	E200.8	02/12/08 23:57/eli-c
Manganese	0.43	mg/L				0.01	E200.8	02/12/08 23:57/eli-c
Mercury	ND	mg/L				0.001	E200.8	02/12/08 23:57/eli-c
Molybdenum	ND	mg/L				0.1	E200.8	02/12/08 23:57/eli-c
Nickel	ND	mg/L				0.05	E200.8	02/12/08 23:57/eli-c
Selenium	ND	mg/L				0.005	A3114 B	02/05/08 17:03/eli-c
Silver	ND	mg/L				0.005	E200.8	02/12/08 23:57/eli-c
Thorium 232	ND	mg/L				0.005	E200.8	02/12/08 23:57/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Collection Date: 01/30/08 13:50

Lab ID: R08010296-001

Date Received: 01/31/08

Client Sample ID: DewBurd GW680

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.172	mg/L		0.0003		1	E200.8	02/12/08 23:57/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/12/08 23:57/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/12/08 23:57/eli-c
METALS - SUSPENDED								
Uranium	0.0008	mg/L		0.0003		1	E200.8	02/14/08 03:34/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.001		1	E200.8	02/12/08 14:13/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/05/08 15:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/05/08 00:00/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4090	pCi/L		1.0		1	E900.0	02/13/08 08:21/eli-c
Gross Alpha precision (±)	19.7	pCi/L				1	E900.0	02/13/08 08:21/eli-c
Gross Beta	1330	pCi/L		2.0		1	E900.0	02/13/08 08:21/eli-c
Gross Beta precision (±)	16.3	pCi/L				1	E900.0	02/13/08 08:21/eli-c
Lead 210	17	pCi/L		1.0		1	E909.0M	02/06/08 07:30/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/06/08 07:30/eli-c
Polonium 210	1.7	pCi/L		1.0		1	RMO-3008	02/11/08 12:30/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	02/11/08 12:30/eli-c
Radium 226	1180	pCi/L		0.2		1	E903.0	02/10/08 12:04/eli-c
Radium 226 precision (±)	10.6	pCi/L				1	E903.0	02/10/08 12:04/eli-c
Gross Gamma	4700	pCi/L		20		1	E901.1	02/06/08 15:40/eli-c
Gross Gamma precision (±)	110	pCi/L				1	E901.1	02/06/08 15:40/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	02/08/08 09:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	12.7	pCi/L		0.2		1	E903.0	02/13/08 10:01/eli-c
Radium 226 precision (±)	2.7	pCi/L				1	E903.0	02/13/08 10:01/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	02/13/08 12:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	02/13/08 12:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	143000	pCi/L		100		1	D5072-92	02/01/08 16:58/eli-c
Radon 222 precision (±)	670	pCi/L				1	D5072-92	02/01/08 16:58/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Collection Date: 01/30/08 13:50

Lab ID: R08010296-001

Date Received: 01/31/08

Client Sample ID: DewBurd GW680

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		

RADIONUCLIDES - TOTAL

DATA QUALITY

A/C Balance (± 5)	-2.45					1	A1030 E	02/25/08 00:00/lkl
Anions	35.2	meq/L				1	A1030 E	02/25/08 00:00/lkl
Cations	33.5	meq/L				1	A1030 E	02/25/08 00:00/lkl
Solids, Total Dissolved Calculated	2210	mg/L				1	A1030 E	02/25/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.09					1	A1030 E	02/25/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Collection Date: 01/30/08 15:40

Lab ID: R08010296-002

Date Received: 01/31/08

Client Sample ID: DewBurd GW681

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B	02/06/08 12:06/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/06/08 12:06/sn
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B	02/06/08 12:06/sn
Calcium	60.3	mg/L		0.5		1	E200.7	02/14/08 19:25/eli-c
Chloride	13	mg/L		1		1	E300.0	01/31/08 21:02/sn
Fluoride	0.4	mg/L		0.1		1	E300.0	01/31/08 21:02/sn
Magnesium	22.3	mg/L		0.5		1	E200.7	02/14/08 19:25/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/04/08 16:36/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/31/08 21:02/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/31/08 21:02/sn
Potassium	10.3	mg/L		0.5		1	E200.7	02/14/08 19:25/eli-c
Silica	8.1	mg/L		0.5		1	E200.7	02/14/08 19:25/eli-c
Sodium	192	mg/L	D	0.8		1	E200.7	02/14/08 19:25/eli-c
Sulfate	498	mg/L	D	3		50	E300.0	01/31/08 20:47/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1320	umhos/cm		5.0		1	A2510 B	02/01/08 14:22/jmh
Oxidation-Reduction Potential	0	mV				1	A2580 B	01/31/08 00:00/sn
pH	7.98	s.u.		0.01		1	A4500-H B	02/01/08 14:43/jmh
Sodium Adsorption Ratio (SAR)	5.4	unitless		0.10		1	Calculation	02/25/08 15:17/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5		1	A2540 C	01/31/08 14:50/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/13/08 00:04/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	02/13/08 00:04/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/13/08 00:04/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/14/08 19:25/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/13/08 00:04/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/13/08 00:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/13/08 00:04/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/14/08 19:25/eli-c
Lead	0.004	mg/L		0.001		1	E200.8	02/13/08 00:04/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	02/13/08 00:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/13/08 00:04/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/13/08 00:04/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/13/08 00:04/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	02/05/08 17:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/13/08 00:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/13/08 00:04/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Collection Date: 01/30/08 15:40

Lab ID: R08010296-002

Date Received: 01/31/08

Client Sample ID: DewBurd GW681

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0117	mg/L		0.0003		1	E200.8	02/13/08 00:04/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/13/08 00:04/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/13/08 00:04/eli-c
METALS - SUSPENDED								
Uranium	0.0010	mg/L		0.0003		1	E200.8	02/14/08 03:42/eli-c
METALS - TOTAL								
Mercury	ND	mg/L		0.001		1	E200.8	02/12/08 14:20/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/05/08 15:43/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/05/08 00:00/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	656	pCi/L		1.0		1	E900.0	02/13/08 08:21/eli-c
Gross Alpha precision (±)	4.7	pCi/L				1	E900.0	02/13/08 08:21/eli-c
Gross Beta	226	pCi/L		2.0		1	E900.0	02/13/08 08:21/eli-c
Gross Beta precision (±)	4.3	pCi/L				1	E900.0	02/13/08 08:21/eli-c
Lead 210	46	pCi/L		1.0		1	E909.0M	02/06/08 07:30/eli-c
Lead 210 precision (±)	4.1	pCi/L				1	E909.0M	02/06/08 07:30/eli-c
Polonium 210	2.6	pCi/L		1.0		1	RMO-3008	02/11/08 12:30/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	02/11/08 12:30/eli-c
Radium 226	421	pCi/L		0.2		1	E903.0	02/10/08 12:04/eli-c
Radium 226 precision (±)	6.8	pCi/L				1	E903.0	02/10/08 12:04/eli-c
Gross Gamma	13000	pCi/L		20		1	E901.1	02/06/08 15:40/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	02/06/08 15:40/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.7	pCi/L		1.0		1	E909.0M	02/08/08 09:30/eli-c
Lead 210 precision (±)	0.69	pCi/L				1	E909.0M	02/08/08 09:30/eli-c
Polonium 210	1.6	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Polonium 210 precision (±)	0.86	pCi/L				1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	9.9	pCi/L		0.2		1	E903.0	02/13/08 10:01/eli-c
Radium 226 precision (±)	2.4	pCi/L				1	E903.0	02/13/08 10:01/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/13/08 12:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	462000	pCi/L		100		1	D5072-92	02/01/08 16:58/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Collection Date: 01/30/08 15:40

Lab ID: R08010296-002

Date Received: 01/31/08

Client Sample ID: DewBurd GW681

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
RADIONUCLIDES - TOTAL							
Radon 222 precision (±)	1190	pCi/L			1	D5072-92	02/01/08 16:58/eli-c
DATA QUALITY							
A/C Balance (± 5)	-2.72				1	A1030 E	02/25/08 00:00/lkl
Anions	14.2	meq/L			1	A1030 E	02/25/08 00:00/lkl
Cations	13.5	meq/L			1	A1030 E	02/25/08 00:00/lkl
Solids, Total Dissolved Calculated	901	mg/L			1	A1030 E	02/25/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.03				1	A1030 E	02/25/08 00:00/lkl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080206A-ALK-SEL-W		
Sample ID: MBLK1_080206A	Method Blank					Run: PH_COND1-R_080206A			02/06/08 12:00
Alkalinity, Total as CaCO3	ND	mg/L		3					
Sample ID: LCS1_080206A	Laboratory Control Sample					Run: PH_COND1-R_080206A			02/06/08 12:01
Alkalinity, Total as CaCO3	1000	mg/L	5.0	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Batch: 080201_1_COND-PROBE-W		
Sample ID: LCS1-1_080201 Conductivity @ 25 C	Laboratory Control Sample 153	umhos/cm	5.0	102	90	110			02/01/08 14:13
Sample ID: LCS2-1_080201 Conductivity @ 25 C	Laboratory Control Sample 4990	umhos/cm	5.0	100	90	110			02/01/08 14:14
Sample ID: LCS_COND-1_080201 Conductivity @ 25 C	Laboratory Control Sample 1380	umhos/cm	5.0	98	90	110			02/01/08 14:15
Sample ID: MBLK-1_080201 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						02/01/08 14:17
Sample ID: R08010273-001BDUP Conductivity @ 25 C	Sample Duplicate 652	umhos/cm	5.0				0.3	10	02/01/08 14:18

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080131A-SLDS-TDS-W		
Sample ID: MBLK1_080131A	Method Blank					Run: BAL-4-R_080131B			01/31/08 14:46
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_080131A	Laboratory Control Sample					Run: BAL-4-R_080131B			01/31/08 14:47
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	104	90	110			
Sample ID: R08010262-001AMS	Sample Matrix Spike					Run: BAL-4-R_080131B			01/31/08 14:48
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	100	80	120			
Sample ID: R08010262-001AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080131B			01/31/08 14:48
Solids, Total Dissolved TDS @ 180 C	440	mg/L	5.0	103	80	120	1.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: R33347
Sample ID: LCS_013108	Laboratory Control Sample					Run: PH_COND1-R_080131A			01/31/08 00:00
Oxidation-Reduction Potential	480	mV	102	95	105				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV3114-080205		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	0.0002						
						Run: SUB-C96573			02/05/08 15:36
Sample ID: 288-20-3 Selenium-IV	Laboratory Control Sample 0.050	mg/L	0.0010	99	90	110			02/05/08 15:38
						Run: SUB-C96573			02/05/08 15:45
Sample ID: R08010296-001E Selenium-IV	Sample Matrix Spike 0.051	mg/L	0.0010	102	85	115			02/05/08 15:45
						Run: SUB-C96573			02/05/08 15:47
Sample ID: R08010296-001E Selenium-IV	Sample Matrix Spike Duplicate 0.054	mg/L	0.0010	106	85	115	4.4	10	02/05/08 15:47
						Run: SUB-C96573			02/05/08 15:47
Method: A3114 B							Batch: C_R96577		
Sample ID: R08010296-001E Selenium-VI	Sample Matrix Spike 0.0017	mg/L	0.0010	3	85	115			02/05/08 00:00 S
						Run: SUB-C96577			02/05/08 00:00
Sample ID: R08010296-001E Selenium-VI	Sample Matrix Spike Duplicate 0.0025	mg/L	0.0010	4	85	115	39	10	02/05/08 00:00 SR
						Run: SUB-C96577			02/05/08 00:00
Method: A3114 B							Batch: C_SE3114-080205		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	0.0004						
						Run: SUB-C96580			02/05/08 16:36
Sample ID: 288-20-3 Selenium	Laboratory Control Sample 0.055	mg/L	0.0010	110	90	110			02/05/08 16:44
						Run: SUB-C96580			02/05/08 16:44
Sample ID: R08010296-001E Selenium	Sample Matrix Spike 0.050	mg/L	0.0010	99	85	115			02/05/08 17:11
						Run: SUB-C96580			02/05/08 17:11
Sample ID: R08010296-001E Selenium	Sample Matrix Spike Duplicate 0.051	mg/L	0.0010	102	85	115	3.0	10	02/05/08 17:13
						Run: SUB-C96580			02/05/08 17:13

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080201_1_PH-W		
Sample ID: LCS_pH-1_080201	Laboratory Control Sample				Run: PH_COND2-R_080201A		02/01/08 14:37		
pH	6.94	s.u.	0.010	101	98.55	101.45			
Sample ID: R08010280-001ADUP	Sample Duplicate				Run: PH_COND2-R_080201A		02/01/08 14:39		
pH	8.06	s.u.	0.010				0.1	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-02-04_2_NH3_01		
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	106					
					Run: TECHAA2-R_080204A				02/04/08 16:20
					90	110			
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.28	mg/L	0.10	111					
					Run: TECHAA2-R_080204A				02/04/08 16:22
					90	110			S
Sample ID: MBLK-5 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
					Run: TECHAA2-R_080204A				02/04/08 16:23
Sample ID: R08010296-001BDUP Nitrogen, Ammonia as N	Sample Duplicate 0.24	mg/L	0.10				2.9	10	
					Run: TECHAA2-R_080204A				02/04/08 16:34
Sample ID: R08010296-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.30	mg/L	0.10	106					
					Run: TECHAA2-R_080204A				02/04/08 16:37
					80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Report Date: 02/26/08

Work Order: R08010296

Client: RESPEC Inc

Project: Edgemont

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92							Batch: C_R96506		
Sample ID: C08020027-012CDUP	Sample Duplicate					Run: SUB-C96506			02/01/08 16:58
Radon 222	365	pCi/L	100				47	30	R
- The RPD for the Dup is outside of the acceptable range.									
Sample ID: MB-R96506	Method Blank					Run: SUB-C96506			02/01/08 16:58
Radon 222	ND	pCi/L	100						
Sample ID: LCS-R96506	Laboratory Control Sample					Run: SUB-C96506			02/01/08 16:58
Radon 222	317	pCi/L	100	104	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R96996		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C96996			02/14/08 12:48		
Silica	2.0	mg/L	0.10	100	85	125			
Boron	1.9	mg/L	0.10	97	85	125			
Iron	2.0	mg/L	0.030	100	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C96996			02/14/08 12:52		
Calcium	25	mg/L	0.50	102	85	125			
Magnesium	24	mg/L	0.50	97	85	125			
Potassium	24	mg/L	0.50	96	85	125			
Sodium	24	mg/L	0.76	95	85	125			
Sample ID: C08020352-001CMS	Sample Matrix Spike			Run: SUB-C96996			02/14/08 13:40		
Boron	10.2	mg/L	0.13	99	70	130			
Iron	9.56	mg/L	0.087	96	70	130			
Calcium	462	mg/L	0.79	92	70	130			
Magnesium	438	mg/L	0.80	88	70	130			
Potassium	1100	mg/L	0.50	92	70	130			
Silica	33.8	mg/L	0.11	85	70	130			
Sodium	693	mg/L	5.3	91	70	130			
Sample ID: C08020352-001CMSD	Sample Matrix Spike Duplicate			Run: SUB-C96996			02/14/08 13:43		
Boron	10.6	mg/L	0.13	104	70	130	4.3	20	
Iron	9.89	mg/L	0.087	99	70	130	3.4	20	
Calcium	475	mg/L	0.79	95	70	130	2.8	20	
Magnesium	460	mg/L	0.80	92	70	130	5.0	20	
Potassium	1100	mg/L	0.50	92	70	130	0.3	20	
Silica	34.6	mg/L	0.11	93	70	130	2.4	20	
Sodium	697	mg/L	5.3	92	70	130	0.6	20	
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C96996			02/15/08 02:45		
Silica	1.9	mg/L	0.10	97	85	125			
Boron	1.8	mg/L	0.10	91	85	125			
Iron	1.9	mg/L	0.030	95	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C96996			02/15/08 02:48		
Calcium	24	mg/L	0.50	94	85	125			
Magnesium	24	mg/L	0.50	95	85	125			
Potassium	24	mg/L	0.50	97	85	125			
Sodium	23	mg/L	0.76	93	85	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7_8							Batch: C_R96996		
Sample ID: C08011081-001CMS	Sample Matrix Spike			Run: SUB-C96996			02/14/08 15:59		
Boron	103	mg/L	1.3	101	70	130			
Iron	98.9	mg/L	0.87	98	70	130			
Calcium	5700	mg/L	7.9	95	70	130			
Magnesium	4710	mg/L	8.0	93	70	130			
Potassium	11200	mg/L	4.4	93	70	130			
Silica	210	mg/L	1.1	99	70	130			
Sodium	5460	mg/L	53	93	70	130			
Sample ID: C08011081-001CMSD	Sample Matrix Spike Duplicate			Run: SUB-C96996			02/14/08 16:02		
Boron	106	mg/L	1.3	105	70	130	3.7	20	
Iron	101	mg/L	0.87	100	70	130	2.0	20	
Calcium	5810	mg/L	7.9	97	70	130	1.9	20	
Magnesium	4810	mg/L	8.0	95	70	130	2.1	20	
Potassium	11300	mg/L	4.4	94	70	130	0.7	20	
Silica	215	mg/L	1.1	105	70	130	2.7	20	
Sodium	5420	mg/L	53	92	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Report Date: 02/26/08

Work Order: R08010296

Client: RESPEC Inc

Project: Edgemont

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17699		
Sample ID: MB-17699	Method Blank				Run: SUB-C96857		02/12/08 13:32		
Mercury	ND	mg/L	6E-06						
Sample ID: C08020069-001AMS4	Post Digestion Spike				Run: SUB-C96857		02/12/08 16:21		
Mercury	0.00620	mg/L	0.0010	89	70	130			
Sample ID: C08020069-001AMSD4	Post Digestion Spike Duplicate				Run: SUB-C96857		02/12/08 16:28		
Mercury	0.00622	mg/L	0.0010	89	70	130	0.4	20	
Method: E200.8							Batch: C_R96857		
Sample ID: LRB	Method Blank				Run: SUB-C96857		02/12/08 12:31		
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.001	mg/L	3E-05						
Thorium 232	5E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C96857		02/12/08 12:38		
Aluminum	0.0514	mg/L	0.0010	103	85	115			
Arsenic	0.0510	mg/L	0.0010	102	85	115			
Barium	0.0511	mg/L	0.0010	102	85	115			
Cadmium	0.0505	mg/L	0.0010	101	85	115			
Chromium	0.0507	mg/L	0.0010	101	85	115			
Copper	0.0502	mg/L	0.0010	100	85	115			
Lead	0.0505	mg/L	0.0010	101	85	115			
Manganese	0.0505	mg/L	0.0010	101	85	115			
Mercury	0.00512	mg/L	0.0010	102	85	115			
Molybdenum	0.0512	mg/L	0.0010	102	85	115			
Nickel	0.0511	mg/L	0.0010	102	85	115			
Silver	0.0203	mg/L	0.0010	96	85	115			
Thorium 232	0.0503	mg/L	0.0010	101	85	115			
Uranium	0.0504	mg/L	0.00030	101	85	115			
Vanadium	0.0507	mg/L	0.0010	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R96857		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C96857			02/12/08 12:38		
Zinc	0.0520	mg/L	0.0010	104	85	115			
Sample ID: C08020018-001DMS4	Post Digestion Spike			Run: SUB-C96857			02/12/08 13:12		
Aluminum	0.108	mg/L	0.10	95	70	130			
Arsenic	0.0544	mg/L	0.0010	108	70	130			
Barium	0.178	mg/L	0.10	93	70	130			
Cadmium	0.0523	mg/L	0.010	105	70	130			
Chromium	0.0531	mg/L	0.050	102	70	130			
Copper	0.0577	mg/L	0.010	102	70	130			
Lead	0.0541	mg/L	0.050	106	70	130			
Manganese	0.0551	mg/L	0.010	102	70	130			
Mercury	0.00527	mg/L	0.0010	105	70	130			
Molybdenum	0.0561	mg/L	0.10	109	70	130			
Nickel	0.0525	mg/L	0.050	103	70	130			
Silver	0.0181	mg/L	0.010	91	70	130			
Thorium 232	0.0522	mg/L	0.0010	104	70	130			
Uranium	0.0538	mg/L	0.00030	105	70	130			
Vanadium	0.0522	mg/L	0.10	103	70	130			
Zinc	0.103	mg/L	0.010	107	70	130			
Sample ID: C08020018-001DMSD4	Post Digestion Spike Duplicate			Run: SUB-C96857			02/12/08 13:19		
Aluminum	0.114	mg/L	0.10	107	70	130	5.3	20	
Arsenic	0.0534	mg/L	0.0010	105	70	130	2.0	20	
Barium	0.178	mg/L	0.10	94	70	130	0.2	20	
Cadmium	0.0523	mg/L	0.010	105	70	130	0.1	20	
Chromium	0.0524	mg/L	0.050	101	70	130	1.3	20	
Copper	0.0572	mg/L	0.010	101	70	130	0.8	20	
Lead	0.0535	mg/L	0.050	105	70	130	1.2	20	
Manganese	0.0545	mg/L	0.010	101	70	130	1.0	20	
Mercury	0.00528	mg/L	0.0010	106	70	130	0.2	20	
Molybdenum	0.0557	mg/L	0.10	108	70	130	0.0	20	
Nickel	0.0519	mg/L	0.050	101	70	130	1.2	20	
Silver	0.0203	mg/L	0.010	102	70	130	11	20	
Thorium 232	0.0519	mg/L	0.0010	104	70	130	0.5	20	
Uranium	0.0531	mg/L	0.00030	103	70	130	1.3	20	
Vanadium	0.0517	mg/L	0.10	102	70	130	0.0	20	
Zinc	0.100	mg/L	0.010	102	70	130	2.3	20	
Sample ID: C08020114-003BMS4	Post Digestion Spike			Run: SUB-C96857			02/13/08 00:31		
Aluminum	0.0512	mg/L	0.10	100	70	130			
Arsenic	0.0540	mg/L	0.0010	107	70	130			
Barium	0.0822	mg/L	0.10	105	70	130			
Cadmium	0.0531	mg/L	0.010	106	70	130			
Chromium	0.0512	mg/L	0.050	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Report Date: 02/26/08

Client: RESPEC Inc

Work Order: R08010296

Project: Edgemont

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R96857		
Sample ID: C08020114-003BMS4	Post Digestion Spike			Run: SUB-C96857			02/13/08 00:31		
Copper	0.0515	mg/L	0.010	102	70	130			
Lead	0.0543	mg/L	0.050	106	70	130			
Manganese	0.0546	mg/L	0.010	102	70	130			
Mercury	0.00516	mg/L	0.0010	103	70	130			
Molybdenum	0.0567	mg/L	0.10	103	70	130			
Nickel	0.0504	mg/L	0.050	101	70	130			
Silver	0.0172	mg/L	0.010	86	70	130			
Thorium 232	0.0562	mg/L	0.0010	112	70	130			
Uranium	0.160	mg/L	0.00030	104	70	130			
Vanadium	0.0518	mg/L	0.10	103	70	130			
Zinc	0.0882	mg/L	0.010	106	70	130			
Sample ID: C08020114-003BMSD4	Post Digestion Spike Duplicate			Run: SUB-C96857			02/13/08 00:37		
Aluminum	0.0502	mg/L	0.10	98	70	130	0.0	20	
Arsenic	0.0534	mg/L	0.0010	106	70	130	1.2	20	
Barium	0.0820	mg/L	0.10	105	70	130	0.0	20	
Cadmium	0.0527	mg/L	0.010	105	70	130	0.8	20	
Chromium	0.0501	mg/L	0.050	99	70	130	2.3	20	
Copper	0.0513	mg/L	0.010	101	70	130	0.4	20	
Lead	0.0540	mg/L	0.050	105	70	130	0.5	20	
Manganese	0.0539	mg/L	0.010	100	70	130	1.4	20	
Mercury	0.00518	mg/L	0.0010	104	70	130	0.3	20	
Molybdenum	0.0564	mg/L	0.10	103	70	130	0.0	20	
Nickel	0.0502	mg/L	0.050	100	70	130	0.3	20	
Silver	0.0184	mg/L	0.010	92	70	130	6.8	20	
Thorium 232	0.0558	mg/L	0.0010	112	70	130	0.9	20	
Uranium	0.156	mg/L	0.00030	97	70	130	2.2	20	
Vanadium	0.0510	mg/L	0.10	101	70	130	0.0	20	
Zinc	0.0886	mg/L	0.010	107	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17699		
Sample ID: MB-17699	Method Blank								
Mercury	3E-05	mg/L	3E-05						Run: SUB-C96944 02/13/08 17:26
Sample ID: C08020038-001DMS	Sample Matrix Spike								
Mercury	0.0056	mg/L	0.0010	111	70	130			Run: SUB-C96944 02/13/08 18:12
Sample ID: C08020038-001DMSD	Sample Matrix Spike Duplicate								
Mercury	0.0055	mg/L	0.0010	110	70	130	1.0	20	Run: SUB-C96944 02/13/08 18:19
Method: E200.8							Batch: C_R96944		
Sample ID: LRB	Method Blank								
Uranium	ND	mg/L	4E-05						Run: SUB-C96944 02/13/08 15:42
Sample ID: LFB	Laboratory Fortified Blank								
Uranium	0.0475	mg/L	0.00030	95	85	115			Run: SUB-C96944 02/13/08 15:49
Sample ID: LCS1-17696	Laboratory Control Sample								
Uranium	0.0511	mg/L	0.00030	102	80	120			Run: SUB-C96944 02/14/08 03:19
Sample ID: R08010296-002I	Post Digestion Spike								
Uranium	0.0539	mg/L	0.00030	106	70	130			Run: SUB-C96944 02/14/08 03:49
Sample ID: R08010296-002I	Post Digestion Spike Duplicate								
Uranium	0.0539	mg/L	0.00030	106	70	130	0.1	20	Run: SUB-C96944 02/14/08 03:57

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R33354		
Sample ID: LFB0801311244-1	Laboratory Fortified Blank			Run: DIONEX_080131A			01/31/08 18:13		
Chloride	4.84	mg/L	0.50	97	90	110			
Fluoride	2.10	mg/L	0.10	105	90	110			
Nitrogen, Nitrate as N	2.49	mg/L	0.10	100	90	110			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	90	110			
Sulfate	14.4	mg/L	1.0	96	90	110			
Sample ID: LFB0801311244-1	Laboratory Fortified Blank			Run: DIONEX_080131A			01/31/08 18:28		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.98	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: R08010278-0011 MS	Sample Matrix Spike			Run: DIONEX_080131A			01/31/08 18:59		
Chloride	7.66	mg/L	0.50	85	80	120			
Fluoride	2.11	mg/L	0.10	93	80	120			
Nitrogen, Nitrate as N	2.71	mg/L	0.10	95	80	120			
Nitrogen, Nitrite as N	2.56	mg/L	0.10	102	80	120			
Sulfate	60.5	mg/L	1.0	75	80	120			S
Sample ID: R08010278-0011 MSD	Sample Matrix Spike Duplicate			Run: DIONEX_080131A			01/31/08 19:15		
Chloride	7.42	mg/L	0.50	80	80	120	3.2	10	
Fluoride	2.08	mg/L	0.10	91	80	120	1.4	10	
Nitrogen, Nitrate as N	2.71	mg/L	0.10	95	80	120	0.0	10	
Nitrogen, Nitrite as N	2.53	mg/L	0.10	101	80	120	1.2	10	
Sulfate	60.5	mg/L	1.0	75	80	120	0.0	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0394		
Sample ID: MB-GrAB-0394	Method Blank								
Gross Alpha	ND	pCi/L	1						02/12/08 04:24
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0394	Laboratory Control Sample								
Gross Alpha	200	pCi/L	1.0	99	70	130			02/12/08 04:24
Sample ID: Cs137-GrAB-0394	Laboratory Control Sample								
Gross Beta	90	pCi/L	2.0	99	70	130			02/12/08 04:24
Sample ID: C08020114-001AMS	Sample Matrix Spike								
Gross Alpha	300	pCi/L	1.0	101	70	130			02/12/08 04:24
Sample ID: C08020114-001AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	290	pCi/L	1.0	95	70	130	5.1	12.5	02/12/08 04:24
Sample ID: C08020114-001AMS	Sample Matrix Spike								
Gross Beta	110	pCi/L	2.0	96	70	130			02/12/08 04:24
Sample ID: C08020114-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	110	pCi/L	2.0	97	70	130	1.3	15.3	02/12/08 04:24
Sample ID: R08010296-002H	Sample Duplicate								
Gross Alpha	650	pCi/L	1.0				0.7	11.4	02/13/08 08:21
Gross Beta	220	pCi/L	2.0				2.2	13.9	
Sample ID: RB-GrAB-0394	Method Blank								
Gross Alpha	ND	pCi/L	1						02/12/08 04:24
Gross Beta	ND	pCi/L	2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_17696		
Sample ID: R08010296-002H	Sample Duplicate		Run: SUB-C96781				02/06/08 15:40		
Americium 241	ND	pCi/L	20				0.0	30	
Barium 133	ND	pCi/L	20				0.0	30	
Bismuth 212	ND	pCi/L	20				0.0	30	
Bismuth 214	5600	pCi/L	20				20	30	
Cesium 134	ND	pCi/L	20				0.0	30	
Cesium 137	ND	pCi/L	20				0.0	30	
Cobalt 60	ND	pCi/L	20				0.0	30	
Iodine 125	ND	pCi/L	20				0.0	30	
Iodine 131	ND	pCi/L	20				0.0	30	
Lead 212	ND	pCi/L	20				0.0	30	
Lead 214	5200	pCi/L	20				15	30	
Manganese 54	ND	pCi/L	20				0.0	30	
Potassium 40	ND	pCi/L	20				0.0	30	
Radium 223	ND	pCi/L	20				0.0	30	
Radium 224	ND	pCi/L	20				0.0	30	
Thallium 208	ND	pCi/L	20				0.0	30	
Thorium 228	ND	pCi/L	20				0.0	30	
Thorium 234	ND	pCi/L	20				0.0	30	
Zinc 65	ND	pCi/L	20				0.0	30	
Radium 228	ND	pCi/L	20				0.0	30	
Gross Gamma	11000	pCi/L	20				18	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 02/26/08

Project: Edgemont

Work Order: R08010296

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2608		
Sample ID: C08020055-004AMS	Sample Matrix Spike				Run: SUB-C96760				02/10/08 13:30
Radium 226	10	pCi/L	0.20	80	70	130			
Sample ID: C08020055-004AMSD	Sample Matrix Spike Duplicate				Run: SUB-C96760				02/10/08 13:30
Radium 226	11	pCi/L	0.20	89	70	130	11	31.3	
Sample ID: LCS-RA226-2608	Laboratory Control Sample				Run: SUB-C96760				02/10/08 15:03
Radium 226	12	pCi/L	0.20	91	70	130			
Sample ID: MB-RA226-2608	Method Blank				Run: SUB-C96760				02/10/08 15:03
Radium 226	ND	pCi/L	0.2						
Method: E903.0							Batch: C_R96882		
Sample ID: C08020054-003CMS	Sample Matrix Spike				Run: SUB-C96882				02/13/08 11:10
Radium 226	2.5	pCi/L	0.20	70	70	130			
Sample ID: C08020054-003CMSD	Sample Matrix Spike Duplicate				Run: SUB-C96882				02/13/08 11:10
Radium 226	2.7	pCi/L	0.20	81	70	130	7.2	28.8	
Sample ID: LCS-17696	Laboratory Control Sample				Run: SUB-C96882				02/13/08 11:10
Radium 226	52	pCi/L	0.20	83	70	130			
Sample ID: MB-17696	Method Blank				Run: SUB-C96882				02/13/08 11:10
Radium 226	ND	pCi/L	4E-06						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Energy Laboratories Inc.

2821 Plant St
 Rapid City, SD 57702
 (605) 342-1225

CHAIN-OF-CUSTODY RECORD

Page 1 of 1
 31-Jan-08

Subcontractor:

ELI - Casper
 PO Box 3258
 Casper, WY 82602
 TEL: FAX:
 Acct #:

Custody Seal: Y N
 Intacted: Y N
 Signature Match: Y N

Shipped By:

Requested Tests

Shipped By: _____
 Receipt Temp: _____

Subcontractor's Client: RESPEC Inc

Sample ID	Matrix	Collection Date	Bottle Type	200_7_8-W-D	200_7_8-W-SUS	200_7_8-W-T	CVAA-SE-3114-W-D	CVAA-SEIV-3114-W	CVAA-SEVI-3114-W	RAD-G-ALPHABET	RAD-G-GAMMA-W	RAD-PB210-W-D	RAD-PB210-W-SUS	RAD-PO210-W-D	RAD-PO210-W-SUS	RAD-RA226-W-D	RAD-RA226-W-SUS	RAD-RN222-W	RAD-TH150-W-D	RAD-TH150-W-SU
R08010296-001C	Aqueous	01/30/08 01:50 P	500ML-P-F-HNO3	1																
R08010296-001D	Aqueous	01/30/08 01:50 P	500ML-P-NF-HNO3		1															
R08010296-001E	Aqueous	01/30/08 01:50 P	500ML-P-F-HNO3			1														
R08010296-001G	Aqueous	01/30/08 01:50 P	40ML-CG-VDA																	
R08010296-001H	Aqueous	01/30/08 01:50 P	1GAL-CUBE-F-HNO3																	
R08010296-001I	Aqueous	01/30/08 01:50 P	ZIPLOCK		1															
R08010296-002C	Aqueous	01/30/08 03:40 P	500ML-P-F-HNO3	1																
R08010296-002D	Aqueous	01/30/08 03:40 P	500ML-P-NF-HNO3		1															
R08010296-002E	Aqueous	01/30/08 03:40 P	500ML-P-F-HNO3			1														
R08010296-002G	Aqueous	01/30/08 03:40 P	40ML-CG-VDA																	
R08010296-002H	Aqueous	01/30/08 03:40 P	1GAL-CUBE-F-HNO3																	
R08010296-002I	Aqueous	01/30/08 03:40 P	ZIPLOCK		1															

Comments:

QC Level:

Date/Time

Date/Time

Relinquished by:

Received by:

Relinquished by:

Received by:



Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT. Provide as much information as possible.

Company Name: DESPEC		Project Name, PWS, Permit, Etc. PowerTech Dorey Burdock		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: DESPEC		Contact Name: Cori Foreman		Phone/Fax: 605.394.6509	Sampler: (Please Print)
Invoice Address: DESPEC		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - ELL must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	ANALYSIS REQUESTED	
1 Dew Burd GW 680		01/30/08	13:50	SEE ATTACHED Normal Turnaround (TAT) RUSH Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: Both Computers	
2 Dew Burd GW 681		01/30/08	15:40		
3					
4					
5					
6					
7					
8					
9					
10					
Custody Record MUST be Signed		Requisitioned by (print): Erik Kowre Date/Time: 01/30/08		Signature: 	
Requisitioned by (print): Erik Kowre Date/Time: 01/30/08		Received by Laboratory: Steve Hoiland Date/Time: 1-31-08 8:15		Signature: 	
Sample Disposal:		Return to Client:		Lab Disposal:	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

March 13, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08020006 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 2/4/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08020006-001	DewBurd GW679	02/03/08 16:25	02/04/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020006-001
 Client Sample ID: DewBurd GW679

Report Date: 03/13/08
 Collection Date: 02/03/08 16:25
 Date Received: 02/04/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	144	mg/L		5			1	A2320 B	02/06/08 14:11/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	02/06/08 14:11/sn
Bicarbonate as HCO3	176	mg/L		5			1	A2320 B	02/06/08 14:11/sn
Calcium	440	mg/L	D	1			10	E200.7	02/19/08 19:17/eli-c
Chloride	13	mg/L		1			1	E300.0	02/05/08 01:48/sn
Fluoride	0.4	mg/L		0.1			1	E300.0	02/05/08 01:48/sn
Magnesium	100	mg/L		0.5			1	E200.7	02/19/08 22:44/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	02/05/08 11:42/sn
Nitrogen, Nitrate as N	1.3	mg/L		0.1			1	E300.0	02/05/08 01:48/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	02/05/08 01:48/sn
Potassium	11.8	mg/L		0.5			1	E200.7	02/19/08 22:44/eli-c
Silica	12.7	mg/L		0.5			1	E200.7	02/19/08 22:44/eli-c
Sodium	77.6	mg/L	D	0.8			1	E200.7	02/19/08 22:44/eli-c
Sulfate	1420	mg/L	D	3			50	E300.0	02/05/08 01:17/sn
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1970	umhos/cm		5.0			1	A2510 B	02/08/08 15:45/jmh
Oxidation-Reduction Potential	200	mV					1	A2580 B	02/04/08 00:00/sn
pH	7.66	s.u.		0.01			1	A4500-H B	02/09/08 13:58/jmh
Sodium Adsorption Ratio (SAR)	0.87	unitless		0.10			1	Calculation	03/10/08 18:32/sec
Solids, Total Dissolved TDS @ 180 C	2500	mg/L		5			1	A2540 C	02/05/08 14:50/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.7	02/19/08 22:44/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	02/10/08 02:18/eli-c
Barium	ND	mg/L		0.1			1	E200.8	02/10/08 02:18/eli-c
Boron	0.4	mg/L		0.1			1	E200.7	02/19/08 22:44/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	02/10/08 02:18/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	02/10/08 02:18/eli-c
Copper	ND	mg/L		0.01			1	E200.8	02/10/08 02:18/eli-c
Iron	ND	mg/L		0.03			1	E200.7	02/19/08 22:44/eli-c
Lead	ND	mg/L		0.001			1	E200.8	02/10/08 02:18/eli-c
Manganese	0.03	mg/L		0.01			1	E200.8	02/10/08 02:18/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	02/10/08 02:18/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	02/10/08 02:18/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	02/10/08 02:18/eli-c
Selenium	0.013	mg/L		0.005			1	A3114 B	02/08/08 10:40/eli-cs
Silver	ND	mg/L		0.005			1	E200.8	02/10/08 02:18/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Page 1 of 3



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020006-001
 Client Sample ID: DewBurd GW679

Report Date: 03/13/08
 Collection Date: 02/03/08 16:25
 Date Received: 02/04/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	02/10/08 02:18/eli-c
Uranium	0.0139	mg/L		0.0003			1	E200.8	02/10/08 02:18/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	02/10/08 02:18/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	02/10/08 02:18/eli-c
METALS - SUSPENDED									
Uranium	0.0007	mg/L		0.0003			1	E200.8	02/15/08 22:35/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	02/08/08 09:12/eli-c
Selenium-VI	0.012	mg/L		0.001			1	A3114 B	02/08/08 11:01/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	18.4	pCi/L		1.0			1	E900.0	02/14/08 02:25/eli-c
Gross Alpha precision (±)	2.3	pCi/L					1	E900.0	02/14/08 02:25/eli-c
Gross Beta	7.2	pCi/L		2.0			1	E900.0	02/14/08 02:25/eli-c
Gross Beta precision (±)	5.1	pCi/L					1	E900.0	02/14/08 02:25/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	02/07/08 09:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	02/11/08 12:30/eli-c
Radium 226	0.9	pCi/L		0.2			1	E903.0	02/12/08 07:52/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	02/12/08 07:52/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	02/06/08 16:00/eli-c
Gross Gamma	86	pCi/L		20			1	E901.1	02/06/08 15:40/eli-c
Gross Gamma precision (±)	27	pCi/L					1	E901.1	02/06/08 15:40/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	02/19/08 07:00/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	9.0	pCi/L		0.2			1	E903.0	02/24/08 18:05/eli-c
Radium 226 precision (±)	2.0	pCi/L					1	E903.0	02/24/08 18:05/eli-c
Thorium 230	0.4	pCi/L		0.2			1	E907.0	02/19/08 15:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	02/19/08 15:45/eli-c
- Thorium was detected in the associated blank.									
RADIONUCLIDES - TOTAL									
Radon 222	2170	pCi/L		100			1	D5072-92	02/07/08 10:18/eli-c
Radon 222 precision (±)	137	pCi/L					1	D5072-92	02/07/08 10:18/eli-c

TOTAL METALS ANALYSES

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020006-001
 Client Sample ID: DewBurd GW679

Report Date: 03/13/08
 Collection Date: 02/03/08 16:25
 Date Received: 02/04/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	02/12/08 23:37/eli-c
Arsenic	0.007	mg/L		0.001			1	E200.8	02/12/08 23:37/eli-c
Barium	0.2	mg/L		0.1			1	E200.8	02/12/08 23:37/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	02/12/08 23:37/eli-c
Boron	ND	mg/L		0.1			1	E200.7	02/19/08 22:47/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	02/12/08 23:37/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	02/12/08 23:37/eli-c
Copper	0.02	mg/L		0.01			1	E200.8	02/12/08 23:37/eli-c
Iron	14.9	mg/L	D	0.09			10	E200.7	02/19/08 19:20/eli-c
Lead	0.015	mg/L		0.001			1	E200.8	02/12/08 23:37/eli-c
Manganese	0.35	mg/L		0.01			1	E200.8	02/12/08 23:37/eli-c
Mercury	0.00002	mg/L		6.0E-06			1	E200.8	02/12/08 23:37/eli-c
Molybdenum	0.01	mg/L		0.01			1	E200.8	02/12/08 23:37/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	02/12/08 23:37/eli-c
Selenium	0.014	mg/L		0.001			1	E200.8	02/12/08 23:37/eli-c
Silver	ND	mg/L		0.005			1	E200.8	02/12/08 23:37/eli-c
Strontium	7.3	mg/L		0.1			1	E200.8	02/12/08 23:37/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	02/12/08 23:37/eli-c
Uranium	0.0154	mg/L		0.0003			1	E200.8	02/12/08 23:37/eli-c
Zinc	0.06	mg/L		0.01			1	E200.8	02/12/08 23:37/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.37	%					1	A1030 E	03/10/08 18:35/sec
Anions	33.0	meq/L					1	A1030 E	03/10/08 18:35/sec
Cations	33.9	meq/L					1	A1030 E	03/10/08 18:35/sec
Solids, Total Dissolved Calculated	2160	mg/L					1	A1030 E	03/10/08 18:35/sec
TDS Balance (0.80 - 1.20)	1.18	dec. %					1	A1030 E	03/10/08 18:35/sec

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/13/08
Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080206A-ALK-W		
Sample ID: R08020047-006AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 292	mg/L	5.0	106	80	120			Run: PH_COND1-R_080206A 02/06/08 14:58
Sample ID: R08020047-006AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 286	mg/L	5.0	100	80	120	2.1	10	Run: PH_COND1-R_080206A 02/06/08 15:00
Method: A2510 B							Batch: 080208_1_COND-PROBE-W		
Sample ID: LCS1-1_080208 Conductivity @ 25 C	Laboratory Control Sample 156	umhos/cm	5.0	104	90	110			Run: PH_COND2-R_080208A 02/08/08 15:42
Sample ID: LCS2-1_080208 Conductivity @ 25 C	Laboratory Control Sample 4950	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080208A 02/08/08 15:43
Sample ID: LCS_COND-1_080208 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080208A 02/08/08 15:43
Sample ID: MBLK-1_080208 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080208A 02/08/08 15:44
Sample ID: R08020006-001ADUP Conductivity @ 25 C	Sample Duplicate 1950	umhos/cm	5.0				1.0	10	Run: PH_COND2-R_080208A 02/08/08 15:46
Method: A2540 C							Batch: 080205A-SLDS-TDS-W		
Sample ID: MBLK1_080205A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080205A 02/05/08 14:46
Sample ID: LCS1_080205A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	105	90	110			Run: BAL-4-R_080205A 02/05/08 14:46
Sample ID: R08010303-002BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 780	mg/L	5.0	102	80	120			Run: BAL-4-R_080205A 02/05/08 14:48
Sample ID: R08010303-002BMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 770	mg/L	5.0	100	80	120	0.5	10	Run: BAL-4-R_080205A 02/05/08 14:48
Method: A2580 B							Batch: R33453		
Sample ID: LCS_020408 Oxidation-Reduction Potential	Laboratory Control Sample 490	mV		102	95	105			Run: PH_COND1-R_080204A 02/04/08 00:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/13/08
 Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_R96705		
Sample ID: R08020006-001E	Sample Matrix Spike				Run: SUB-C96705			02/08/08 11:01	
Selenium-VI	0.058	mg/L	0.0010	91	85	115			
Sample ID: R08020006-001E	Sample Matrix Spike Duplicate				Run: SUB-C96705			02/08/08 11:01	
Selenium-VI	0.057	mg/L	0.0010	89	85	115	1.8	10	
Method: A3114 B							Batch: C_SE3114-080208		
Sample ID: MBLK	Method Blank				Run: SUB-C96704			02/08/08 09:58	
Selenium	ND	mg/L	0.0004						
Sample ID: 288-20-3	Laboratory Control Sample				Run: SUB-C96704			02/08/08 10:05	
Selenium	0.052	mg/L	0.0010	104	90	110			
Sample ID: R08020006-001E	Sample Matrix Spike				Run: SUB-C96704			02/08/08 10:47	
Selenium	0.064	mg/L	0.0010	103	85	115			
Sample ID: R08020006-001E	Sample Matrix Spike Duplicate				Run: SUB-C96704			02/08/08 10:49	
Selenium	0.062	mg/L	0.0010	99	85	115	3.1	10	
Method: A3114 B							Batch: C_SEIV3114-080208		
Sample ID: MBLK	Method Blank				Run: SUB-C96693			02/08/08 09:08	
Selenium-IV	0.0004	mg/L	0.0002						
Sample ID: 288-20-3	Laboratory Control Sample				Run: SUB-C96693			02/08/08 09:10	
Selenium-IV	0.050	mg/L	0.0010	98	90	110			
Sample ID: R08020006-001E	Sample Matrix Spike				Run: SUB-C96693			02/08/08 09:14	
Selenium-IV	0.051	mg/L	0.0010	101	85	115			
Sample ID: R08020006-001E	Sample Matrix Spike Duplicate				Run: SUB-C96693			02/08/08 09:16	
Selenium-IV	0.051	mg/L	0.0010	101	85	115	0.2	10	
Method: A4500-H B							Batch: 080209_1_PH-W		
Sample ID: LCS_pH-1_080209	Laboratory Control Sample				Run: PH_COND2-R_080209A			02/09/08 13:57	
pH	6.96	s.u.	0.010	101	98.55	101.45			
Sample ID: R08020006-001ADUP	Sample Duplicate				Run: PH_COND2-R_080209A			02/09/08 13:59	
pH	7.68	s.u.	0.010				0.3	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/13/08
Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-02-05_2_NH3_02		
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	94	90	110			
									Run: TECHAA2-R_080205A 02/05/08 11:01
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	93	90	110			
									Run: TECHAA2-R_080205A 02/05/08 11:03
Sample ID: MBLK-5 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
									Run: TECHAA2-R_080205A 02/05/08 11:04
Sample ID: R08010298-001BDUP Nitrogen, Ammonia as N	Sample Duplicate 0.10	mg/L	0.10				17	10	R
									Run: TECHAA2-R_080205A 02/05/08 11:33
Sample ID: R08010298-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	96	80	120			
									Run: TECHAA2-R_080205A 02/05/08 11:35
Method: D5072-92							Batch: C_R96700		
Sample ID: C08020146-002ADUP Radon 222	Sample Duplicate 557	pCi/L	100				9.5	30	
									Run: SUB-C96700 02/07/08 10:18
Sample ID: MB-R96700 Radon 222	Method Blank ND	pCi/L	100						
									Run: SUB-C96700 02/07/08 10:18
Sample ID: LCS-R96700 Radon 222	Laboratory Control Sample 320	pCi/L	100	105	70	130			
									Run: SUB-C96700 02/07/08 10:18
Method: E200.7							Batch: C_17707		
Sample ID: MB-17707 Boron Iron	Method Blank ND ND	mg/L mg/L	0.01 0.009						
									Run: SUB-C97058 02/15/08 14:08
Sample ID: LCS-17707 Boron Iron	Laboratory Control Sample 0.517 0.528	mg/L mg/L	0.10 0.030	103 106	85 85	115 115			
									Run: SUB-C97126 02/19/08 12:52
Sample ID: R08020006-001D Boron Iron	Sample Matrix Spike ND 15.1	mg/L mg/L	0.10 0.030		70 70	130 130			S A
									Run: SUB-C97126 02/19/08 22:51
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: R08020006-001D Boron Iron	Sample Matrix Spike Duplicate ND 16.0	mg/L mg/L	0.10 0.030		70 70	130 130	0.0 5.5	20 20	S A
									Run: SUB-C97126 02/19/08 22:54
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/13/08
Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R97126		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C97126			02/19/08 11:34		
Silica	1.9	mg/L	0.10	97	85	125			
Aluminum	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	94	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C97126			02/19/08 11:37		
Calcium	25	mg/L	0.50	98	85	125			
Magnesium	24	mg/L	0.50	97	85	125			
Potassium	25	mg/L	0.50	100	85	125			
Sodium	25	mg/L	0.76	99	85	125			
Sample ID: C08010814-001CMS	Sample Matrix Spike			Run: SUB-C97126			02/19/08 17:12		
Aluminum	9.43	mg/L	0.10	94	70	130			
Boron	9.59	mg/L	0.10	96	70	130			
Iron	9.16	mg/L	0.046	92	70	130			
Calcium	668	mg/L	1.0	86	70	130			
Magnesium	445	mg/L	0.50	89	70	130			
Potassium	1110	mg/L	0.50	91	70	130			
Silica	11.5	mg/L	0.20		0	0			
Sodium	737	mg/L	7.6	88	70	130			
Sample ID: C08010814-001CMSD	Sample Matrix Spike Duplicate			Run: SUB-C97126			02/19/08 17:15		
Aluminum	9.70	mg/L	0.10	97	70	130	2.8	20	
Boron	10.2	mg/L	0.10	102	70	130	6.3	20	
Iron	9.59	mg/L	0.046	96	70	130	4.6	20	
Calcium	670	mg/L	1.0	87	70	130	0.3	20	
Magnesium	448	mg/L	0.50	90	70	130	0.6	20	
Potassium	1090	mg/L	0.50	89	70	130	2.0	20	
Silica	11.8	mg/L	0.20	96	70	130	2.4	20	
Sodium	723	mg/L	7.6	85	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/13/08
 Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17707		
Sample ID: R08020006-001D	Post Digestion Spike			Run: SUB-C96857			02/12/08 23:43		
Antimony	0.0615	mg/L	0.050	87	70	130			
Arsenic	0.0770	mg/L	0.0010	100	70	130			
Barium	0.300	mg/L	0.10	89	70	130			
Beryllium	0.0580	mg/L	0.010	82	70	130			
Cadmium	0.0696	mg/L	0.010	99	70	130			
Chromium	0.0717	mg/L	0.050	85	70	130			
Copper	0.0850	mg/L	0.010	93	70	130			
Lead	0.0846	mg/L	0.050	100	70	130			
Manganese	0.411	mg/L	0.010		70	130			A
Mercury	0.00552	mg/L	0.0010	79	70	130			
Molybdenum	0.0781	mg/L	0.10	97	70	130			
Nickel	0.0864	mg/L	0.050	91	70	130			
Selenium	0.155	mg/L	0.0010	94	70	130			
Silver	0.0306	mg/L	0.010	76	70	130			
Strontium	7.40	mg/L	0.10		70	130			A
Thallium	0.0703	mg/L	0.10	100	70	130			
Uranium	0.0909	mg/L	0.00030	108	70	130			
Zinc	0.135	mg/L	0.010	106	70	130			

- Matrix spike recoveries outside the acceptance range are considered matrix-related.

Sample ID: R08020006-001D	Post Digestion Spike Duplicate			Run: SUB-C96857			02/12/08 23:50		
Antimony	0.0431	mg/L	0.050	61	70	130	0.0	20	S
Arsenic	0.0799	mg/L	0.0010	104	70	130	3.7	20	
Barium	0.317	mg/L	0.10	113	70	130	5.5	20	
Beryllium	0.0587	mg/L	0.010	83	70	130	1.1	20	
Cadmium	0.0702	mg/L	0.010	100	70	130	1.0	20	
Chromium	0.0733	mg/L	0.050	87	70	130	2.2	20	
Copper	0.0875	mg/L	0.010	96	70	130	2.8	20	
Lead	0.0882	mg/L	0.050	105	70	130	4.2	20	
Manganese	0.426	mg/L	0.010		70	130	3.5	20	A
Mercury	0.00586	mg/L	0.0010	83	70	130	5.9	20	
Molybdenum	0.0788	mg/L	0.10	98	70	130	0.0	20	
Nickel	0.0900	mg/L	0.050	96	70	130	4.0	20	
Selenium	0.163	mg/L	0.0010	99	70	130	5.2	20	
Silver	0.0277	mg/L	0.010	69	70	130	10.0	20	S
Strontium	8.08	mg/L	0.10		70	130	8.8	20	A
Thallium	0.0727	mg/L	0.10	104	70	130	0.0	20	
Uranium	0.0974	mg/L	0.00030	117	70	130	6.9	20	
Zinc	0.137	mg/L	0.010	110	70	130	2.1	20	

- Matrix spike recoveries outside the acceptance range are considered matrix-related.

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/13/08
Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17707		
Sample ID: MB-17707	Method Blank		Run: SUB-C97005			02/14/08 16:01			
Antimony	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	0.0001	mg/L	8E-05						
Beryllium	ND	mg/L	7E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	0.0003	mg/L	0.0003						
Copper	ND	mg/L	8E-05						
Lead	ND	mg/L	0.0001						
Manganese	ND	mg/L	5E-05						
Mercury	5E-05	mg/L	3E-05						
Molybdenum	0.0004	mg/L	0.0002						
Nickel	9E-05	mg/L	6E-05						
Selenium	0.0003	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Strontium	ND	mg/L	7E-05						
Thallium	ND	mg/L	5E-05						
Uranium	ND	mg/L	4E-05						
Sample ID: LCS1-17707	Laboratory Control Sample		Run: SUB-C97005			02/14/08 16:08			
Antimony	0.0195	mg/L	0.050	98	80	120			
Arsenic	0.0197	mg/L	0.0010	99	80	120			
Barium	0.0211	mg/L	0.10	105	80	120			
Beryllium	0.0166	mg/L	0.010	83	80	120			
Cadmium	0.0200	mg/L	0.010	100	80	120			
Chromium	0.0152	mg/L	0.050	74	80	120			S
Copper	0.0206	mg/L	0.010	103	80	120			
Lead	0.0200	mg/L	0.050	100	80	120			
Manganese	0.0166	mg/L	0.010	83	80	120			
Molybdenum	0.0202	mg/L	0.10	99	80	120			
Nickel	0.0210	mg/L	0.050	105	80	120			
Selenium	0.0954	mg/L	0.0010	95	80	120			
Silver	0.0193	mg/L	0.010	97	80	120			
Strontium	0.0102	mg/L	0.10	102	80	120			
Thallium	0.0199	mg/L	0.10	99	80	120			
Uranium	0.0180	mg/L	0.00030	90	80	120			
Sample ID: LCS-17707	Laboratory Control Sample		Run: SUB-C97005			02/14/08 16:16			
Antimony	0.510	mg/L	0.050	102	85	115			
Arsenic	0.515	mg/L	0.0013	103	85	115			
Barium	0.542	mg/L	0.10	108	85	115			
Beryllium	0.548	mg/L	0.010	110	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/13/08
 Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17707		
Sample ID: LCS-17707	Laboratory Control Sample			Run: SUB-C97005			02/14/08 16:16		
Cadmium	0.503	mg/L	0.010	101	85	115			
Chromium	0.548	mg/L	0.050	110	85	115			
Copper	0.522	mg/L	0.010	104	85	115			
Lead	0.514	mg/L	0.050	103	85	115			
Manganese	0.535	mg/L	0.010	107	85	115			
Molybdenum	0.516	mg/L	0.10	103	85	115			
Nickel	0.537	mg/L	0.050	107	85	115			
Selenium	0.493	mg/L	0.0022	99	85	115			
Silver	0.200	mg/L	0.010	100	85	115			
Strontium	0.509	mg/L	0.10	102	85	115			
Thallium	0.517	mg/L	0.10	103	85	115			
Uranium	0.472	mg/L	0.00038	94	85	115			
Method: E200.8							Batch: C_17774		
Sample ID: MB-17774	Method Blank			Run: SUB-C97045			02/15/08 22:25		
Uranium	8E-05	mg/L	4E-05						
Sample ID: LCS1-17774	Laboratory Control Sample			Run: SUB-C97045			02/15/08 22:30		
Uranium	0.0445	mg/L	0.00030	89	80	120			
Sample ID: C08020336-005IMS	Sample Matrix Spike			Run: SUB-C97169			02/21/08 00:10		
Uranium	0.0115	mg/L	0.00030	89	70	130			
Sample ID: C08020336-005IMSD	Sample Matrix Spike Duplicate			Run: SUB-C97169			02/21/08 00:15		
Uranium	0.0113	mg/L	0.00030	87	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/13/08
Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R96757		
Sample ID: LRB	Method Blank		Run: SUB-C96757			02/09/08 10:21			
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.0005	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.0006	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C96757			02/09/08 10:28			
Arsenic	0.0505	mg/L	0.0010	101	85	115			
Barium	0.0517	mg/L	0.0010	103	85	115			
Cadmium	0.0515	mg/L	0.0010	103	85	115			
Chromium	0.0484	mg/L	0.0010	97	85	115			
Copper	0.0487	mg/L	0.0010	97	85	115			
Lead	0.0515	mg/L	0.0010	103	85	115			
Manganese	0.0491	mg/L	0.0010	98	85	115			
Mercury	0.00534	mg/L	0.0010	107	85	115			
Molybdenum	0.0508	mg/L	0.0010	102	85	115			
Nickel	0.0465	mg/L	0.0010	93	85	115			
Silver	0.0199	mg/L	0.0010	97	85	115			
Thorium 232	0.0503	mg/L	0.0010	101	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			
Vanadium	0.0481	mg/L	0.0010	96	85	115			
Zinc	0.0522	mg/L	0.0010	103	85	115			
Sample ID: R08020006-001C	Sample Matrix Spike		Run: SUB-C96757			02/10/08 02:25			
Arsenic	0.0531	mg/L	0.0010	105	70	130			
Barium	0.0686	mg/L	0.10	104	70	130			
Cadmium	0.0462	mg/L	0.010	92	70	130			
Chromium	0.0464	mg/L	0.050	90	70	130			
Copper	0.0495	mg/L	0.010	95	70	130			
Lead	0.0520	mg/L	0.050	104	70	130			
Manganese	0.0751	mg/L	0.010	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/13/08
Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R96757		
Sample ID: R08020006-001C	Sample Matrix Spike			Run: SUB-C96757			02/10/08 02:25		
Mercury	0.00504	mg/L	0.0010	101	70	130			
Molybdenum	0.0646	mg/L	0.10	107	70	130			
Nickel	0.0588	mg/L	0.050	106	70	130			
Silver	0.0145	mg/L	0.010	72	70	130			
Thorium 232	0.0543	mg/L	0.0010	109	70	130			
Uranium	0.0695	mg/L	0.00030	111	70	130			
Vanadium	0.0462	mg/L	0.10	91	70	130			
Zinc	0.0465	mg/L	0.010	86	70	130			
Sample ID: R08020006-001C	Sample Matrix Spike Duplicate			Run: SUB-C96757			02/10/08 02:32		
Arsenic	0.0525	mg/L	0.0010	104	70	130	1.1	20	
Barium	0.0680	mg/L	0.10	103	70	130	0.0	20	
Cadmium	0.0458	mg/L	0.010	91	70	130	1.0	20	
Chromium	0.0462	mg/L	0.050	90	70	130	0.0	20	
Copper	0.0484	mg/L	0.010	93	70	130	2.3	20	
Lead	0.0513	mg/L	0.050	102	70	130	1.5	20	
Manganese	0.0757	mg/L	0.010	96	70	130	0.9	20	
Mercury	0.00510	mg/L	0.0010	102	70	130	1.1	20	
Molybdenum	0.0633	mg/L	0.10	105	70	130	0.0	20	
Nickel	0.0560	mg/L	0.050	101	70	130	4.9	20	
Silver	0.0145	mg/L	0.010	73	70	130	0.3	20	
Thorium 232	0.0537	mg/L	0.0010	107	70	130	1.2	20	
Uranium	0.0677	mg/L	0.00030	108	70	130	2.5	20	
Vanadium	0.0454	mg/L	0.10	90	70	130	0.0	20	
Zinc	0.0453	mg/L	0.010	83	70	130	2.7	20	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/13/08
Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R33367		
Sample ID: LFB0802013903-1	Laboratory Fortified Blank					Run: DIONEX_080204A			02/04/08 18:52
Chloride	4.87	mg/L	0.50	97	90	110			
Fluoride	1.93	mg/L	0.10	97	90	110			
Nitrogen, Nitrate as N	2.45	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0802013903-1	Laboratory Fortified Blank					Run: DIONEX_080204A			02/04/08 19:07
Chloride	4.89	mg/L	0.50	98	90	110			
Fluoride	1.93	mg/L	0.10	97	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.46	mg/L	0.10	98	90	110			
Sulfate	14.9	mg/L	1.0	99	90	110			
Sample ID: R08010278-001JMS	Sample Matrix Spike					Run: DIONEX_080204A			02/04/08 22:12
Fluoride	2.1	mg/L	0.10	86	80	120			
Sample ID: R08010278-001JMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080204A			02/04/08 22:27
Fluoride	2.1	mg/L	0.10	85	80	120	1.0	10	
Method: E900.0							Batch: C_GrAB-0394		
Sample ID: UNAT-GrAB-0394	Laboratory Control Sample					Run: SUB-C97004			02/12/08 04:24
Gross Alpha	200	pCi/L	1.0	99	70	130			
Sample ID: Cs137-GrAB-0394	Laboratory Control Sample					Run: SUB-C97004			02/12/08 04:24
Gross Beta	90	pCi/L	2.0	99	70	130			
Sample ID: C08020114-001AMS	Sample Matrix Spike					Run: SUB-C97004			02/12/08 04:24
Gross Alpha	300	pCi/L	1.0	101	70	130			
Sample ID: C08020114-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C97004			02/12/08 04:24
Gross Alpha	290	pCi/L	1.0	95	70	130	5.1	12.5	
Sample ID: C08020114-001AMS	Sample Matrix Spike					Run: SUB-C97004			02/12/08 04:24
Gross Beta	110	pCi/L	2.0	96	70	130			
Sample ID: C08020114-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C97004			02/12/08 04:24
Gross Beta	110	pCi/L	2.0	97	70	130	1.3	15.3	
Sample ID: RB-GrAB-0394	Method Blank					Run: SUB-C97004			02/12/08 04:24
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/13/08
Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_17696		
Sample ID: MB-R96781	Method Blank				Run: SUB-C96781			02/06/08 15:40	
Gross Gamma		pCi/Filter	20						
Sample ID: LCS-R96781	Laboratory Control Sample				Run: SUB-C96781			02/06/08 15:40	
Cesium 137	1200	pCi/Filter	20	85	70	130			
Potassium 40	7320	pCi/Filter	20	110	70	130			
Sample ID: C08010969-005ADUP	Sample Duplicate				Run: SUB-C96781			02/06/08 15:40	
Gross Gamma	996	pCi/Filter	20				1.8	30	
Method: E903.0							Batch: C_17774		
Sample ID: C08020336-001IMS	Sample Matrix Spike				Run: SUB-C97404			02/25/08 03:07	
Radium 226	60	pCi/L	0.20	91	70	130			
Sample ID: C08020336-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C97404			02/25/08 04:38	
Radium 226	64	pCi/L	0.20	97	70	130	6.3	26	
Sample ID: MB-17774	Method Blank				Run: SUB-C97404			02/25/08 18:12	
Radium 226	ND	pCi/L	0.004						
Sample ID: LCS-17774	Laboratory Control Sample				Run: SUB-C97404			02/25/08 21:12	
Radium 226	12	pCi/L	0.20	95	70	130			
Method: E903.0							Batch: C_RA226-2616		
Sample ID: C08020114-001AMS	Sample Matrix Spike				Run: SUB-C96856			02/12/08 07:52	
Radium 226	16	pCi/L	0.20	124	70	130			
Sample ID: C08020114-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C96856			02/12/08 07:52	
Radium 226	15	pCi/L	0.20	123	70	130	0.9	29.2	
Sample ID: MB-RA226-2616	Method Blank				Run: SUB-C96856			02/12/08 08:57	
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2616	Laboratory Control Sample				Run: SUB-C96856			02/12/08 08:57	
Radium 226	15	pCi/L	0.20	115	70	130			

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/13/08
Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_17774		
Sample ID: C08020466-003AMS Thorium 230	Sample Matrix Spike 3.53 pCi/g-dry		0.10	96	70	130			02/19/08 15:45
Sample ID: C08020466-003AMSD Thorium 230	Sample Matrix Spike Duplicate 3.45 pCi/g-dry		0.10	109	70	130	2.3	30	02/19/08 15:45
Sample ID: LCS-17774 Thorium 230	Laboratory Control Sample 48.7 pCi/g-dry		0.10	101	70	130			02/19/08 15:45
Sample ID: MB-17774 Thorium 230	Method Blank 0.3 pCi/g-dry								02/19/08 15:45
Method: E907.0							Batch: C_R96860		
Sample ID: LCS-R96860 Thorium 230	Laboratory Control Sample 4.50 pCi/L		0.20	92	70	130			02/06/08 16:00
Sample ID: C08020065-004AMS Thorium 230	Sample Matrix Spike 16.4 pCi/L		0.20	101	70	130			02/06/08 16:00
Sample ID: C08020065-004AMSD Thorium 230	Sample Matrix Spike Duplicate 15.5 pCi/L		0.20	95	70	130	5.6	30	02/06/08 16:00
Sample ID: MB-R96860 Thorium 230	Method Blank ND pCi/L		0.2						02/06/08 16:00
Method: E909.0M							Batch: C_17774		
Sample ID: C08020466-003AMS Lead 210	Sample Matrix Spike 470 pCi/g-dry		0.10	79	70	130			02/19/08 07:00
Sample ID: C08020466-003AMSD Lead 210	Sample Matrix Spike Duplicate 460 pCi/g-dry		0.10	77	70	130	2.1	30	02/19/08 07:00
Sample ID: MB-R97325 Lead 210	Method Blank ND pCi/L		1						02/19/08 07:00
Sample ID: LCS-R97325 Lead 210	Laboratory Control Sample 130 pCi/L		1.0	112	70	130			02/19/08 07:00

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/13/08
 Work Order: R08020006

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R97080		
Sample ID: C08011127-043BMS	Sample Matrix Spike				Run: SUB-C97080			02/07/08 09:30	
Lead 210	516	pCi/g-dry	0.10	87	70	130			
Sample ID: C08011127-043BMSD	Sample Matrix Spike Duplicate				Run: SUB-C97080			02/07/08 09:30	
Lead 210	668	pCi/g-dry	0.10	112	70	130	26	30	
Sample ID: MB-R97080	Method Blank				Run: SUB-C97080			02/07/08 09:30	
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R97080	Laboratory Control Sample				Run: SUB-C97080			02/07/08 09:30	
Lead 210	110	pCi/L	1.0	96	70	130			
Method: RMO-3008							Batch: C_17774		
Sample ID: C08020336-008IMS	Sample Matrix Spike				Run: SUB-C97290			02/21/08 15:15	
Polonium 210	86	pCi/L	1.0	79	70	130			
Sample ID: C08020336-008IMSD	Sample Matrix Spike Duplicate				Run: SUB-C97290			02/21/08 15:15	
Polonium 210	81	pCi/L	1.0	74	70	130	6.0	30	
Sample ID: LCS-17774	Laboratory Control Sample				Run: SUB-C97290			02/21/08 15:15	
Polonium 210	19	pCi/L	1.0	83	70	130			
Sample ID: MB-17774	Method Blank				Run: SUB-C97290			02/21/08 15:15	
Polonium 210	ND	pCi/L	0.02						
Method: RMO-3008							Batch: C_R97013		
Sample ID: R08020006-001H	Sample Matrix Spike				Run: SUB-C97013			02/11/08 12:30	
Polonium 210	89	pCi/L	1.0	79	70	130			
Sample ID: R08020006-001H	Sample Matrix Spike Duplicate				Run: SUB-C97013			02/11/08 12:30	
Polonium 210	90	pCi/L	1.0	81	70	130	1.8	30	
Sample ID: LCS-R97013	Laboratory Control Sample				Run: SUB-C97013			02/11/08 12:30	
Polonium 210	19	pCi/L	1.0	85	70	130			
Sample ID: MB-R97013	Method Blank				Run: SUB-C97013			02/11/08 12:30	
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT. Provide as much information as possible.

Company Name: RESER		Project Name, PWS, Permit, Etc.: River Tech Perry Bank		Sample Origin State:		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>					
Report Mail Address: LERER		Contact Name: Cory Foreman @ reser.com		Phone/Fax:		Sampler (Please Print): Eric Kantz					
Invoice Address: RESER		Invoice Contact & Phone:		Purchase Order:		Quote/Bottle Order:					
Special Report/Formats – EII must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NEIAC <input type="checkbox"/> Other:				Number of Containers: Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other				ANALYSIS REQUESTED Air Quota			
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.): 1 SW 679 2 DeBurd SW 679 02/09/08 1625 W 3 4 5 6 7 8 9 10				MATRIX				SEE ATTACHED Normal Turnaround (TAT)			
Requested by (print): Eric Kantz Date/Time: 02/09/08 0750 Signature: [Signature]				Received by (print): Steve Freiland Date/Time: 2/9/08 9:50 Signature: [Signature]				Requested by (print): Steve Freiland Date/Time: 2/9/08 9:50 Signature: [Signature]			
Requested by (print): Eric Kantz Date/Time: 02/09/08 0750 Signature: [Signature]				Received by (print): Steve Freiland Date/Time: 2/9/08 9:50 Signature: [Signature]				Requested by (print): Steve Freiland Date/Time: 2/9/08 9:50 Signature: [Signature]			
Sample Disposal: Return to Client:				Lab Disposal:				Date/Time:			

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

LABORATORY USE ONLY

Shipped By: _____
 Cooler Dtg(s): _____
 Receipt Temp: 4.6 °C
 On Ice: Yes No
 Custody Seal: Y N
 Inlet: Y N
 Signature: Y N
 Match: Y N

8570 20006-001



ANALYTICAL SUMMARY REPORT

May 23, 2011

RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R08020052 Quote ID: R286
Project Name: Edgemont

Energy Laboratories Inc. Rapid City SD received the following 8 samples for RESPEC Inc on 2/6/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08020052-001	DewBurd GW8	02/05/08 10:20	02/06/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08020052-002	DewBurd GW675	02/05/08 12:05	02/06/08	Aqueous	Same As Above
R08020052-003	DewBurd GW677	02/05/08 13:39	02/06/08	Aqueous	Same As Above
R08020052-004	DewBurd GW42	02/05/08 14:10	02/06/08	Aqueous	Same As Above
R08020052-005	DewBurd GW678	02/05/08 15:39	02/06/08	Aqueous	Same As Above
R08020052-006	DewBurd GW678	02/05/08 15:45	02/06/08	Aqueous	Same As Above
R08020052-007	DewBurd GW676	02/05/08 16:57	02/06/08	Aqueous	Same As Above
R08020052-008	DewBurd BLK01	02/06/08 08:30	02/06/08	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.



ANALYTICAL SUMMARY REPORT

Report Approved By:

Linda K. Larson

Branch Manager

Digitally signed by
Linda Larson
Date: 2011.05.23 14:49:19 -06:00



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08020052

Revised Date: 05/23/11

Report Date: 05/13/08

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 10:20

Lab ID: R08020052-001

Date Received: 02/06/08

Client Sample ID: DewBurd GW8

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	02/19/08 15:11/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/19/08 15:11/sn
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	02/19/08 15:11/sn
Calcium	52.6	mg/L		0.5		1	E200.7	02/20/08 19:04/eli-c
Chloride	12	mg/L		1		1	E300.0	02/07/08 03:44/sn
Fluoride	0.5	mg/L		0.1		1	E300.0	02/07/08 03:44/sn
Magnesium	22.6	mg/L		0.5		1	E200.7	02/20/08 19:04/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	02/11/08 17:30/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/07/08 03:44/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/07/08 03:44/sn
Potassium	14.7	mg/L		0.5		1	E200.7	02/20/08 19:04/eli-c
Silica	7.3	mg/L		0.5		1	E200.7	02/20/08 19:04/eli-c
Sodium	222	mg/L	D	8		10	E200.7	02/20/08 15:47/eli-c
Sulfate	455	mg/L	D	3		50	E300.0	02/07/08 02:58/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1430	umhos/cm		5.0		1	A2510 B	02/08/08 15:52/jmh
Oxidation-Reduction Potential	220	mV				1	A2580 B	02/07/08 00:00/sn
pH	7.94	s.u.		0.01		1	A4500-H B	02/09/08 14:06/jmh
Sodium Adsorption Ratio (SAR)	6.4	Unitless		0.10		1	Calculation	02/20/08 19:04/krs
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C	02/11/08 14:28/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	02/20/08 19:04/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/19/08 13:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/19/08 13:19/eli-c
Boron	0.1	mg/L		0.1		1	E200.7	02/20/08 19:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 13:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 13:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 13:19/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/20/08 19:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 13:19/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	02/19/08 13:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 13:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/19/08 13:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 13:19/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B	02/14/08 10:42/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 13:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/19/08 13:19/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 10:20

Lab ID: R08020052-001

Date Received: 02/06/08

Client Sample ID: DewBurd GW8

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	02/19/08 13:19/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	02/19/08 13:19/eli-c
Zinc	0.02	mg/L		0.01		1 E200.7	02/20/08 19:04/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	02/15/08 22:40/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/14/08 09:05/eli-c
Selenium-VI	0.001	mg/L		0.001		1 A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	5.4	pCi/L		1.0		1 E900.0	02/21/08 08:44/eli-c
Gross Alpha precision (±)	1.6	pCi/L				1 E900.0	02/21/08 08:44/eli-c
Gross Beta	21.0	pCi/L		2.0		1 E900.0	02/21/08 08:44/eli-c
Gross Beta precision (±)	3.0	pCi/L				1 E900.0	02/21/08 08:44/eli-c
Lead 210	3.0	pCi/L		1.0		1 E909.0M	02/13/08 11:30/eli-c
Lead 210 precision (±)	0.80	pCi/L				1 E909.0M	02/13/08 11:30/eli-c
Polonium 210	1.6	pCi/L		1.0		1 RMO-3008	02/14/08 14:00/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1 RMO-3008	02/14/08 14:00/eli-c
Radium 226	1.5	pCi/L		0.2		1 E903.0	02/22/08 06:36/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	02/22/08 06:36/eli-c
Gross Gamma	ND	pCi/L		20		1 E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	1.9	pCi/L		1.0		1 E909.0M	02/19/08 07:00/eli-c
Lead 210 precision (±)	0.91	pCi/L				1 E909.0M	02/19/08 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1 RMO-3008	02/21/08 15:15/eli-c
Radium 226	2.8	pCi/L		0.2		1 E903.0	02/25/08 01:37/eli-c
Radium 226 precision (±)	1.4	pCi/L				1 E903.0	02/25/08 01:37/eli-c
Thorium 230	ND	pCi/L		0.2		1 E907.0	02/19/08 15:45/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	329	pCi/L	H	100		1 D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	104	pCi/L	H			1 D5072-92	02/11/08 13:20/eli-c
- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.							
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	02/19/08 16:05/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 10:20

Lab ID: R08020052-001

Date Received: 02/06/08

Client Sample ID: DewBurd GW8

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Arsenic	ND	mg/L		0.001		1	E200.8	02/19/08 16:05/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/20/08 18:58/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/20/08 18:58/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/20/08 19:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 16:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 16:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 16:05/eli-c
Iron	0.21	mg/L		0.03		1	E200.7	02/20/08 19:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 16:05/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	02/19/08 16:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 16:05/eli-c
Molybdenum	ND	mg/L		0.01		1	E200.8	02/19/08 16:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 16:05/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/19/08 16:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 16:05/eli-c
Strontium	1.6	mg/L		0.1		1	E200.8	02/19/08 16:05/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/19/08 16:05/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/08 16:05/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 19:50/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.03	%				1	A1030 E	05/01/08 12:51/krs
Anions	13.1	meq/L				1	A1030 E	05/01/08 12:51/krs
Cations	14.5	meq/L				1	A1030 E	05/01/08 12:51/krs
Solids, Total Dissolved Calculated	879	mg/L				1	A1030 E	05/01/08 12:51/krs
TDS Balance (0.80 - 1.20)	1.15	dec. %				1	A1030 E	05/01/08 12:51/krs

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 10:20

Lab ID: R08020052-001

Date Received: 02/06/08

Client Sample ID: DewBurd GW8

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B 02/19/08 15:11/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B 02/19/08 15:11/sn
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B 02/19/08 15:11/sn
Calcium	52.6	mg/L		0.5		1	E200.7 02/20/08 19:04/eli-c
Chloride	12	mg/L		1		1	E300.0 02/07/08 03:44/sn
Fluoride	0.5	mg/L		0.1		1	E300.0 02/07/08 03:44/sn
Magnesium	22.6	mg/L		0.5		1	E200.7 02/20/08 19:04/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G 02/11/08 17:30/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 02/07/08 03:44/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 02/07/08 03:44/sn
Potassium	14.7	mg/L		0.5		1	E200.7 02/20/08 19:04/eli-c
Silica	7.3	mg/L		0.5		1	E200.7 02/20/08 19:04/eli-c
Sodium	222	mg/L	D	8		10	E200.7 02/20/08 15:47/eli-c
Sulfate	455	mg/L	D	3		50	E300.0 02/07/08 02:58/sn
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1430	umhos/cm		5.0		1	A2510 B 02/08/08 15:52/jmh
Oxidation-Reduction Potential	220	mV				1	A2580 B 02/07/08 00:00/sn
pH	7.94	s.u.		0.01		1	A4500-H B 02/09/08 14:06/jmh
Sodium Adsorption Ratio (SAR)	6.4	Unitless		0.10		1	Calculation 02/20/08 19:04/krs
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C 02/11/08 14:28/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.7 02/20/08 19:04/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 02/19/08 13:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8 02/19/08 13:19/eli-c
Boron	0.1	mg/L		0.1		1	E200.7 02/20/08 19:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 02/19/08 13:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 02/19/08 13:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8 02/19/08 13:19/eli-c
Iron	ND	mg/L		0.03		1	E200.7 02/20/08 19:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8 02/19/08 13:19/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8 02/19/08 13:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 02/19/08 13:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 02/19/08 13:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 02/19/08 13:19/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B 02/14/08 10:42/eli-c
Silver	ND	mg/L		0.005		1	E200.8 02/19/08 13:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 02/19/08 13:19/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 10:20

Lab ID: R08020052-001

Date Received: 02/06/08

Client Sample ID: DewBurd GW8

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/08 13:19/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/19/08 13:19/eli-c
Zinc	0.02	mg/L		0.01		1	E200.7	02/20/08 19:04/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/15/08 22:40/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/14/08 09:05/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5.4	pCi/L		1.0		1	E900.0	02/21/08 08:44/eli-c
Gross Alpha precision (±)	1.6	pCi/L				1	E900.0	02/21/08 08:44/eli-c
Gross Beta	21.0	pCi/L		2.0		1	E900.0	02/21/08 08:44/eli-c
Gross Beta precision (±)	3.0	pCi/L				1	E900.0	02/21/08 08:44/eli-c
Lead 210	3.0	pCi/L		1.0		1	E909.0M	02/13/08 11:30/eli-c
Lead 210 precision (±)	0.80	pCi/L				1	E909.0M	02/13/08 11:30/eli-c
Polonium 210	1.6	pCi/L		1.0		1	RMO-3008	02/14/08 14:00/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	02/14/08 14:00/eli-c
Radium 226	1.5	pCi/L		0.2		1	E903.0	02/22/08 06:36/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	02/22/08 06:36/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.9	pCi/L		1.0		1	E909.0M	02/19/08 07:00/eli-c
Lead 210 precision (±)	0.91	pCi/L				1	E909.0M	02/19/08 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	2.8	pCi/L		0.2		1	E903.0	02/25/08 01:37/eli-c
Radium 226 precision (±)	1.4	pCi/L				1	E903.0	02/25/08 01:37/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/19/08 15:45/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	329	pCi/L	H	100		1	D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	104	pCi/L	H			1	D5072-92	02/11/08 13:20/eli-c
- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.								
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/19/08 16:05/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 10:20

Lab ID: R08020052-001

Date Received: 02/06/08

Client Sample ID: DewBurd GW8

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
TOTAL METALS ANALYSES							
Arsenic	ND	mg/L		0.001		1 E200.8	02/19/08 16:05/eli-c
Barium	ND	mg/L		0.1		1 E200.8	02/20/08 18:58/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	02/20/08 18:58/eli-c
Boron	ND	mg/L		0.1		1 E200.7	02/20/08 19:50/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	02/19/08 16:05/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	02/19/08 16:05/eli-c
Copper	ND	mg/L		0.01		1 E200.8	02/19/08 16:05/eli-c
Iron	0.21	mg/L		0.03		1 E200.7	02/20/08 19:50/eli-c
Lead	ND	mg/L		0.001		1 E200.8	02/19/08 16:05/eli-c
Manganese	0.08	mg/L		0.01		1 E200.8	02/19/08 16:05/eli-c
Mercury	ND	mg/L		0.001		1 E200.8	02/19/08 16:05/eli-c
Molybdenum	ND	mg/L		0.01		1 E200.8	02/19/08 16:05/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	02/19/08 16:05/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	02/19/08 16:05/eli-c
Silver	ND	mg/L		0.005		1 E200.8	02/19/08 16:05/eli-c
Strontium	1.6	mg/L		0.1		1 E200.8	02/19/08 16:05/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	02/19/08 16:05/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	02/19/08 16:05/eli-c
Zinc	ND	mg/L		0.01		1 E200.7	02/20/08 19:50/eli-c
DATA QUALITY							
A/C Balance (± 5)	5.03	%				1 A1030 E	05/01/08 12:51/krs
Anions	13.1	meq/L				1 A1030 E	05/01/08 12:51/krs
Cations	14.5	meq/L				1 A1030 E	05/01/08 12:51/krs
Solids, Total Dissolved Calculated	879	mg/L				1 A1030 E	05/01/08 12:51/krs
TDS Balance (0.80 - 1.20)	1.15	dec. %				1 A1030 E	05/01/08 12:51/krs

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 12:05

Lab ID: R08020052-002

Date Received: 02/06/08

Client Sample ID: DewBurd GW675

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	388	mg/L		5		1	A2320 B	02/19/08 15:13/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/19/08 15:13/sn
Bicarbonate as HCO3	473	mg/L		5		1	A2320 B	02/19/08 15:13/sn
Calcium	439	mg/L	D	1		10	E200.7	02/20/08 16:03/eli-c
Chloride	75	mg/L	D	5		50	E300.0	02/07/08 03:59/sn
Fluoride	0.6	mg/L		0.1		1	E300.0	02/07/08 04:15/sn
Magnesium	376	mg/L		0.5		10	E200.7	02/20/08 16:03/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	02/11/08 17:32/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/07/08 04:15/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/07/08 04:15/sn
Potassium	24.5	mg/L		0.5		1	E200.7	02/20/08 19:07/eli-c
Silica	14.4	mg/L		0.5		1	E200.7	02/20/08 19:07/eli-c
Sodium	769	mg/L	D	8		10	E200.7	02/20/08 16:03/eli-c
Sulfate	3260	mg/L	D	3		50	E300.0	02/07/08 03:59/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6340	umhos/cm		5.0		1	A2510 B	02/08/08 15:53/jmh
Oxidation-Reduction Potential	180	mV				1	A2580 B	02/07/08 00:00/sn
pH	7.29	s.u.		0.01		1	A4500-H B	02/09/08 14:06/jmh
Sodium Adsorption Ratio (SAR)	6.5	Unitless		0.10		1	Calculation	02/20/08 16:03/krs
Solids, Total Dissolved TDS @ 180 C	6100	mg/L		5		1	A2540 C	02/11/08 14:30/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	02/20/08 19:07/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/19/08 13:27/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/19/08 13:27/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	02/20/08 19:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 13:27/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 13:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 13:27/eli-c
Iron	0.15	mg/L		0.03		1	E200.7	02/20/08 19:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 13:27/eli-c
Manganese	3.39	mg/L		0.01		1	E200.8	02/19/08 13:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 13:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/19/08 13:27/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 13:27/eli-c
Selenium	0.001	mg/L		0.001		1	A3114 B	02/14/08 10:44/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 13:27/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/19/08 13:27/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 12:05

Lab ID: R08020052-002

Date Received: 02/06/08

Client Sample ID: DewBurd GW675

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0387	mg/L		0.0003		1 E200.8	02/19/08 13:27/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	02/19/08 13:27/eli-c
Zinc	ND	mg/L		0.01		1 E200.7	02/20/08 19:07/eli-c
METALS - SUSPENDED							
Uranium	0.0005	mg/L		0.0003		1 E200.8	02/15/08 22:45/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/14/08 09:07/eli-c
Selenium-VI	0.001	mg/L		0.001		1 A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	29.3	pCi/L		1.0		1 E900.0	02/21/08 08:44/eli-c
Gross Alpha precision (±)	9.2	pCi/L				1 E900.0	02/21/08 08:44/eli-c
Gross Beta	25.3	pCi/L		2.0		1 E900.0	02/21/08 08:44/eli-c
Gross Beta precision (±)	16.3	pCi/L				1 E900.0	02/21/08 08:44/eli-c
Lead 210	ND	pCi/L		1.0		1 E909.0M	02/13/08 11:30/eli-c
Polonium 210	2.1	pCi/L		1.0		1 RMO-3008	02/14/08 14:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1 RMO-3008	02/14/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1 E903.0	02/22/08 08:06/eli-c
Gross Gamma	ND	pCi/L		20		1 E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1 E909.0M	02/19/08 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1 RMO-3008	02/21/08 15:15/eli-c
Radium 226	ND	pCi/L		0.2		1 E903.0	02/25/08 06:08/eli-c
Thorium 230	ND	pCi/L		0.2		1 E907.0	02/19/08 15:45/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	783	pCi/L	H	100		1 D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	109	pCi/L	H			1 D5072-92	02/11/08 13:20/eli-c
- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.							
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	02/19/08 16:12/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	02/19/08 16:12/eli-c
Barium	ND	mg/L		0.1		1 E200.8	02/20/08 19:06/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	02/20/08 19:06/eli-c
Boron	ND	mg/L		0.1		1 E200.7	02/20/08 19:53/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 12:05

Lab ID: R08020052-002

Date Received: 02/06/08

Client Sample ID: DewBurd GW675

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 16:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 16:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 16:12/eli-c
Iron	3.48	mg/L		0.03		1	E200.7	02/20/08 19:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 16:12/eli-c
Manganese	3.40	mg/L		0.01		1	E200.8	02/19/08 16:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 16:12/eli-c
Molybdenum	ND	mg/L		0.01		1	E200.8	02/19/08 16:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 16:12/eli-c
Selenium	0.004	mg/L		0.001		1	E200.8	02/19/08 16:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 16:12/eli-c
Strontium	8.3	mg/L		0.1		1	E200.8	02/19/08 16:12/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/19/08 16:12/eli-c
Uranium	0.0387	mg/L		0.0003		1	E200.8	02/19/08 16:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 19:53/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.71	%				1	A1030 E	05/01/08 13:08/krs
Anions	77.8	meq/L				1	A1030 E	05/01/08 13:08/krs
Cations	87.2	meq/L				1	A1030 E	05/01/08 13:08/krs
Solids, Total Dissolved Calculated	5180	mg/L				1	A1030 E	05/01/08 13:08/krs
TDS Balance (0.80 - 1.20)	1.18	dec. %				1	A1030 E	05/01/08 13:08/krs

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 13:39

Lab ID: R08020052-003

Date Received: 02/06/08

Client Sample ID: DewBurd GW677

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	494	mg/L		5		1	A2320 B	02/19/08 15:19/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/19/08 15:19/sn
Bicarbonate as HCO3	602	mg/L		5		1	A2320 B	02/19/08 15:19/sn
Calcium	478	mg/L	D	1		10	E200.7	02/20/08 16:07/eli-c
Chloride	1290	mg/L	D	10		100	E300.0	02/07/08 23:00/sn
Fluoride	ND	mg/L		0.1		1	E300.0	02/07/08 04:46/sn
Magnesium	414	mg/L		0.5		10	E200.7	02/20/08 16:07/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/11/08 17:34/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/07/08 04:46/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/07/08 04:46/sn
Potassium	11.3	mg/L		0.5		1	E200.7	02/20/08 19:11/eli-c
Silica	9.4	mg/L		0.5		1	E200.7	02/20/08 19:11/eli-c
Sodium	2030	mg/L	D	8		10	E200.7	02/20/08 16:07/eli-c
Sulfate	4310	mg/L	D	3		50	E300.0	02/07/08 04:30/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	11600	umhos/cm		5.0		1	A2510 B	02/08/08 15:53/jmh
Oxidation-Reduction Potential	170	mV				1	A2580 B	02/07/08 00:00/sn
pH	7.13	s.u.		0.01		1	A4500-H B	02/09/08 14:06/jmh
Sodium Adsorption Ratio (SAR)	16	Unitless		0.10		1	Calculation	02/20/08 16:07/krs
Solids, Total Dissolved TDS @ 180 C	9600	mg/L		5		1	A2540 C	02/11/08 14:34/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	02/20/08 19:11/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/19/08 13:57/eli-c
Barium	ND	mg/L		0.1		1	E200.7	02/20/08 19:11/eli-c
Boron	0.8	mg/L		0.1		1	E200.7	02/20/08 19:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 13:57/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 13:57/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 13:57/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/20/08 19:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 13:57/eli-c
Manganese	2.59	mg/L		0.01		1	E200.8	02/19/08 13:57/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 13:57/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/19/08 13:57/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 13:57/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/14/08 10:46/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 13:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/19/08 13:57/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Report Date: 05/13/08

Collection Date: 02/05/08 13:39

Date Received: 02/06/08

Matrix: AQUEOUS

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020052-003
Client Sample ID: DewBurd GW677

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0402	mg/L		0.0003		1	E200.8	02/19/08 13:57/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/19/08 13:57/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 19:11/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/15/08 22:50/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/14/08 09:09/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	129	pCi/L		27.6		1	E900.0	04/27/08 03:01/eli-c
Gross Alpha precision (±)	26.8	pCi/L				1	E900.0	04/27/08 03:01/eli-c
Gross Beta	ND	pCi/L		26.7		1	E900.0	04/27/08 03:01/eli-c
Gross Beta precision (±)	15.9	pCi/L				1	E900.0	04/27/08 03:01/eli-c
Lead 210	2.1	pCi/L		1.0		1	E909.0M	02/13/08 11:30/eli-c
Lead 210 precision (±)	0.70	pCi/L				1	E909.0M	02/13/08 11:30/eli-c
Polonium 210	2.2	pCi/L		1.0		1	RMO-3008	02/14/08 14:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	02/14/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/22/08 09:36/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	02/19/08 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/25/08 09:09/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	02/29/08 14:00/eli-c
Thorium 230 precision (±)	0.01	pCi/L				1	E907.0	02/29/08 14:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	808	pCi/L	H	100		1	D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	108	pCi/L	H			1	D5072-92	02/11/08 13:20/eli-c
- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.								
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/19/08 16:20/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/19/08 16:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/20/08 19:14/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 13:39

Lab ID: R08020052-003

Date Received: 02/06/08

Client Sample ID: DewBurd GW677

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
TOTAL METALS ANALYSES								
Beryllium	ND	mg/L		0.001		1	E200.8	04/18/08 16:47/eli-c
Boron	0.7	mg/L		0.1		1	E200.7	02/20/08 19:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 16:20/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 16:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 16:20/eli-c
Iron	0.12	mg/L		0.03		1	E200.7	02/20/08 19:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 16:20/eli-c
Manganese	2.65	mg/L		0.01		1	E200.8	02/19/08 16:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 16:20/eli-c
Molybdenum	ND	mg/L		0.01		1	E200.8	02/19/08 16:20/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 16:20/eli-c
Selenium	0.006	mg/L		0.001		1	E200.8	02/19/08 16:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 16:20/eli-c
Strontium	10.0	mg/L		0.1		1	E200.8	02/19/08 16:20/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/19/08 16:20/eli-c
Uranium	0.0414	mg/L		0.0003		1	E200.8	02/19/08 16:20/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 19:57/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.88	%				1	A1030 E	05/01/08 13:13/krs
Anions	136	meq/L				1	A1030 E	05/01/08 13:13/krs
Cations	147	meq/L				1	A1030 E	05/01/08 13:13/krs
Solids, Total Dissolved Calculated	8830	mg/L				1	A1030 E	05/01/08 13:13/krs
TDS Balance (0.80 - 1.20)	1.09	dec. %				1	A1030 E	05/01/08 13:13/krs

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 14:10

Lab ID: R08020052-004

Date Received: 02/06/08

Client Sample ID: DewBurd GW42

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B 02/19/08 15:19/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B 02/19/08 15:19/sn
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B 02/19/08 15:19/sn
Calcium	35.3	mg/L		0.5		1	E200.7 02/20/08 19:14/eli-c
Chloride	12	mg/L		1		1	E300.0 02/07/08 05:16/sn
Fluoride	0.4	mg/L		0.1		1	E300.0 02/07/08 05:16/sn
Magnesium	12.3	mg/L		0.5		1	E200.7 02/20/08 19:14/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G 02/11/08 17:35/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 02/07/08 05:16/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 02/07/08 05:16/sn
Potassium	7.8	mg/L		0.5		1	E200.7 02/20/08 19:14/eli-c
Silica	7.4	mg/L		0.5		1	E200.7 02/20/08 19:14/eli-c
Sodium	289	mg/L	L	0.8		1	E200.7 02/20/08 19:14/eli-c
Sulfate	505	mg/L	D	3		50	E300.0 02/07/08 05:01/sn
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1420	umhos/cm		5.0		1	A2510 B 02/08/08 15:54/jmh
Oxidation-Reduction Potential	170	mV				1	A2580 B 02/07/08 00:00/sn
pH	8.08	s.u.		0.01		1	A4500-H B 02/09/08 14:07/jmh
Sodium Adsorption Ratio (SAR)	11	Unitless		0.10		1	Calculation 02/20/08 19:14/krs
Solids, Total Dissolved TDS @ 180 C	980	mg/L		5		1	A2540 C 02/11/08 14:36/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.7 02/20/08 19:14/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 02/19/08 14:05/eli-c
Barium	ND	mg/L		0.1		1	E200.7 02/20/08 19:14/eli-c
Boron	0.1	mg/L		0.1		1	E200.7 02/20/08 19:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 02/19/08 14:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 02/19/08 14:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8 02/19/08 14:05/eli-c
Iron	ND	mg/L		0.03		1	E200.7 02/20/08 19:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8 02/19/08 14:05/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8 02/19/08 14:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 02/19/08 14:05/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 02/19/08 14:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 02/19/08 14:05/eli-c
Selenium	0.001	mg/L		0.001		1	A3114 B 02/14/08 10:49/eli-c
Silver	ND	mg/L		0.005		1	E200.8 02/19/08 14:05/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 02/19/08 14:05/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
L - Lowest available reporting limit for the analytical method us



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 14:10

Lab ID: R08020052-004

Date Received: 02/06/08

Client Sample ID: DewBurd GW42

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0194	mg/L		0.0003		1	E200.8	02/19/08 14:05/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/19/08 14:05/eli-c
Zinc	0.02	mg/L		0.01		1	E200.7	02/20/08 19:14/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 00:02/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/14/08 09:11/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	526	pCi/L		1.0		1	E900.0	02/21/08 08:44/eli-c
Gross Alpha precision (±)	5.9	pCi/L				1	E900.0	02/21/08 08:44/eli-c
Gross Beta	93.5	pCi/L		2.0		1	E900.0	02/21/08 08:44/eli-c
Gross Beta precision (±)	3.5	pCi/L				1	E900.0	02/21/08 08:44/eli-c
Lead 210	15	pCi/L		1.0		1	E909.0M	02/13/08 11:30/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	02/13/08 11:30/eli-c
Polonium 210	5.5	pCi/L		1.0		1	RMO-3008	02/14/08 14:00/eli-c
Polonium 210 precision (±)	2.1	pCi/L				1	RMO-3008	02/14/08 14:00/eli-c
Radium 226	100	pCi/L		0.2		1	E903.0	02/22/08 10:22/eli-c
Radium 226 precision (±)	3.6	pCi/L				1	E903.0	02/22/08 10:22/eli-c
Gross Gamma	2800	pCi/L		20		1	E901.1	02/12/08 18:40/eli-c
Gross Gamma precision (±)	89	pCi/L				1	E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	17	pCi/L		1.0		1	E909.0M	02/19/08 07:00/eli-c
Lead 210 precision (±)	2.0	pCi/L				1	E909.0M	02/19/08 07:00/eli-c
Polonium 210	2.0	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Polonium 210 precision (±)	0.98	pCi/L				1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	5.1	pCi/L		0.2		1	E903.0	02/25/08 10:40/eli-c
Radium 226 precision (±)	1.6	pCi/L				1	E903.0	02/25/08 10:40/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/29/08 14:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	175000	pCi/L	H	100		1	D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	705	pCi/L	H			1	D5072-92	02/11/08 13:20/eli-c

- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.

Report Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.

QCL - Quality control limit.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 14:10

Lab ID: R08020052-004

Date Received: 02/06/08

Client Sample ID: DewBurd GW42

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/19/08 16:28/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	02/19/08 16:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/20/08 19:21/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/20/08 19:21/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/20/08 20:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 16:28/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 16:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 16:28/eli-c
Iron	0.15	mg/L		0.03		1	E200.7	02/20/08 20:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 16:28/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	02/19/08 16:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 16:28/eli-c
Molybdenum	ND	mg/L		0.01		1	E200.8	02/19/08 16:28/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 16:28/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/19/08 16:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 16:28/eli-c
Strontium	0.7	mg/L		0.1		1	E200.8	02/19/08 16:28/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/19/08 16:28/eli-c
Uranium	0.0198	mg/L		0.0003		1	E200.8	02/19/08 16:28/eli-c
Zinc	0.03	mg/L		0.01		1	E200.7	02/20/08 20:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.65	%				1	A1030 E	05/01/08 13:17/krs
Anions	14.5	meq/L				1	A1030 E	05/01/08 13:17/krs
Cations	15.6	meq/L				1	A1030 E	05/01/08 13:17/krs
Solids, Total Dissolved Calculated	971	mg/L				1	A1030 E	05/01/08 13:17/krs
TDS Balance (0.80 - 1.20)	1.01	dec. %				1	A1030 E	05/01/08 13:17/krs

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:39

Lab ID: R08020052-005

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	468	mg/L		5		1	A2320 B 02/19/08 15:43/sn
Carbonate as CO3	ND	mg/L				5	1 A2320 B 02/19/08 15:43/sn
Bicarbonate as HCO3	570	mg/L		5		1	A2320 B 02/19/08 15:43/sn
Calcium	428	mg/L	D	1		10	E200.7 02/20/08 16:13/eli-c
Chloride	96	mg/L	D	5		50	E300.0 02/07/08 05:32/sn
Fluoride	ND	mg/L		0.1		1	E300.0 02/07/08 05:47/sn
Magnesium	434	mg/L		0.5		10	E200.7 02/20/08 16:13/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 02/11/08 17:37/sn
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0 02/07/08 05:47/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 02/07/08 05:47/sn
Potassium	20.2	mg/L		0.5		1	E200.7 02/20/08 19:17/eli-c
Silica	16.3	mg/L		0.5		1	E200.7 02/20/08 19:17/eli-c
Sodium	634	mg/L	D	8		10	E200.7 02/20/08 16:13/eli-c
Sulfate	3540	mg/L	D	3		50	E300.0 02/07/08 05:32/sn
PHYSICAL PROPERTIES							
Conductivity @ 25 C	6020	umhos/cm		5.0		1	A2510 B 02/08/08 15:55/jmh
Oxidation-Reduction Potential	200	mV				1	A2580 B 02/07/08 00:00/sn
pH	7.34	s.u.		0.01		1	A4500-H B 02/09/08 14:08/jmh
Sodium Adsorption Ratio (SAR)	5.2	Unitless		0.10		1	Calculation 02/20/08 16:13/krs
Solids, Total Dissolved TDS @ 180 C	6000	mg/L		5		1	A2540 C 02/11/08 14:37/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.7 02/20/08 19:17/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 02/19/08 14:12/eli-c
Barium	ND	mg/L		0.1		1	E200.7 02/20/08 19:17/eli-c
Boron	1.6	mg/L		0.1		1	E200.7 02/20/08 19:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 02/19/08 14:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 02/19/08 14:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8 02/19/08 14:12/eli-c
Iron	ND	mg/L		0.03		1	E200.7 02/20/08 19:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8 02/19/08 14:12/eli-c
Manganese	2.39	mg/L		0.01		1	E200.8 02/19/08 14:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 02/19/08 14:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 02/19/08 14:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 02/19/08 14:12/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B 02/14/08 10:51/eli-c
Silver	ND	mg/L		0.005		1	E200.8 02/19/08 14:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 02/19/08 14:12/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:39

Lab ID: R08020052-005

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0368	mg/L		0.0003		1 E200.8	02/19/08 14:12/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	02/19/08 14:12/eli-c
Zinc	ND	mg/L		0.01		1 E200.7	02/20/08 19:17/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	02/21/08 00:06/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/14/08 09:14/eli-c
Selenium-VI	0.002	mg/L		0.001		1 A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	41.5	pCi/L		1.0		1 E900.0	02/21/08 08:44/eli-c
Gross Alpha precision (±)	9.6	pCi/L				1 E900.0	02/21/08 08:44/eli-c
Gross Beta	16.0	pCi/L		2.0		1 E900.0	02/21/08 08:44/eli-c
Gross Beta precision (±)	16.2	pCi/L				1 E900.0	02/21/08 08:44/eli-c
Lead 210	3.3	pCi/L		1.0		1 E909.0M	02/13/08 11:30/eli-c
Lead 210 precision (±)	0.90	pCi/L				1 E909.0M	02/13/08 11:30/eli-c
Polonium 210	2.4	pCi/L		1.0		1 RMO-3008	02/14/08 14:00/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1 RMO-3008	02/14/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1 E903.0	02/22/08 11:52/eli-c
Gross Gamma	ND	pCi/L		20		1 E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1 E909.0M	02/19/08 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1 RMO-3008	02/21/08 15:15/eli-c
Radium 226	ND	pCi/L		0.2		1 E903.0	02/25/08 12:10/eli-c
Thorium 230	ND	pCi/L		0.2		1 E907.0	02/19/08 15:45/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	487	pCi/L	H	100		1 D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	103	pCi/L	H			1 D5072-92	02/11/08 13:20/eli-c
- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.							
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	02/19/08 16:35/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	02/19/08 16:35/eli-c
Barium	ND	mg/L		0.1		1 E200.8	02/20/08 19:29/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	02/20/08 19:29/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:39

Lab ID: R08020052-005

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
TOTAL METALS ANALYSES								
Boron	1.6	mg/L		0.1		1	E200.7	02/20/08 20:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 16:35/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 16:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 16:35/eli-c
Iron	0.04	mg/L		0.03		1	E200.7	02/20/08 20:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 16:35/eli-c
Manganese	2.72	mg/L		0.01		1	E200.8	02/19/08 16:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 16:35/eli-c
Molybdenum	0.01	mg/L		0.01		1	E200.8	02/19/08 16:35/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 16:35/eli-c
Selenium	0.005	mg/L		0.001		1	E200.8	02/19/08 16:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 16:35/eli-c
Strontium	10.2	mg/L		0.1		1	E200.8	02/19/08 16:35/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/19/08 16:35/eli-c
Uranium	0.0379	mg/L		0.0003		1	E200.8	02/19/08 16:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 20:03/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.31	%				1	A1030 E	05/01/08 14:03/krs
Anions	85.9	meq/L				1	A1030 E	05/01/08 14:03/krs
Cations	85.3	meq/L				1	A1030 E	05/01/08 14:03/krs
Solids, Total Dissolved Calculated	5440	mg/L				1	A1030 E	05/01/08 14:03/krs
TDS Balance (0.80 - 1.20)	1.10	dec. %				1	A1030 E	05/01/08 14:03/krs

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:39

Lab ID: R08020052-005

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	468	mg/L		5		1	A2320 B	02/19/08 15:43/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/19/08 15:43/sn
Bicarbonate as HCO3	570	mg/L		5		1	A2320 B	02/19/08 15:43/sn
Calcium	428	mg/L	D	1		10	E200.7	02/20/08 16:13/eli-c
Chloride	96	mg/L	D	5		50	E300.0	02/07/08 05:32/sn
Fluoride	ND	mg/L		0.1		1	E300.0	02/07/08 05:47/sn
Magnesium	434	mg/L		0.5		10	E200.7	02/20/08 16:13/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/11/08 17:37/sn
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	02/07/08 05:47/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/07/08 05:47/sn
Potassium	20.2	mg/L		0.5		1	E200.7	02/20/08 19:17/eli-c
Silica	16.3	mg/L		0.5		1	E200.7	02/20/08 19:17/eli-c
Sodium	634	mg/L	D	8		10	E200.7	02/20/08 16:13/eli-c
Sulfate	3540	mg/L	D	3		50	E300.0	02/07/08 05:32/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6020	umhos/cm		5.0		1	A2510 B	02/08/08 15:55/jmh
Oxidation-Reduction Potential	200	mV				1	A2580 B	02/07/08 00:00/sn
pH	7.34	s.u.		0.01		1	A4500-H B	02/09/08 14:08/jmh
Sodium Adsorption Ratio (SAR)	5.2	Unitless		0.10		1	Calculation	02/20/08 16:13/krs
Solids, Total Dissolved TDS @ 180 C	6000	mg/L		5		1	A2540 C	02/11/08 14:37/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	02/20/08 19:17/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/19/08 14:12/eli-c
Barium	ND	mg/L		0.1		1	E200.7	02/20/08 19:17/eli-c
Boron	1.6	mg/L		0.1		1	E200.7	02/20/08 19:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 14:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 14:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 14:12/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/20/08 19:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 14:12/eli-c
Manganese	2.39	mg/L		0.01		1	E200.8	02/19/08 14:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 14:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/19/08 14:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 14:12/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B	02/14/08 10:51/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 14:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/19/08 14:12/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:39

Lab ID: R08020052-005

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0368	mg/L		0.0003		1	E200.8	02/19/08 14:12/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/19/08 14:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 19:17/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 00:06/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/14/08 09:14/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	41.5	pCi/L		1.0		1	E900.0	02/21/08 08:44/eli-c
Gross Alpha precision (±)	9.6	pCi/L				1	E900.0	02/21/08 08:44/eli-c
Gross Beta	16.0	pCi/L		2.0		1	E900.0	02/21/08 08:44/eli-c
Gross Beta precision (±)	16.2	pCi/L				1	E900.0	02/21/08 08:44/eli-c
Lead 210	3.3	pCi/L		1.0		1	E909.0M	02/13/08 11:30/eli-c
Lead 210 precision (±)	0.90	pCi/L				1	E909.0M	02/13/08 11:30/eli-c
Polonium 210	2.4	pCi/L		1.0		1	RMO-3008	02/14/08 14:00/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	02/14/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/22/08 11:52/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	02/19/08 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/25/08 12:10/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/19/08 15:45/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	487	pCi/L	H	100		1	D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	103	pCi/L	H			1	D5072-92	02/11/08 13:20/eli-c
- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.								
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/19/08 16:35/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	02/19/08 16:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/20/08 19:29/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/20/08 19:29/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:39

Lab ID: R08020052-005

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
TOTAL METALS ANALYSES								
Boron	1.6	mg/L		0.1		1	E200.7	02/20/08 20:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 16:35/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 16:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 16:35/eli-c
Iron	0.04	mg/L		0.03		1	E200.7	02/20/08 20:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 16:35/eli-c
Manganese	2.72	mg/L		0.01		1	E200.8	02/19/08 16:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 16:35/eli-c
Molybdenum	0.01	mg/L		0.01		1	E200.8	02/19/08 16:35/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 16:35/eli-c
Selenium	0.005	mg/L		0.001		1	E200.8	02/19/08 16:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 16:35/eli-c
Strontium	10.2	mg/L		0.1		1	E200.8	02/19/08 16:35/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/19/08 16:35/eli-c
Uranium	0.0379	mg/L		0.0003		1	E200.8	02/19/08 16:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 20:03/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.31	%				1	A1030 E	05/01/08 14:03/krs
Anions	85.9	meq/L				1	A1030 E	05/01/08 14:03/krs
Cations	85.3	meq/L				1	A1030 E	05/01/08 14:03/krs
Solids, Total Dissolved Calculated	5440	mg/L				1	A1030 E	05/01/08 14:03/krs
TDS Balance (0.80 - 1.20)	1.10	dec. %				1	A1030 E	05/01/08 14:03/krs

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:45

Lab ID: R08020052-006

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	472	mg/L		5		1	A2320 B	02/19/08 15:48/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/19/08 15:48/sn
Bicarbonate as HCO3	575	mg/L		5		1	A2320 B	02/19/08 15:48/sn
Calcium	412	mg/L	D	1		10	E200.7	02/20/08 16:17/eli-c
Chloride	94	mg/L	D	5		50	E300.0	02/07/08 06:03/sn
Fluoride	0.9	mg/L		0.1		1	E300.0	02/07/08 06:18/sn
Magnesium	438	mg/L		0.5		10	E200.7	02/20/08 16:17/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/11/08 17:38/sn
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	02/07/08 06:18/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/07/08 06:18/sn
Potassium	20.0	mg/L		0.5		1	E200.7	02/20/08 19:40/eli-c
Silica	16.3	mg/L		0.5		1	E200.7	02/20/08 19:40/eli-c
Sodium	628	mg/L	D	8		10	E200.7	02/20/08 16:17/eli-c
Sulfate	3620	mg/L	D	3		50	E300.0	02/07/08 06:03/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5990	umhos/cm		5.0		1	A2510 B	02/08/08 15:56/jmh
Oxidation-Reduction Potential	200	mV				1	A2580 B	02/07/08 00:00/sn
pH	7.36	s.u.		0.01		1	A4500-H B	02/09/08 14:09/jmh
Sodium Adsorption Ratio (SAR)	5.1	Unitless		0.10		1	Calculation	02/20/08 16:17/krs
Solids, Total Dissolved TDS @ 180 C	6000	mg/L		5		1	A2540 C	02/11/08 14:38/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	02/20/08 19:40/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/19/08 14:35/eli-c
Barium	ND	mg/L		0.1		1	E200.7	02/20/08 19:40/eli-c
Boron	1.6	mg/L		0.1		1	E200.7	02/20/08 19:40/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 14:35/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 14:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 14:35/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/20/08 19:40/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 14:35/eli-c
Manganese	2.79	mg/L		0.01		1	E200.8	02/19/08 14:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 14:35/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/19/08 14:35/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 14:35/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/14/08 10:53/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 14:35/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/19/08 14:35/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:45

Lab ID: R08020052-006

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0368	mg/L		0.0003		1 E200.8	02/19/08 14:35/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	02/19/08 14:35/eli-c
Zinc	ND	mg/L		0.01		1 E200.7	02/20/08 19:40/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	02/21/08 00:19/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/14/08 09:16/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	30.2	pCi/L		1.0		1 E900.0	02/21/08 21:10/eli-c
Gross Alpha precision (±)	9.3	pCi/L				1 E900.0	02/21/08 21:10/eli-c
Gross Beta	ND	pCi/L		2.0		1 E900.0	02/21/08 21:10/eli-c
Lead 210	ND	pCi/L		1.0		1 E909.0M	02/13/08 11:30/eli-c
Polonium 210	1.0	pCi/L		1.0		1 RMO-3008	02/14/08 14:00/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1 RMO-3008	02/14/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1 E903.0	02/22/08 13:23/eli-c
Gross Gamma	100	pCi/L		20		1 E901.1	02/12/08 18:40/eli-c
Gross Gamma precision (±)	28	pCi/L				1 E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1 E909.0M	02/19/08 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1 RMO-3008	02/21/08 15:15/eli-c
Radium 226	ND	pCi/L		0.2		1 E903.0	02/25/08 13:40/eli-c
Thorium 230	ND	pCi/L		0.2		1 E907.0	02/19/08 15:45/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	418	pCi/L	H	100		1 D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	102	pCi/L	H			1 D5072-92	02/11/08 13:20/eli-c
- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.							
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	02/19/08 16:43/eli-c
Arsenic	0.001	mg/L		0.001		1 E200.8	02/19/08 16:43/eli-c
Barium	ND	mg/L		0.1		1 E200.8	02/20/08 19:59/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	02/20/08 19:59/eli-c
Boron	1.6	mg/L		0.1		1 E200.7	02/20/08 20:07/eli-c

Report Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.

QCL - Quality control limit.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:45

Lab ID: R08020052-006

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
TOTAL METALS ANALYSES							
Cadmium	ND	mg/L		0.005		1 E200.8	02/19/08 16:43/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	02/19/08 16:43/eli-c
Copper	ND	mg/L		0.01		1 E200.8	02/19/08 16:43/eli-c
Iron	0.04	mg/L		0.03		1 E200.7	02/20/08 20:07/eli-c
Lead	ND	mg/L		0.001		1 E200.8	02/19/08 16:43/eli-c
Manganese	2.61	mg/L		0.01		1 E200.8	02/19/08 16:43/eli-c
Mercury	ND	mg/L		0.001		1 E200.8	02/19/08 16:43/eli-c
Molybdenum	0.01	mg/L		0.01		1 E200.8	02/19/08 16:43/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	02/19/08 16:43/eli-c
Selenium	0.004	mg/L		0.001		1 E200.8	02/19/08 16:43/eli-c
Silver	ND	mg/L		0.005		1 E200.8	02/19/08 16:43/eli-c
Strontium	9.7	mg/L		0.1		1 E200.8	02/19/08 16:43/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	02/19/08 16:43/eli-c
Uranium	0.0352	mg/L		0.0003		1 E200.8	02/19/08 16:43/eli-c
Zinc	ND	mg/L		0.01		1 E200.7	02/20/08 20:07/eli-c
DATA QUALITY							
A/C Balance (± 5)	-1.70	%				1 A1030 E	05/01/08 14:14/krs
Anions	87.6	meq/L				1 A1030 E	05/01/08 14:14/krs
Cations	84.6	meq/L				1 A1030 E	05/01/08 14:14/krs
Solids, Total Dissolved Calculated	5500	mg/L				1 A1030 E	05/01/08 14:14/krs
TDS Balance (0.80 - 1.20)	1.10	dec. %				1 A1030 E	05/01/08 14:14/krs

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:45

Lab ID: R08020052-006

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	472	mg/L		5		A2320 B	02/19/08 15:48/sn
Carbonate as CO3	ND	mg/L		5		A2320 B	02/19/08 15:48/sn
Bicarbonate as HCO3	575	mg/L		5		A2320 B	02/19/08 15:48/sn
Calcium	412	mg/L	D	1	10	E200.7	02/20/08 16:17/eli-c
Chloride	94	mg/L	D	5	50	E300.0	02/07/08 06:03/sn
Fluoride	0.9	mg/L		0.1	1	E300.0	02/07/08 06:18/sn
Magnesium	438	mg/L		0.5	10	E200.7	02/20/08 16:17/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1	1	A4500-NH3 G	02/11/08 17:38/sn
Nitrogen, Nitrate as N	0.1	mg/L		0.1	1	E300.0	02/07/08 06:18/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	02/07/08 06:18/sn
Potassium	20.0	mg/L		0.5	1	E200.7	02/20/08 19:40/eli-c
Silica	16.3	mg/L		0.5	1	E200.7	02/20/08 19:40/eli-c
Sodium	628	mg/L	D	8	10	E200.7	02/20/08 16:17/eli-c
Sulfate	3620	mg/L	D	3	50	E300.0	02/07/08 06:03/sn
PHYSICAL PROPERTIES							
Conductivity @ 25 C	5990	umhos/cm		5.0		A2510 B	02/08/08 15:56/jmh
Oxidation-Reduction Potential	200	mV				A2580 B	02/07/08 00:00/sn
pH	7.36	s.u.		0.01		A4500-H B	02/09/08 14:09/jmh
Sodium Adsorption Ratio (SAR)	5.1	Unitless		0.10		Calculation	02/20/08 16:17/krs
Solids, Total Dissolved TDS @ 180 C	6000	mg/L		5		A2540 C	02/11/08 14:38/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	02/20/08 19:40/eli-c
Arsenic	0.001	mg/L		0.001		E200.8	02/19/08 14:35/eli-c
Barium	ND	mg/L		0.1		E200.7	02/20/08 19:40/eli-c
Boron	1.6	mg/L		0.1		E200.7	02/20/08 19:40/eli-c
Cadmium	ND	mg/L		0.005		E200.8	02/19/08 14:35/eli-c
Chromium	ND	mg/L		0.05		E200.8	02/19/08 14:35/eli-c
Copper	ND	mg/L		0.01		E200.8	02/19/08 14:35/eli-c
Iron	ND	mg/L		0.03		E200.7	02/20/08 19:40/eli-c
Lead	ND	mg/L		0.001		E200.8	02/19/08 14:35/eli-c
Manganese	2.79	mg/L		0.01		E200.8	02/19/08 14:35/eli-c
Mercury	ND	mg/L		0.001		E200.8	02/19/08 14:35/eli-c
Molybdenum	ND	mg/L		0.1		E200.8	02/19/08 14:35/eli-c
Nickel	ND	mg/L		0.05		E200.8	02/19/08 14:35/eli-c
Selenium	ND	mg/L		0.001		A3114 B	02/14/08 10:53/eli-c
Silver	ND	mg/L		0.005		E200.8	02/19/08 14:35/eli-c
Thorium 232	ND	mg/L		0.005		E200.8	02/19/08 14:35/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:45

Lab ID: R08020052-006

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0368	mg/L		0.0003		1	E200.8	02/19/08 14:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/19/08 14:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 19:40/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 00:19/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/14/08 09:16/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	30.2	pCi/L		1.0		1	E900.0	02/21/08 21:10/eli-c
Gross Alpha precision (±)	9.3	pCi/L				1	E900.0	02/21/08 21:10/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	02/21/08 21:10/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	02/13/08 11:30/eli-c
Polonium 210	1.0	pCi/L		1.0		1	RMO-3008	02/14/08 14:00/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	02/14/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/22/08 13:23/eli-c
Gross Gamma	100	pCi/L		20		1	E901.1	02/12/08 18:40/eli-c
Gross Gamma precision (±)	28	pCi/L				1	E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	02/19/08 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/25/08 13:40/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/19/08 15:45/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	418	pCi/L	H	100		1	D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	102	pCi/L	H			1	D5072-92	02/11/08 13:20/eli-c

- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.

TOTAL METALS ANALYSES

Antimony	ND	mg/L		0.003		1	E200.8	02/19/08 16:43/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/19/08 16:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/20/08 19:59/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/20/08 19:59/eli-c
Boron	1.6	mg/L		0.1		1	E200.7	02/20/08 20:07/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 15:45

Lab ID: R08020052-006

Date Received: 02/06/08

Client Sample ID: DewBurd GW678

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 16:43/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 16:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 16:43/eli-c
Iron	0.04	mg/L		0.03		1	E200.7	02/20/08 20:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 16:43/eli-c
Manganese	2.61	mg/L		0.01		1	E200.8	02/19/08 16:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 16:43/eli-c
Molybdenum	0.01	mg/L		0.01		1	E200.8	02/19/08 16:43/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 16:43/eli-c
Selenium	0.004	mg/L		0.001		1	E200.8	02/19/08 16:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 16:43/eli-c
Strontium	9.7	mg/L		0.1		1	E200.8	02/19/08 16:43/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/19/08 16:43/eli-c
Uranium	0.0352	mg/L		0.0003		1	E200.8	02/19/08 16:43/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 20:07/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.70	%				1	A1030 E	05/01/08 14:14/krs
Anions	87.6	meq/L				1	A1030 E	05/01/08 14:14/krs
Cations	84.6	meq/L				1	A1030 E	05/01/08 14:14/krs
Solids, Total Dissolved Calculated	5500	mg/L				1	A1030 E	05/01/08 14:14/krs
TDS Balance (0.80 - 1.20)	1.10	dec. %				1	A1030 E	05/01/08 14:14/krs

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 16:57

Lab ID: R08020052-007

Date Received: 02/06/08

Client Sample ID: DewBurd GW676

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	208	mg/L		5		A2320 B	02/19/08 15:50/sn
Carbonate as CO3	ND	mg/L		5		A2320 B	02/19/08 15:50/sn
Bicarbonate as HCO3	254	mg/L		5		A2320 B	02/19/08 15:50/sn
Calcium	518	mg/L	D	1	10	E200.7	02/20/08 16:20/eli-c
Chloride	14	mg/L		1	1	E300.0	02/07/08 06:49/sn
Fluoride	0.4	mg/L		0.1	1	E300.0	02/07/08 06:49/sn
Magnesium	114	mg/L		0.5	10	E200.7	02/20/08 16:20/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1	1	A4500-NH3 G	02/11/08 17:39/sn
Nitrogen, Nitrate as N	0.7	mg/L		0.1	1	E300.0	02/07/08 06:49/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	02/07/08 06:49/sn
Potassium	12.7	mg/L		0.5	1	E200.7	02/20/08 19:44/eli-c
Silica	14.3	mg/L		0.5	1	E200.7	02/20/08 19:44/eli-c
Sodium	92.2	mg/L	L	0.8	1	E200.7	02/20/08 19:44/eli-c
Sulfate	1670	mg/L	D	3	50	E300.0	02/07/08 06:33/sn
PHYSICAL PROPERTIES							
Conductivity @ 25 C	3010	umhos/cm		5.0	1	A2510 B	02/08/08 15:58/jmh
Oxidation-Reduction Potential	230	mV			1	A2580 B	02/07/08 00:00/sn
pH	7.20	s.u.		0.01	1	A4500-H B	02/09/08 14:10/jmh
Sodium Adsorption Ratio (SAR)	0.96	Unitless		0.10	1	Calculation	02/20/08 19:44/krs
Solids, Total Dissolved TDS @ 180 C	2500	mg/L		5	1	A2540 C	02/11/08 14:40/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	1	E200.7	02/20/08 19:44/eli-c
Arsenic	ND	mg/L		0.001	1	E200.8	02/19/08 14:42/eli-c
Barium	ND	mg/L		0.1	1	E200.7	02/20/08 19:44/eli-c
Boron	0.5	mg/L		0.1	1	E200.7	02/20/08 19:44/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	02/19/08 14:42/eli-c
Chromium	ND	mg/L		0.05	1	E200.8	02/19/08 14:42/eli-c
Copper	ND	mg/L		0.01	1	E200.8	02/19/08 14:42/eli-c
Iron	ND	mg/L		0.03	1	E200.7	02/20/08 19:44/eli-c
Lead	ND	mg/L		0.001	1	E200.8	02/19/08 14:42/eli-c
Manganese	0.02	mg/L		0.01	1	E200.8	02/19/08 14:42/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	02/19/08 14:42/eli-c
Molybdenum	ND	mg/L		0.1	1	E200.8	02/19/08 14:42/eli-c
Nickel	ND	mg/L		0.05	1	E200.8	02/19/08 14:42/eli-c
Selenium	0.012	mg/L		0.001	1	A3114 B	02/14/08 10:55/eli-c
Silver	ND	mg/L		0.005	1	E200.8	02/19/08 14:42/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	02/19/08 14:42/eli-c

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 L - Lowest available reporting limit for the analytical method us



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 16:57

Lab ID: R08020052-007

Date Received: 02/06/08

Client Sample ID: DewBurd GW676

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0586	mg/L		0.0003		1	E200.8	02/19/08 14:42/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/19/08 14:42/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 19:44/eli-c
METALS - SUSPENDED								
Uranium	0.0702	mg/L		0.0003		1	E200.8	02/21/08 00:23/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/14/08 09:18/eli-c
Selenium-VI	0.012	mg/L		0.001		1	A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	95.5	pCi/L		1.0		1	E900.0	02/21/08 21:10/eli-c
Gross Alpha precision (±)	4.5	pCi/L				1	E900.0	02/21/08 21:10/eli-c
Gross Beta	22.1	pCi/L		2.0		1	E900.0	02/21/08 21:10/eli-c
Gross Beta precision (±)	5.7	pCi/L				1	E900.0	02/21/08 21:10/eli-c
Lead 210	4.1	pCi/L		1.0		1	E909.0M	02/13/08 11:30/eli-c
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	02/13/08 11:30/eli-c
Polonium 210	2.9	pCi/L		1.0		1	RMO-3008	02/14/08 14:00/eli-c
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	02/14/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/22/08 14:53/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	3.8	pCi/L		1.0		1	E909.0M	02/19/08 07:00/eli-c
Lead 210 precision (±)	1.1	pCi/L				1	E909.0M	02/19/08 07:00/eli-c
Polonium 210	2.2	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Polonium 210 precision (±)	0.96	pCi/L				1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	11.4	pCi/L		0.2		1	E903.0	02/25/08 15:11/eli-c
Radium 226 precision (±)	2.2	pCi/L				1	E903.0	02/25/08 15:11/eli-c
Thorium 230	4.2	pCi/L		0.2		1	E907.0	02/19/08 15:45/eli-c
Thorium 230 precision (±)	1.1	pCi/L				1	E907.0	02/19/08 15:45/eli-c
-The laboratory is confirming the Ra226 result for this sample.								
RADIONUCLIDES - TOTAL								
Radon 222	686	pCi/L	H	100		1	D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	104	pCi/L	H			1	D5072-92	02/11/08 13:20/eli-c
- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.								

TOTAL METALS ANALYSES

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/05/08 16:57

Lab ID: R08020052-007

Date Received: 02/06/08

Client Sample ID: DewBurd GW676

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		5	E200.8	02/20/08 20:06/eli-c
Arsenic	0.021	mg/L		0.001		5	E200.8	02/20/08 20:06/eli-c
Barium	0.5	mg/L		0.1		1	E200.7	02/20/08 20:10/eli-c
Beryllium	0.003	mg/L		0.001		5	E200.8	02/20/08 20:06/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	02/20/08 20:10/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	02/20/08 20:06/eli-c
Chromium	0.05	mg/L		0.05		1	E200.8	02/19/08 17:13/eli-c
Copper	0.12	mg/L		0.01		1	E200.7	02/20/08 20:10/eli-c
Iron	66.0	mg/L	D	0.1		1	E200.7	02/20/08 20:10/eli-c
Lead	0.060	mg/L		0.001		1	E200.8	02/19/08 17:13/eli-c
Manganese	2.52	mg/L		0.01		1	E200.8	02/19/08 17:13/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 17:13/eli-c
Molybdenum	ND	mg/L		0.01		1	E200.7	02/20/08 20:10/eli-c
Nickel	0.10	mg/L		0.05		1	E200.7	02/20/08 20:10/eli-c
Selenium	0.013	mg/L		0.001		5	E200.8	02/20/08 20:06/eli-c
Silver	ND	mg/L		0.005		5	E200.8	02/20/08 20:06/eli-c
Strontium	9.2	mg/L		0.1		1	E200.7	02/20/08 20:10/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/19/08 17:13/eli-c
Uranium	0.0687	mg/L		0.0003		1	E200.8	02/19/08 17:13/eli-c
Zinc	0.28	mg/L		0.01		1	E200.7	02/20/08 20:10/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.0941	%				1	A1030 E	05/01/08 14:32/krs
Anions	39.5	meq/L				1	A1030 E	05/01/08 14:32/krs
Cations	39.5	meq/L				1	A1030 E	05/01/08 14:32/krs
Solids, Total Dissolved Calculated	2550	mg/L				1	A1030 E	05/01/08 14:32/krs
TDS Balance (0.80 - 1.20)	0.980	dec. %				1	A1030 E	05/01/08 14:32/krs

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/06/08 08:30

Lab ID: R08020052-008

Date Received: 02/06/08

Client Sample ID: DewBurd BLK01

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	02/19/08 15:51/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/19/08 15:51/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	02/19/08 15:51/sn
Calcium	ND	mg/L		0.5		1	E200.7	02/20/08 19:47/eli-c
Chloride	ND	mg/L		2		1	E300.0	02/07/08 07:20/sn
Fluoride	ND	mg/L		0.1		1	E300.0	02/07/08 07:20/sn
Magnesium	ND	mg/L		0.5		1	E200.7	02/20/08 19:47/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/11/08 17:40/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/07/08 07:20/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/07/08 07:20/sn
Potassium	ND	mg/L		0.5		1	E200.7	02/20/08 19:47/eli-c
Silica	ND	mg/L		0.5		1	E200.7	02/20/08 19:47/eli-c
Sodium	ND	mg/L	L	0.8		1	E200.7	02/20/08 19:47/eli-c
Sulfate	ND	mg/L		2		1	E300.0	02/07/08 07:20/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	02/08/08 15:58/jmh
Oxidation-Reduction Potential	310	mV				1	A2580 B	02/07/08 00:00/sn
pH	5.95	s.u.		0.01		1	A4500-H B	02/09/08 14:14/jmh
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	05/01/08 14:40/krs
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C	02/11/08 14:41/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	02/20/08 19:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/19/08 14:50/eli-c
Barium	ND	mg/L		0.1		1	E200.7	02/20/08 19:47/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/20/08 19:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 14:50/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 14:50/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 14:50/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/20/08 19:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 14:50/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	02/19/08 14:50/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 14:50/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/19/08 14:50/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 14:50/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/14/08 10:57/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 14:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/19/08 14:50/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/06/08 08:30

Lab ID: R08020052-008

Date Received: 02/06/08

Client Sample ID: DewBurd BLK01

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/08 14:50/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/19/08 14:50/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 19:47/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 00:43/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/14/08 09:20/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	ND	pCi/L		1.0		1	E900.0	02/21/08 21:10/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	02/21/08 21:10/eli-c
Lead 210	3.1	pCi/L		1.0		1	E909.0M	02/13/08 11:30/eli-c
Lead 210 precision (±)	0.80	pCi/L				1	E909.0M	02/13/08 11:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/14/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/22/08 16:23/eli-c
Gross Gamma	110	pCi/L		20		1	E901.1	02/12/08 18:40/eli-c
Gross Gamma precision (±)	26	pCi/L				1	E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	3.0	pCi/L		1.0		1	E909.0M	02/19/08 07:00/eli-c
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	02/19/08 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/25/08 16:41/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/19/08 15:45/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	216	pCi/L	H	100		1	D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	87.1	pCi/L	H			1	D5072-92	02/11/08 13:20/eli-c
- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.								
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/19/08 17:20/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/19/08 17:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/20/08 20:14/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/20/08 20:14/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/20/08 20:33/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/06/08 08:30

Lab ID: R08020052-008

Date Received: 02/06/08

Client Sample ID: DewBurd BLK01

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
TOTAL METALS ANALYSES							
Cadmium	ND	mg/L		0.005		1 E200.8	02/19/08 17:20/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	02/19/08 17:20/eli-c
Copper	ND	mg/L		0.01		1 E200.8	02/19/08 17:20/eli-c
Iron	ND	mg/L		0.03		1 E200.7	02/20/08 20:33/eli-c
Lead	ND	mg/L		0.001		1 E200.8	02/19/08 17:20/eli-c
Manganese	ND	mg/L		0.01		1 E200.8	02/19/08 17:20/eli-c
Mercury	ND	mg/L		0.001		1 E200.8	02/19/08 17:20/eli-c
Molybdenum	ND	mg/L		0.01		1 E200.8	02/20/08 20:14/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	02/19/08 17:20/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	02/19/08 17:20/eli-c
Silver	ND	mg/L		0.005		1 E200.8	02/19/08 17:20/eli-c
Strontium	ND	mg/L		0.1		1 E200.8	02/19/08 17:20/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	02/19/08 17:20/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	02/19/08 17:20/eli-c
Zinc	ND	mg/L		0.01		1 E200.7	02/20/08 20:33/eli-c
DATA QUALITY							
A/C Balance (± 5)	100	%				1 A1030 E	05/01/08 14:40/krs
Anions	ND	meq/L				1 A1030 E	05/01/08 14:40/krs
Cations	0.00403	meq/L				1 A1030 E	05/01/08 14:40/krs

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/06/08 08:30

Lab ID: R08020052-008

Date Received: 02/06/08

Client Sample ID: DewBurd BLK01

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	02/19/08 15:51/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/19/08 15:51/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	02/19/08 15:51/sn
Calcium	ND	mg/L		0.5		1	E200.7	02/20/08 19:47/eli-c
Chloride	ND	mg/L		2		1	E300.0	02/07/08 07:20/sn
Fluoride	ND	mg/L		0.1		1	E300.0	02/07/08 07:20/sn
Magnesium	ND	mg/L		0.5		1	E200.7	02/20/08 19:47/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/11/08 17:40/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/07/08 07:20/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/07/08 07:20/sn
Potassium	ND	mg/L		0.5		1	E200.7	02/20/08 19:47/eli-c
Silica	ND	mg/L		0.5		1	E200.7	02/20/08 19:47/eli-c
Sodium	ND	mg/L	L	0.8		1	E200.7	02/20/08 19:47/eli-c
Sulfate	ND	mg/L		2		1	E300.0	02/07/08 07:20/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	02/08/08 15:58/jmh
Oxidation-Reduction Potential	310	mV				1	A2580 B	02/07/08 00:00/sn
pH	5.95	s.u.		0.01		1	A4500-H B	02/09/08 14:14/jmh
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	05/01/08 14:40/krs
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C	02/11/08 14:41/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	02/20/08 19:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/19/08 14:50/eli-c
Barium	ND	mg/L		0.1		1	E200.7	02/20/08 19:47/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/20/08 19:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 14:50/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 14:50/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 14:50/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/20/08 19:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 14:50/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	02/19/08 14:50/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 14:50/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/19/08 14:50/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 14:50/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/14/08 10:57/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 14:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/19/08 14:50/eli-c

Report Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.

QCL - Quality control limit.

ND - Not detected at the reporting limit.

L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020052-008
Client Sample ID: DewBurd BLK01

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11
Report Date: 05/13/08
Collection Date: 02/06/08 08:30
Date Received: 02/06/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/08 14:50/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/19/08 14:50/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 19:47/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 00:43/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/14/08 09:20/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/14/08 12:14/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	ND	pCi/L		1.0		1	E900.0	02/21/08 21:10/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	02/21/08 21:10/eli-c
Lead 210	3.1	pCi/L		1.0		1	E909.0M	02/13/08 11:30/eli-c
Lead 210 precision (±)	0.80	pCi/L				1	E909.0M	02/13/08 11:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/14/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/22/08 16:23/eli-c
Gross Gamma	110	pCi/L		20		1	E901.1	02/12/08 18:40/eli-c
Gross Gamma precision (±)	26	pCi/L				1	E901.1	02/12/08 18:40/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	3.0	pCi/L		1.0		1	E909.0M	02/19/08 07:00/eli-c
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	02/19/08 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/25/08 16:41/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/19/08 15:45/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	216	pCi/L	H	100		1	D5072-92	02/11/08 13:20/eli-c
Radon 222 precision (±)	87.1	pCi/L	H			1	D5072-92	02/11/08 13:20/eli-c
- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.								
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/19/08 17:20/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/19/08 17:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/20/08 20:14/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/20/08 20:14/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/20/08 20:33/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Collection Date: 02/06/08 08:30

Lab ID: R08020052-008

Date Received: 02/06/08

Client Sample ID: DewBurd BLK01

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
TOTAL METALS ANALYSES								
Cadmium	ND	mg/L		0.005		1	E200.8	02/19/08 17:20/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/19/08 17:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/19/08 17:20/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/20/08 20:33/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/19/08 17:20/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	02/19/08 17:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/19/08 17:20/eli-c
Molybdenum	ND	mg/L		0.01		1	E200.8	02/20/08 20:14/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/19/08 17:20/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/19/08 17:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/19/08 17:20/eli-c
Strontium	ND	mg/L		0.1		1	E200.8	02/19/08 17:20/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/19/08 17:20/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/08 17:20/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/20/08 20:33/eli-c
DATA QUALITY								
A/C Balance (± 5)	100	%				1	A1030 E	05/01/08 14:40/krs
Anions	ND	meq/L				1	A1030 E	05/01/08 14:40/krs
Cations	0.00403	meq/L				1	A1030 E	05/01/08 14:40/krs

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080219A-ALK-SEL-W		
Sample ID: MBLK1_080219A	Method Blank								
Alkalinity, Total as CaCO3	ND	mg/L	3						Run: PH_COND1-R_080219A 02/19/08 15:07
Sample ID: LCS1_080219A	Laboratory Control Sample								
Alkalinity, Total as CaCO3	1010	mg/L	5.0	101	90	110			Run: PH_COND1-R_080219A 02/19/08 15:09
Sample ID: R08020064-001BMS	Sample Matrix Spike								
Alkalinity, Total as CaCO3	280	mg/L	5.0	91	80	120			Run: PH_COND1-R_080219A 02/19/08 15:57
Sample ID: R08020064-001BMSD	Sample Matrix Spike Duplicate								
Alkalinity, Total as CaCO3	270	mg/L	5.0	89	80	120	0.7	20	Run: PH_COND1-R_080219A 02/19/08 15:58

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Batch: 080208_1_COND-PROBE-W		
Sample ID: LCS1-1_080208 Conductivity @ 25 C	Laboratory Control Sample 156	umhos/cm	5.0	104	90	110			02/08/08 15:42
Sample ID: LCS2-1_080208 Conductivity @ 25 C	Laboratory Control Sample 4950	umhos/cm	5.0	99	90	110			02/08/08 15:43
Sample ID: LCS_COND-1_080208 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			02/08/08 15:43
Sample ID: MBLK-1_080208 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						02/08/08 15:44
Sample ID: R08020052-006ADUP Conductivity @ 25 C	Sample Duplicate 5990	umhos/cm	5.0				0.0	10	02/08/08 15:57

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080211A-SLDS-TDS-W		
Sample ID: MBLK1_080211A	Method Blank					Run: BAL-4-R_080211A			02/11/08 14:08
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_080211A	Laboratory Control Sample					Run: BAL-4-R_080211A			02/11/08 14:09
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	104	90	110			
Sample ID: R08020052-002AMS	Sample Matrix Spike					Run: BAL-4-R_080211A			02/11/08 14:32
Solids, Total Dissolved TDS @ 180 C	6300	mg/L	5.0	107	80	120			
Sample ID: R08020052-002AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080211A			02/11/08 14:33
Solids, Total Dissolved TDS @ 180 C	6300	mg/L	5.0	103	80	120	0.1	10	
Sample ID: R08020065-001AMS	Sample Matrix Spike					Run: BAL-4-R_080211A			02/11/08 14:47
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	101	80	120			
Sample ID: R08020065-001AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080211A			02/11/08 14:48
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	112	80	120	2.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B									Batch: R33453
Sample ID: LCS_020408	Laboratory Control Sample				Run: PH_COND1-R_080204A				02/04/08 00:00
Oxidation-Reduction Potential	490	mV		102	95	105			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE-3114-021408		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	0.0002						Run: SUB-C96943 02/14/08 09:01
Sample ID: 288-30-5	Laboratory Control Sample								
Selenium-IV	0.049	mg/L	0.0010	98	90	110			Run: SUB-C96943 02/14/08 09:03
Sample ID: R08020052-001E	Sample Matrix Spike Duplicate								
Selenium-IV	0.045	mg/L	0.0010	90	85	115	2.5	10	Run: SUB-C96943 02/14/08 09:25
Sample ID: R08020052-001E	Sample Matrix Spike								
Selenium-IV	0.047	mg/L	0.0010	92	85	115			Run: SUB-C96943 02/14/08 09:27
Method: A3114 B							Batch: C_SE-3114-021408B		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	0.0003						Run: SUB-C96956 02/14/08 10:30
Sample ID: 288-30-5	Laboratory Control Sample								
Selenium	0.050	mg/L	0.0010	100	90	110			Run: SUB-C96956 02/14/08 10:36
Sample ID: R08020052-001E	Sample Matrix Spike								
Selenium	0.050	mg/L	0.0010	97	85	115			Run: SUB-C96956 02/14/08 11:03
Sample ID: R08020052-001E	Sample Matrix Spike Duplicate								
Selenium	0.049	mg/L	0.0010	95	85	115	2.0	10	Run: SUB-C96956 02/14/08 11:05
Method: A3114 B							Batch: C_R96957		
Sample ID: R08020052-001E	Sample Matrix Spike								
Selenium-VI	0.048	mg/L	0.0010	95	85	115			Run: SUB-C96957 02/14/08 12:14
Sample ID: R08020052-001E	Sample Matrix Spike Duplicate								
Selenium-VI	0.047	mg/L	0.0010	92	85	115	0.0	10	Run: SUB-C96957 02/14/08 12:14

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080209_1_PH-W		
Sample ID: LCS_pH-1_080209	Laboratory Control Sample					Run: PH_COND2-R_080209A			02/09/08 13:57
pH	6.96	s.u.	0.010	101	98.55	101.45			
Sample ID: R08020052-005ADUP	Sample Duplicate					Run: PH_COND2-R_080209A			02/09/08 14:08
pH	7.34	s.u.	0.010				0.0	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-02-11_2_NH3_01		
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	102	90	110			02/11/08 15:32
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	99	90	110			02/11/08 15:33
Sample ID: MBLK-5 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						02/11/08 15:34
Sample ID: R08020052-001BDUP Nitrogen, Ammonia as N	Sample Duplicate 0.27	mg/L	0.10				0.7	10	02/11/08 17:31
Sample ID: R08020052-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.54	mg/L	0.10	108	80	120			02/11/08 17:33
Sample ID: R08020074-002CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.69	mg/L	0.10	94	80	120			02/11/08 17:47

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92							Batch: C_R96832		
Sample ID: C08020237-001CDUP	Sample Duplicate					Run: SUB-C96832			02/11/08 13:20
Radon 222	531	pCi/L	100				20	30	
Sample ID: MB-R96832	Method Blank					Run: SUB-C96832			02/11/08 13:20
Radon 222	ND	pCi/L	100						
Sample ID: LCS-R96832	Laboratory Control Sample					Run: SUB-C96832			02/11/08 13:20
Radon 222	301	pCi/L	100	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_17769		
Sample ID: MB-17769	Method Blank			Run: SUB-C97172			02/20/08 13:20		
Barium	ND	mg/L	0.006						
Beryllium	ND	mg/L	0.002						
Boron	ND	mg/L	0.01						
Copper	0.007	mg/L	0.005						
Iron	ND	mg/L	0.009						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	ND	mg/L	0.001						
Sample ID: LCS-17769	Laboratory Control Sample			Run: SUB-C97172			02/20/08 13:30		
Barium	0.518	mg/L	0.10	104	85	115			
Beryllium	0.527	mg/L	0.010	105	85	115			
Boron	0.480	mg/L	0.10	96	85	115			
Copper	0.487	mg/L	0.010	97	85	115			
Iron	0.549	mg/L	0.030	110	85	115			
Molybdenum	0.503	mg/L	0.10	101	85	115			
Nickel	0.510	mg/L	0.050	102	85	115			
Strontium	0.518	mg/L	0.10	104	85	115			
Zinc	0.504	mg/L	0.010	101	85	115			
Sample ID: R08020052-001D	Sample Matrix Spike			Run: SUB-C97172			02/20/08 16:49		
Barium	9.60	mg/L	0.10	96	70	130			
Beryllium	9.84	mg/L	0.016	98	70	130			
Boron	9.79	mg/L	0.13	98	70	130			
Copper	9.21	mg/L	0.046	92	70	130			
Iron	9.70	mg/L	0.087	95	70	130			
Molybdenum	9.65	mg/L	0.10	97	70	130			
Nickel	9.54	mg/L	0.053	95	70	130			
Strontium	11.3	mg/L	0.10	98	70	130			
Zinc	9.58	mg/L	0.014	96	70	130			
Sample ID: R08020052-001D	Sample Matrix Spike Duplicate			Run: SUB-C97172			02/20/08 16:53		
Barium	9.86	mg/L	0.10	99	70	130	2.7	20	
Beryllium	9.95	mg/L	0.016	99	70	130	1.1	20	
Boron	10.3	mg/L	0.13	103	70	130	4.8	20	
Copper	9.51	mg/L	0.046	95	70	130	3.2	20	
Iron	9.87	mg/L	0.087	97	70	130	1.7	20	
Molybdenum	10.0	mg/L	0.10	100	70	130	3.7	20	
Nickel	9.69	mg/L	0.053	97	70	130	1.6	20	
Strontium	11.4	mg/L	0.10	99	70	130	0.6	20	
Zinc	9.83	mg/L	0.014	98	70	130	2.6	20	
Method: E200.7							Batch: C_R97172		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Report Date: 05/13/08

Work Order: R08020052

Client: RESPEC Inc

Project: Edgemont

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R97172		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C97172			02/20/08 12:35		
Silica	2.0	mg/L	0.10	101	85	125			
Aluminum	2.0	mg/L	0.10	101	85	125			
Barium	2.0	mg/L	0.10	102	85	125			
Boron	1.9	mg/L	0.10	97	85	125			
Iron	2.0	mg/L	0.030	100	85	125			
Zinc	2.0	mg/L	0.010	99	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C97172			02/20/08 12:38		
Calcium	25	mg/L	0.50	100	85	125			
Magnesium	25	mg/L	0.50	99	85	125			
Potassium	25	mg/L	0.50	100	85	125			
Sodium	24	mg/L	0.76	96	85	125			
Sample ID: LRB	Laboratory Reagent Blank			Run: SUB-C97172			02/20/08 12:45		
Silica	ND	mg/L	0.10		0	0			
Aluminum	ND	mg/L	0.10		0	0			
Barium	ND	mg/L	0.10		0	0			
Boron	0.023	mg/L	0.10		0	0			
Calcium	ND	mg/L	0.50		0	0			
Iron	0.0056	mg/L	0.030		0	0			
Magnesium	ND	mg/L	0.50		0	0			
Potassium	0.031	mg/L	0.50		0	0			
Sodium	ND	mg/L	0.76		0	0			
Zinc	ND	mg/L	0.010		0	0			
Sample ID: R08020052-001C	Sample Matrix Spike			Run: SUB-C97172			02/20/08 15:50		
Aluminum	9.63	mg/L	0.10	95	70	130			
Barium	9.50	mg/L	0.10	95	70	130			
Boron	9.57	mg/L	0.10	96	70	130			
Iron	9.25	mg/L	0.046	93	70	130			
Zinc	9.45	mg/L	0.022	95	70	130			
Calcium	500	mg/L	1.0	90	70	130			
Magnesium	468	mg/L	0.50	89	70	130			
Potassium	1110	mg/L	0.50	91	70	130			
Silica	15.9	mg/L	0.20	89	70	130			
Sodium	676	mg/L	7.6	91	70	130			
Sample ID: R08020052-001C	Sample Matrix Spike Duplicate			Run: SUB-C97172			02/20/08 15:54		
Aluminum	9.79	mg/L	0.10	97	70	130	1.6	20	
Barium	9.72	mg/L	0.10	97	70	130	2.3	20	
Boron	10.1	mg/L	0.10	101	70	130	5.4	20	
Iron	9.55	mg/L	0.046	95	70	130	3.2	20	
Zinc	9.73	mg/L	0.022	97	70	130	2.9	20	
Calcium	524	mg/L	1.0	95	70	130	4.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R97172		
Sample ID: R08020052-001C	Sample Matrix Spike Duplicate			Run: SUB-C97172			02/20/08 15:54		
Magnesium	486	mg/L	0.50	93	70	130	3.8	20	
Potassium	1110	mg/L	0.50	91	70	130	0.3	20	
Silica	16.3	mg/L	0.20	93	70	130	2.2	20	
Sodium	690	mg/L	7.6	94	70	130	2.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8 Batch: C_17769									
Sample ID: MB-17769	Method Blank			Run: SUB-C97099			02/19/08 15:42		
Antimony	0.0003	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Beryllium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	0.0002	mg/L	5E-05						
Molybdenum	0.0003	mg/L	0.0002						
Nickel	ND	mg/L	0.0006						
Selenium	0.0004	mg/L	0.0002						
Silver	ND	mg/L	0.0001						
Strontium	9E-05	mg/L	7E-05						
Thallium	ND	mg/L	5E-05						
Uranium	ND	mg/L	4E-05						
Sample ID: LCS1-17769 Run: SUB-C97099 02/19/08 15:50									
Laboratory Control Sample									
Antimony	0.0210	mg/L	0.050	103	80	120			
Arsenic	0.0189	mg/L	0.0010	95	80	120			
Barium	0.0221	mg/L	0.10	110	80	120			
Beryllium	0.0221	mg/L	0.010	110	80	120			
Cadmium	0.0195	mg/L	0.010	98	80	120			
Chromium	0.0196	mg/L	0.050	98	80	120			
Copper	0.0192	mg/L	0.010	96	80	120			
Lead	0.0198	mg/L	0.050	99	80	120			
Manganese	0.0198	mg/L	0.010	98	80	120			
Molybdenum	0.0171	mg/L	0.10	84	80	120			
Nickel	0.0190	mg/L	0.050	95	80	120			
Selenium	0.0967	mg/L	0.0010	96	80	120			
Silver	0.0184	mg/L	0.010	92	80	120			
Strontium	0.0106	mg/L	0.10	105	80	120			
Thallium	0.0196	mg/L	0.10	98	80	120			
Uranium	0.0190	mg/L	0.00030	95	80	120			
Sample ID: C08020433-002HMS4 Run: SUB-C97099 02/19/08 19:51									
Post Digestion Spike									
Antimony	0.0776	mg/L	0.050	111	70	130			
Arsenic	0.0736	mg/L	0.0010	103	70	130			
Barium	0.0940	mg/L	0.10	107	70	130			
Beryllium	0.0746	mg/L	0.010	107	70	130			
Cadmium	0.0677	mg/L	0.010	97	70	130			
Chromium	0.0660	mg/L	0.050	94	70	130			
Copper	0.0649	mg/L	0.010	90	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Report Date: 05/13/08

Work Order: R08020052

Client: RESPEC Inc

Project: Edgemont

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17769		
Sample ID: C08020433-002HMS4	Post Digestion Spike			Run: SUB-C97099			02/19/08 19:51		
Lead	0.0708	mg/L	0.050	100	70	130			
Manganese	0.0873	mg/L	0.010	91	70	130			
Molybdenum	0.0878	mg/L	0.10	101	70	130			
Nickel	0.0649	mg/L	0.050	93	70	130			
Selenium	0.169	mg/L	0.0010	100	70	130			
Silver	0.0207	mg/L	0.010	52	70	130			S
Strontium	1.14	mg/L	0.10		70	130			A
Thallium	0.0714	mg/L	0.10	102	70	130			
Uranium	0.0766	mg/L	0.00030	97	70	130			
Sample ID: C08020433-002HMSD4	Post Digestion Spike Duplicate			Run: SUB-C97099			02/19/08 19:58		
Antimony	0.0775	mg/L	0.050	111	70	130	0.2	20	
Arsenic	0.0732	mg/L	0.0010	103	70	130	0.4	20	
Barium	0.0953	mg/L	0.10	109	70	130	0.0	20	
Beryllium	0.0737	mg/L	0.010	105	70	130	1.3	20	
Cadmium	0.0684	mg/L	0.010	98	70	130	1.1	20	
Chromium	0.0673	mg/L	0.050	96	70	130	1.9	20	
Copper	0.0647	mg/L	0.010	90	70	130	0.3	20	
Lead	0.0706	mg/L	0.050	100	70	130	0.3	20	
Manganese	0.0870	mg/L	0.010	90	70	130	0.3	20	
Molybdenum	0.0854	mg/L	0.10	97	70	130	0.0	20	
Nickel	0.0640	mg/L	0.050	91	70	130	1.3	20	
Selenium	0.170	mg/L	0.0010	101	70	130	0.4	20	
Silver	0.0212	mg/L	0.010	53	70	130	2.3	20	S
Strontium	1.15	mg/L	0.10		70	130	1.1	20	A
Thallium	0.0705	mg/L	0.10	101	70	130	0.0	20	
Uranium	0.0752	mg/L	0.00030	95	70	130	1.8	20	
Method: E200.8							Batch: C_R97099		
Sample ID: LRB	Method Blank			Run: SUB-C97099			02/19/08 12:20		
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	0.0002						
Chromium	0.0001	mg/L	0.0001						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	3E-05						
Mercury	5E-05	mg/L	6E-06						
Molybdenum	0.0006	mg/L	7E-05						
Nickel	0.0002	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	6E-05	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97099		
Sample ID: LRB	Method Blank				Run: SUB-C97099		02/19/08 12:20		
Vanadium	ND	mg/L	9E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C97099		02/19/08 12:27		
Arsenic	0.0510	mg/L	0.0010	102	85	115			
Barium	0.0507	mg/L	0.0010	101	85	115			
Cadmium	0.0502	mg/L	0.0010	100	85	115			
Chromium	0.0518	mg/L	0.0010	103	85	115			
Copper	0.0508	mg/L	0.0010	102	85	115			
Lead	0.0509	mg/L	0.0010	102	85	115			
Manganese	0.0512	mg/L	0.0010	102	85	115			
Mercury	0.00508	mg/L	0.0010	101	85	115			
Molybdenum	0.0514	mg/L	0.0010	102	85	115			
Nickel	0.0521	mg/L	0.0010	104	85	115			
Silver	0.0228	mg/L	0.0010	114	85	115			
Thorium 232	0.0508	mg/L	0.0010	101	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			
Vanadium	0.0512	mg/L	0.0010	102	85	115			
Sample ID: R08020052-005C	Post Digestion Spike				Run: SUB-C97099		02/19/08 14:20		
Arsenic	0.0558	mg/L	0.0010	109	70	130			
Cadmium	0.0474	mg/L	0.010	95	70	130			
Chromium	0.0558	mg/L	0.050	110	70	130			
Copper	0.0512	mg/L	0.010	91	70	130			
Lead	0.0521	mg/L	0.050	104	70	130			
Manganese	2.38	mg/L	0.010		70	130			A
Mercury	0.00521	mg/L	0.0010	104	70	130			
Molybdenum	0.0670	mg/L	0.10	107	70	130			
Nickel	0.0565	mg/L	0.050	94	70	130			
Silver	0.0124	mg/L	0.010	62	70	130			S
Thorium 232	0.0556	mg/L	0.0010	111	70	130			
Uranium	0.0939	mg/L	0.00030	114	70	130			
Vanadium	0.0553	mg/L	0.10	104	70	130			
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: R08020052-005C	Post Digestion Spike Duplicate				Run: SUB-C97099		02/19/08 14:27		
Arsenic	0.0560	mg/L	0.0010	109	70	130	0.3	20	
Cadmium	0.0484	mg/L	0.010	97	70	130	2.0	20	
Chromium	0.0582	mg/L	0.050	115	70	130	4.2	20	
Copper	0.0508	mg/L	0.010	90	70	130	0.7	20	
Lead	0.0524	mg/L	0.050	105	70	130	0.4	20	
Manganese	2.61	mg/L	0.010		70	130	9.5	20	A
Mercury	0.00524	mg/L	0.0010	105	70	130	0.7	20	
Molybdenum	0.0692	mg/L	0.10	111	70	130	0.0	20	
Nickel	0.0561	mg/L	0.050	93	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97099		
Sample ID: R08020052-005C	Post Digestion Spike Duplicate			Run: SUB-C97099			02/19/08 14:27		
Silver	0.0122	mg/L	0.010	61	70	130	2.0	20	S
Thorium 232	0.0564	mg/L	0.0010	113	70	130	1.4	20	
Uranium	0.0945	mg/L	0.00030	115	70	130	0.6	20	
Vanadium	0.0564	mg/L	0.10	106	70	130	0.0	20	
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: C08020504-006AMS4	Post Digestion Spike			Run: SUB-C97099			02/19/08 21:21		
Arsenic	0.511	mg/L	0.0016	102	70	130			
Barium	9.87	mg/L	0.10		70	130			A
Cadmium	0.494	mg/L	0.010	99	70	130			
Chromium	0.498	mg/L	0.050	95	70	130			
Copper	0.469	mg/L	0.010	94	70	130			
Lead	0.516	mg/L	0.050	102	70	130			
Manganese	0.523	mg/L	0.010	95	70	130			
Mercury	0.0523	mg/L	0.0010	105	70	130			
Molybdenum	0.522	mg/L	0.10	104	70	130			
Nickel	0.469	mg/L	0.050	94	70	130			
Silver	0.113	mg/L	0.010	57	70	130			S
Thorium 232	0.519	mg/L	0.0010	104	70	130			
Uranium	0.520	mg/L	0.00035	104	70	130			
Vanadium	0.645	mg/L	0.10	100	70	130			
Sample ID: C08020504-006AMSD4	Post Digestion Spike Duplicate			Run: SUB-C97099			02/19/08 21:28		
Arsenic	0.505	mg/L	0.0016	100	70	130	1.2	20	
Barium	9.79	mg/L	0.10		70	130	0.8	20	A
Cadmium	0.471	mg/L	0.010	94	70	130	4.9	20	
Chromium	0.509	mg/L	0.050	98	70	130	2.1	20	
Copper	0.461	mg/L	0.010	92	70	130	1.8	20	
Lead	0.513	mg/L	0.050	102	70	130	0.6	20	
Manganese	0.528	mg/L	0.010	96	70	130	1.0	20	
Mercury	0.0537	mg/L	0.0010	107	70	130	2.7	20	
Molybdenum	0.525	mg/L	0.10	105	70	130	0.5	20	
Nickel	0.462	mg/L	0.050	92	70	130	1.5	20	
Silver	0.106	mg/L	0.010	53	70	130	7.0	20	S
Thorium 232	0.519	mg/L	0.0010	104	70	130	0.1	20	
Uranium	0.521	mg/L	0.00035	104	70	130	0.2	20	
Vanadium	0.642	mg/L	0.10	100	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17774		
Sample ID: R08020052-005I	Sample Matrix Spike								
Uranium	0.0115	mg/L	0.00030	89	70	130			02/21/08 00:10
Sample ID: R08020052-005I	Sample Matrix Spike Duplicate								
Uranium	0.0113	mg/L	0.00030	87	70	130	1.7	20	02/21/08 00:15
Sample ID: MB-17774	Method Blank								
Uranium	6E-05	mg/L							02/20/08 23:54
Sample ID: LCS1-17774	Laboratory Control Sample								
Uranium	0.0527	mg/L	0.00030	105	80	120			02/20/08 23:58
Method: E200.8							Batch: C_R97169		
Sample ID: LRB	Method Blank								
Uranium	ND	mg/L	1E-05						02/20/08 12:50
Sample ID: LFB	Laboratory Fortified Blank								
Uranium	0.0529	mg/L	0.00030	106	85	115			02/20/08 12:54
Sample ID: C08020056-001BMS	Sample Matrix Spike								
Uranium	0.059	mg/L	0.00030	113	70	130			02/20/08 14:57
Sample ID: C08020056-001BMSD	Sample Matrix Spike Duplicate								
Uranium	0.057	mg/L	0.00030	109	70	130	4.0	20	02/20/08 15:01

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17769		
Sample ID: LCS-17769	Laboratory Control Sample			Run: SUB-C99837			04/18/08 16:41		
Antimony	0.500	mg/L	0.050	100	85	115			
Arsenic	0.521	mg/L	0.0010	104	85	115			
Barium	0.490	mg/L	0.10	98	85	115			
Beryllium	0.531	mg/L	0.010	106	85	115			
Cadmium	0.523	mg/L	0.010	105	85	115			
Chromium	0.513	mg/L	0.050	103	85	115			
Copper	0.510	mg/L	0.010	102	85	115			
Lead	0.507	mg/L	0.050	101	85	115			
Manganese	0.509	mg/L	0.010	102	85	115			
Molybdenum	0.506	mg/L	0.10	101	85	115			
Nickel	0.518	mg/L	0.050	104	85	115			
Selenium	0.535	mg/L	0.0020	107	85	115			
Silver	0.200	mg/L	0.010	100	85	115			
Strontium	0.518	mg/L	0.10	104	85	115			
Thallium	0.514	mg/L	0.10	103	85	115			
Uranium	0.517	mg/L	0.00032	103	85	115			
Sample ID: C08020433-002HMS	Sample Matrix Spike			Run: SUB-C99837			04/18/08 17:21		
Antimony	0.517	mg/L	0.050	103	70	130			
Arsenic	0.535	mg/L	0.0010	107	70	130			
Barium	0.516	mg/L	0.10	99	70	130			
Beryllium	0.508	mg/L	0.010	102	70	130			
Cadmium	0.523	mg/L	0.010	105	70	130			
Chromium	0.531	mg/L	0.050	106	70	130			
Copper	0.517	mg/L	0.010	103	70	130			
Lead	0.510	mg/L	0.050	102	70	130			
Manganese	0.553	mg/L	0.010	105	70	130			
Molybdenum	0.531	mg/L	0.10	103	70	130			
Nickel	0.524	mg/L	0.050	104	70	130			
Selenium	0.545	mg/L	0.0020	105	70	130			
Strontium	1.59	mg/L	0.10	107	70	130			
Thallium	0.510	mg/L	0.10	102	70	130			
Uranium	0.525	mg/L	0.00032	103	70	130			
Sample ID: C08020433-002HMSD	Sample Matrix Spike Duplicate			Run: SUB-C99837			04/18/08 17:28		
Antimony	0.518	mg/L	0.050	103	70	130	0.1	20	
Arsenic	0.533	mg/L	0.0010	106	70	130	0.4	20	
Barium	0.519	mg/L	0.10	100	70	130	0.6	20	
Beryllium	0.488	mg/L	0.010	98	70	130	4.1	20	
Cadmium	0.524	mg/L	0.010	105	70	130	0.2	20	
Chromium	0.516	mg/L	0.050	103	70	130	3.0	20	
Copper	0.510	mg/L	0.010	102	70	130	1.4	20	
Lead	0.505	mg/L	0.050	101	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17769
Sample ID: C08020433-002HMSD	Sample Matrix Spike Duplicate								Run: SUB-C99837 04/18/08 17:28
Manganese	0.541	mg/L	0.010	103	70	130	2.1	20	
Molybdenum	0.536	mg/L	0.10	104	70	130	1.0	20	
Nickel	0.517	mg/L	0.050	103	70	130	1.2	20	
Selenium	0.538	mg/L	0.0020	104	70	130	1.4	20	
Strontium	1.59	mg/L	0.10	107	70	130	0.0	20	
Thallium	0.505	mg/L	0.10	101	70	130	1.0	20	
Uranium	0.522	mg/L	0.00032	103	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R33407		
Sample ID: R08020052-001AMS	Sample Matrix Spike			Run: DIONEX_080206A			02/07/08 03:13		
Chloride	251	mg/L	5.4	86	80	120			
Fluoride	96.7	mg/L	0.56	90	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	97	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120			
Sulfate	1130	mg/L	3.4	90	80	120			
Sample ID: R08020052-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080206A			02/07/08 03:28		
Chloride	249	mg/L	5.4	85	80	120	0.7	10	
Fluoride	97.4	mg/L	0.56	91	80	120	0.7	10	
Nitrogen, Nitrate as N	122	mg/L	1.3	98	80	120	0.2	10	
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120	0.3	10	
Sulfate	1120	mg/L	3.4	88	80	120	0.8	10	
Sample ID: R08020058-001AMS	Sample Matrix Spike			Run: DIONEX_080206A			02/07/08 08:21		
Chloride	8.88	mg/L	0.50	83	80	120			
Fluoride	2.39	mg/L	0.10	99	80	120			
Nitrogen, Nitrate as N	3.53	mg/L	0.10	106	80	120			
Nitrogen, Nitrite as N	2.81	mg/L	0.10	112	80	120			
Sulfate	26.8	mg/L	1.0	89	80	120			
Sample ID: R08020058-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080206A			02/07/08 08:37		
Chloride	8.73	mg/L	0.50	80	80	120	1.7	10	
Fluoride	2.38	mg/L	0.10	99	80	120	0.4	10	
Nitrogen, Nitrate as N	3.44	mg/L	0.10	102	80	120	2.6	10	
Nitrogen, Nitrite as N	2.73	mg/L	0.10	109	80	120	2.9	10	
Sulfate	26.3	mg/L	1.0	86	80	120	1.8	10	
Method: E300.0							Batch: R33410		
Sample ID: LFB0802075236-1	Laboratory Fortified Blank			Run: DIONEX_080207A			02/07/08 18:53		
Chloride	4.86	mg/L	0.50	97	90	110			
Sample ID: LFB0802075236-1	Laboratory Fortified Blank			Run: DIONEX_080207A			02/07/08 19:09		
Chloride	4.88	mg/L	0.50	98	90	110			
Sample ID: R08020044-003AMS	Sample Matrix Spike			Run: DIONEX_080207A			02/08/08 01:03		
Chloride	425	mg/L	5.4	82	80	120			
Sample ID: R08020044-003AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080207A			02/08/08 01:19		
Chloride	425	mg/L	5.4	82	80	120	0.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0432		
Sample ID: MB-GrAB-0432	Method Blank				Run: SUB-C100250			04/26/08 05:14	
Gross Alpha	2	pCi/L							
Gross Beta	0.3	pCi/L							U
Sample ID: UNAT-GrAB-0432	Laboratory Control Sample				Run: SUB-C100250			04/26/08 05:15	
Gross Alpha	260	pCi/L	107	70	130				
Sample ID: Cs137-GrAB-0432	Laboratory Control Sample				Run: SUB-C100250			04/26/08 05:14	
Gross Beta	88	pCi/L	93	70	130				
Sample ID: C08040522-001AMS	Sample Matrix Spike				Run: SUB-C100250			04/26/08 05:15	
Gross Alpha	250	pCi/L	98	70	130				
Sample ID: C08040522-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C100250			04/26/08 05:15	
Gross Alpha	250	pCi/L	101	70	130	2.8	14.8		
Sample ID: C08040522-001AMS	Sample Matrix Spike				Run: SUB-C100250			04/26/08 05:14	
Gross Beta	93	pCi/L	96	70	130				
Sample ID: C08040522-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C100250			04/26/08 05:14	
Gross Beta	94	pCi/L	97	70	130	0.5	16		
Method: E900.0							Batch: C_GrAB-0397		
Sample ID: MB-GrAB-0397	Method Blank				Run: SUB-C97233			02/21/08 08:44	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0397	Laboratory Control Sample				Run: SUB-C97233			02/21/08 08:44	
Gross Alpha	270	pCi/L	1.0	112	70	130			
Sample ID: Cs137-GrAB-0397	Laboratory Control Sample				Run: SUB-C97233			02/21/08 08:44	
Gross Beta	93	pCi/L	2.0	98	70	130			
Sample ID: C08011257-001AMS	Sample Matrix Spike				Run: SUB-C97233			02/21/08 08:44	
Gross Alpha	440	pCi/L	1.0	90	70	130			
Sample ID: C08011257-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97233			02/21/08 08:44	
Gross Alpha	370	pCi/L	1.0	75	70	130	19	30	
Sample ID: C08011257-001AMS	Sample Matrix Spike				Run: SUB-C97233			02/21/08 08:44	
Gross Beta	240	pCi/L	2.0	93	70	130			
Sample ID: C08011257-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97233			02/21/08 08:44	
Gross Beta	260	pCi/L	2.0	114	70	130	8.0	13.3	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R96978
Sample ID: MB-R96978	Method Blank								Run: SUB-C96978 02/12/08 18:40
Gross Gamma	ND	pCi/L	20						
Sample ID: LCS-R96978	Laboratory Control Sample								Run: SUB-C96978 02/12/08 18:40
Americium 241	710	pCi/L	20	87	70	130			
Cesium 137	1200	pCi/L	20	85	70	130			
Potassium 40	6900	pCi/L	20	103	70	130			
Sample ID: R08020052-008H	Sample Duplicate								Run: SUB-C96978 02/12/08 18:40
Gross Gamma	87	pCi/L	20				22	30	
Gross Gamma precision (±)	21	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 05/23/11

Client: RESPEC Inc

Report Date: 05/13/08

Project: Edgemont

Work Order: R08020052

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_RA226-2628
Sample ID: C08020423-001AMS Radium 226	Sample Matrix Spike 14	pCi/L	0.20	100	70	130			Run: SUB-C97305 02/22/08 22:24
Sample ID: C08020423-001AMSD Radium 226	Sample Matrix Spike Duplicate 12	pCi/L	0.20	87	70	130	12	24.3	Run: SUB-C97305 02/22/08 23:54
Sample ID: MB-RA226-2628 Radium 226	Method Blank ND	pCi/L	0.2						Run: SUB-C97305 02/23/08 04:25
Sample ID: LCS-RA226-2628 Radium 226	Laboratory Control Sample 13	pCi/L	0.20	99	70	130			Run: SUB-C97305 02/23/08 05:55
Method: E903.0									Batch: C_17774
Sample ID: R08020052-0011 Radium 226	Sample Matrix Spike 60	pCi/L	0.20	91	70	130			Run: SUB-C97404 02/25/08 03:07
Sample ID: R08020052-0011 Radium 226	Sample Matrix Spike Duplicate 64	pCi/L	0.20	97	70	130	6.3	26	Run: SUB-C97404 02/25/08 04:38
Sample ID: MB-17774 Radium 226	Method Blank ND	pCi/L	0.004						Run: SUB-C97404 02/25/08 18:12
Sample ID: LCS-17774 Radium 226	Laboratory Control Sample 12	pCi/L	0.20	95	70	130			Run: SUB-C97404 02/25/08 21:12

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC Project Name, PWS, Permit, Etc. Lower Tech Dairy Burleak Sample Origin: RESPEC EPA/State Compliance: Yes No

Report Mail Address: RESPEC Contact Name: Crystal M Hecking State: IL Sampler: (Please Print) Eric Krantz

Invoice Address: RESPEC Invoice Contact & Phone: 630-469-1100 Phone/Fax: 630-469-1100 Email: erik.krantz@respec.com Quote/Bottle Order: Quote/Bottle Order:

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA EDD/EDT (Electronic Data)

GSA POTW/MWTP State: _____ LEVEL IV NELAC Other: M-D-Y

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED		Comments:	Shipped by:
				Normal Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page		
'Dew Burd GW 5'	02-05-08	10:20	W	SEE ATTACHED		All GW	Receipt Temp: <u>2.8</u> °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
'Dew Burd GW 675'	02-05-08	12:04	W				
'Dew Burd GW 677'	02-05-08	13:39	W				
'Dew Burd GW 42'	02-05-08	14:10	W				
'Dew Burd GW 678'	02-05-08	15:39	W				
'Dew Burd GW 678'	02-05-08	15:45	W				
'Dew Burd GW 676'	02-05-08	16:57	W				
'Dew Burd BLK01'	2-6-09	8:30	W				

Number of Containers: _____ Sample Type: A W S V B Air Water Soils/Solids Other

Vegetation: _____ Prossay: _____ Other: _____

Received by (print): Crystal M Hecking Date/Time: 2/6/08 10:20

Received by (print): _____ Date/Time: _____

Received by Laboratory: Wing Larson Date/Time: 8/6/08

Sample Disposal: _____ Return to Client: _____ Lab Disposal: _____

Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete this service as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

Energy Laboratories Inc.

2821 Plant St
 Rapid City, SD 57702-
 (605) 342-1225

CHAIN-OF-CUSTODY RECORD

Custody Seal: Y N
 Intacted: Y N
 Signature Match: Y N

Shipped By: _____
 Receipt Temp: _____

Subcontractor:

ELI - Casper
 PO Box 3258
 Casper, WY 82602
 TEL: _____
 Acct #: _____

FAX: _____

Subcontractor's Client: RESPEC Inc

Shipped By: _____

Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests
R08020052-001C	Aqueous	02/05/08 10:20 A	500ML-P-F-HNO3	RAD-TH-ISO-W-SU
R08020052-001D	Aqueous	02/05/08 10:20 A	500ML-P-NF-HNO3	RAD-TH-ISO-W-D
R08020052-001E	Aqueous	02/05/08 10:20 A	500ML-P-F-HNO3	RAD-RN222-W
R08020052-001G	Aqueous	02/05/08 10:20 A	40ML-CG-VOA	RAD-RA226-W-SUS
R08020052-001H	Aqueous	02/05/08 10:20 A	1GAL-CUBE-F-HNO3	RAD-RA226-W-D
R08020052-001I	Aqueous	02/05/08 10:20 A	ZIPLOCK	RAD-PO210-W-SUS
R08020052-002C	Aqueous	02/05/08 12:05 P	500ML-P-F-HNO3	RAD-PO210-W-D
R08020052-002D	Aqueous	02/05/08 12:05 P	500ML-P-NF-HNO3	RAD-PB210-W-SUS
R08020052-002E	Aqueous	02/05/08 12:05 P	500ML-P-F-HNO3	RAD-PB210-W-D
R08020052-002G	Aqueous	02/05/08 12:05 P	40ML-CG-VOA	RAD-G-GAMMA-W-
R08020052-002H	Aqueous	02/05/08 12:05 P	1GAL-CUBE-F-HNO3	RAD-G-ALPHABET
R08020052-002I	Aqueous	02/05/08 12:05 P	ZIPLOCK	CVAA-SEVI-3114-W
R08020052-003C	Aqueous	02/05/08 01:39 P	500ML-P-F-HNO3	CVAA-SEIV-3114-W
R08020052-003D	Aqueous	02/05/08 01:39 P	500ML-P-NF-HNO3	CVAA-SE-3114-W-D
R08020052-003E	Aqueous	02/05/08 01:39 P	500ML-P-F-HNO3	200_7_8-W-T
R08020052-003G	Aqueous	02/05/08 01:39 P	40ML-CG-VOA	200_7_8-W-SUS
				200_7_8-W-D

Comments:

QC Level:

Received by:	Date/Time
Received by:	
Relinquished by:	

Energy Laboratories Inc.

2821 Plant St
 Rapid City, SD 57702-
 (605) 342-1225

CHAIN-OF-CUSTODY RECORD

Page 1 of 1
 06-Feb-08

Custody Seal: Y N
 Intacted: Y N
 Signature Match: Y N
 Shipped By: _____
 Receipt Temp: _____

Subcontractor: ELI - Casper
 PO Box 3258
 Casper, WY 82602
 TEL: _____
 Acct #: _____
 Subcontractor's Client: RESPEC Inc

Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests
R08020052-003H	Aqueous	02/05/08 01:39 P	1GAL-CUBE-F-HNO3	RAD-TH-ISO-W-SU
R08020052-003I	Aqueous	02/05/08 01:39 P	ZIPLOCK	RAD-TH-ISO-W-D
R08020052-004C	Aqueous	02/05/08 02:10 P	500ML-P-F-HNO3	RAD-RN222-W
R08020052-004D	Aqueous	02/05/08 02:10 P	500ML-P-NF-HNO3	RAD-RA228-W-SUS
R08020052-004E	Aqueous	02/05/08 02:10 P	500ML-P-F-HNO3	RAD-RA226-W-D
R08020052-004G	Aqueous	02/05/08 02:10 P	40ML-CG-VOA	RAD-PO210-W-SUS
R08020052-004H	Aqueous	02/05/08 02:10 P	1GAL-CUBE-F-HNO3	RAD-PO210-W-D
R08020052-004I	Aqueous	02/05/08 02:10 P	ZIPLOCK	RAD-PB210-W-SUS
R08020052-005C	Aqueous	02/05/08 03:39 P	500ML-P-F-HNO3	RAD-PB210-W-D
R08020052-005D	Aqueous	02/05/08 03:39 P	500ML-P-NF-HNO3	RAD-G-GAMMA-W-
R08020052-005E	Aqueous	02/05/08 03:39 P	500ML-P-F-HNO3	RAD-G-ALPHABET
R08020052-005G	Aqueous	02/05/08 03:39 P	40ML-CG-VOA	CVAA-SEVI-3114-W
R08020052-005H	Aqueous	02/05/08 03:39 P	1GAL-CUBE-F-HNO3	CVAA-SEIV-3114-W
R08020052-005I	Aqueous	02/05/08 03:39 P	ZIPLOCK	CVAA-SE-3114-W-D
R08020052-006C	Aqueous	02/05/08 03:45 P	500ML-P-F-HNO3	200_7_8-W-T
R08020052-006D	Aqueous	02/05/08 03:45 P	500ML-P-NF-HNO3	200_7_8-W-SUS
				200_7_8-W-D

Comments:

QC Level:

Relinquished by:

Relinquished by:

Received by:

Received by:

Date/Time

Date/Time

Energy Laboratories Inc.

2821 Plant St
 Rapid City, SD 57702
 (605) 342-1225

CHAIN-OF-CUSTODY RECORD

Page 1 of 1
 06-Feb-08

Custody Seal: Y N
 Intact: Y N
 Signature Match: Y N

Shipped By: _____
 Receipt Temp: _____

Subcontractor:

ELI - Casper
 PO Box 3258
 Casper, WY 82602
 TEL: _____
 Acct #: _____

FAX: _____

Subcontractor's Client: RESPEC Inc

Shipped By: _____

Requested Tests

Sample ID	Matrix	Collection Date	Bottle Type	200_7_8-W-D	200_7_8-W-SUS	200_7_8-W-T	CVAA-SE-3114-W-D	CVAA-SEIV-3114-W	CVAA-SEVI-3114-W	RAD-G-ALPHABET	RAD-G-GAMMA-W-	RAD-PB210-W-D	RAD-PB210-W-SUS	RAD-PO210-W-D	RAD-PO210-W-SUS	RAD-RA226-W-D	RAD-RA226-W-SUS	RAD-RN222-W	RAD-TH-ISO-W-D	RAD-TH-ISO-W-SU
R08020052-006E	Aqueous	02/05/08 03:45 P	500ML-P-F-HNO3				1	1												
R08020052-006G	Aqueous	02/05/08 03:45 P	40ML-CG-VOA																	
R08020052-006H	Aqueous	02/05/08 03:45 P	1GAL-CUBE-F-HNO3																	
R08020052-006I	Aqueous	02/05/08 03:45 P	ZIPLOCK																	
R08020052-007C	Aqueous	02/05/08 04:57 P	500ML-P-F-HNO3																	
R08020052-007D	Aqueous	02/05/08 04:57 P	500ML-P-NF-HNO3																	
R08020052-007E	Aqueous	02/05/08 04:57 P	500ML-P-F-HNO3																	
R08020052-007G	Aqueous	02/05/08 04:57 P	40ML-CG-VOA																	
R08020052-007H	Aqueous	02/05/08 04:57 P	1GAL-CUBE-F-HNO3																	
R08020052-007I	Aqueous	02/05/08 04:57 P	ZIPLOCK																	
R08020052-008C	Aqueous	02/06/08 08:30 A	500ML-P-F-HNO3																	
R08020052-008D	Aqueous	02/06/08 08:30 A	500ML-P-NF-HNO3																	
R08020052-008E	Aqueous	02/06/08 08:30 A	500ML-P-F-HNO3																	
R08020052-008G	Aqueous	02/06/08 08:30 A	40ML-CG-VOA																	
R08020052-008H	Aqueous	02/06/08 08:30 A	1GAL-CUBE-F-HNO3																	
R08020052-008I	Aqueous	02/06/08 08:30 A	ZIPLOCK																	

Comments:

QC Level:

Relinquished by:

Relinquished by:

Date/Time

Date/Time



ANALYTICAL SUMMARY REPORT

May 06, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08020082 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 2/11/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08020082-001	DewBurd GW635	02/10/08 14:55	02/11/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson
Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020082-001
 Client Sample ID: DewBurd GW635

Report Date: 05/06/08
 Collection Date: 02/10/08 14:55
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	120	mg/L		5			1	A2320 B	02/21/08 16:30/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	02/21/08 16:30/sn
Bicarbonate as HCO3	146	mg/L		5			1	A2320 B	02/21/08 16:30/sn
Calcium	132	mg/L		0.5			1	E200.7	02/26/08 23:17/eli-c
Chloride	26	mg/L		1			5	E300.0	02/14/08 16:28/sn
Fluoride	0.4	mg/L		0.1			1	E300.0	02/12/08 19:21/sn
Magnesium	52.3	mg/L		0.5			1	E200.7	02/26/08 23:17/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1			1	A4500-NH3 G	02/11/08 17:52/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	02/12/08 19:21/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	02/12/08 19:21/sn
Potassium	8.2	mg/L		0.5			1	E200.7	02/26/08 23:17/eli-c
Silica	10	mg/L		0.5			1	E200.7	02/26/08 23:17/eli-c
Sodium	515	mg/L	D	8			10	E200.7_8	02/26/08 14:21/eli-c
Sulfate	1470	mg/L	D	7			100	E300.0	02/14/08 16:13/sn
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2950	umhos/cm		5.0			1	A2510 B	02/16/08 15:23/jmh
Oxidation-Reduction Potential	129.4	mV					1	A2580 B	02/11/08 00:00/sn
pH	7.91	s.u.		0.01			1	A4500-H B	02/16/08 14:58/jmh
Sodium Adsorption Ratio (SAR)	9.6	unitless		0.10			1	Calculation	04/15/08 00:00/kl
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5			1	A2540 C	02/11/08 14:56/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	02/21/08 20:45/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	02/21/08 20:45/eli-c
Barium	ND	mg/L		0.1			1	E200.8	02/21/08 20:45/eli-c
Boron	0.5	mg/L		0.1			1	E200.7	02/26/08 23:17/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	02/21/08 20:45/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	02/21/08 20:45/eli-c
Copper	ND	mg/L		0.01			1	E200.8	02/21/08 20:45/eli-c
Iron	ND	mg/L		0.03			1	E200.7	02/26/08 23:17/eli-c
Lead	ND	mg/L		0.001			1	E200.8	02/21/08 20:45/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	02/21/08 20:45/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	02/21/08 20:45/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	02/21/08 20:45/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	02/21/08 20:45/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	02/19/08 11:49/eli-c
Silver	ND	mg/L		0.005			1	E200.8	02/22/08 18:18/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Page 1 of 3

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020082-001
 Client Sample ID: DewBurd GW635

Report Date: 05/06/08
 Collection Date: 02/10/08 14:55
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	02/21/08 20:45/eli-c
Uranium	0.0021	mg/L		0.0003		1	E200.8	02/21/08 20:45/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 20:45/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/21/08 20:45/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 22:09/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 09:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/19/08 12:26/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	14.8	pCi/L		1.0		1	E900.0	02/21/08 21:10/eli-c
Gross Alpha precision (±)	3.2	pCi/L				1	E900.0	02/21/08 21:10/eli-c
Gross Beta	10	pCi/L		2.0		1	E900.0	02/21/08 21:10/eli-c
Gross Beta precision (±)	5.5	pCi/L				1	E900.0	02/21/08 21:10/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	02/21/08 10:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/27/08 13:30/eli-c
Radium 226	1.3	pCi/L		0.2		1	E903.0	02/25/08 13:01/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/25/08 13:01/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/20/08 16:30/eli-c
Gross Gamma	91	pCi/L		20		1	E901.1	02/19/08 08:48/eli-c
Gross Gamma precision (±)	24	pCi/L				1	E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	02/20/08 10:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	0.6	pCi/L		0.2		1	E903.0	02/25/08 13:00/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	02/25/08 13:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	806	pCi/L		100		1	D5072-92	02/12/08 17:03/eli-c
Radon 222 precision (±)	56.8	pCi/L				1	D5072-92	02/12/08 17:03/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/21/08 03:07/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020082-001
 Client Sample ID: DewBurd GW635

Report Date: 05/06/08
 Collection Date: 02/10/08 14:55
 Date Received: 02/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Arsenic	ND	mg/L		0.001		1	E200.8	02/21/08 03:07/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 03:07/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/21/08 03:07/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	02/26/08 23:20/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 03:07/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 03:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 03:07/eli-c
Iron	1.11	mg/L		0.03		1	E200.7	02/26/08 23:20/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 03:07/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	02/21/08 03:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 03:07/eli-c
Molybdenum	0.01	mg/L		0.01		1	E200.8	02/21/08 03:07/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 03:07/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/21/08 03:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 03:07/eli-c
Strontium	4.2	mg/L		0.1		1	E200.8	02/21/08 03:07/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/21/08 03:07/eli-c
Uranium	0.0021	mg/L		0.0003		1	E200.8	02/21/08 03:07/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/26/08 23:20/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.25					1	A1030 E	04/15/08 00:00/kl
Anions	33.7	meq/L				1	A1030 E	04/15/08 00:00/kl
Cations	33.5	meq/L				1	A1030 E	04/15/08 00:00/kl
Solids, Total Dissolved Calculated	2270	mg/L				1	A1030 E	04/15/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.03					1	A1030 E	04/15/08 00:00/kl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/06/08
 Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080221A-ALK-SEL-W		
Sample ID: MBLK1_080221A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						
						Run: PH_COND1-R_080221A			02/21/08 16:26
Sample ID: LCS1_080221A Alkalinity, Total as CaCO3	Laboratory Control Sample 1010	mg/L	5.0	101	90	110			02/21/08 16:28
						Run: PH_COND1-R_080221A			02/21/08 16:57
Sample ID: R08020143-002BMS Alkalinity, Total as CaCO3	Sample Matrix Spike 380	mg/L	5.0	96	80	120			02/21/08 17:00
						Run: PH_COND1-R_080221A	0.0	20	
Sample ID: R08020143-002BMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 380	mg/L	5.0	96	80	120			
Method: A2510 B							Batch: 080216_1_COND-PROBE-W		
Sample ID: LCS1-1_080216 Conductivity @ 25 C	Laboratory Control Sample 154	umhos/cm	5.0	103	90	110			02/16/08 15:21
						Run: PH_COND2-R_080216A			02/16/08 15:21
Sample ID: LCS2-1_080216 Conductivity @ 25 C	Laboratory Control Sample 5060	umhos/cm	5.0	101	90	110			02/16/08 15:22
						Run: PH_COND2-R_080216A			02/16/08 15:22
Sample ID: LCS_COND-1_080216 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			02/16/08 15:22
						Run: PH_COND2-R_080216A			02/16/08 15:22
Sample ID: MBLK-1_080216 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						02/16/08 15:23
						Run: PH_COND2-R_080216A			02/16/08 15:23
Sample ID: R08020082-001ADUP Conductivity @ 25 C	Sample Duplicate 2980	umhos/cm	5.0				1.0	10	
Method: A2540 C							Batch: 080211A-SLDS-TDS-W		
Sample ID: MBLK1_080211A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						02/11/08 14:08
						Run: BAL-4-R_080211A			02/11/08 14:09
Sample ID: LCS1_080211A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	104	90	110			02/11/08 14:47
						Run: BAL-4-R_080211A			02/11/08 14:48
Sample ID: R08020065-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1000	mg/L	5.0	101	80	120			02/11/08 14:48
						Run: BAL-4-R_080211A	2.1	10	
Sample ID: R08020065-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1000	mg/L	5.0	112	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: R33555		
Sample ID: LCS_021108	Laboratory Control Sample				Run: PH_COND1-R_080211A		02/11/08 00:00		
Oxidation-Reduction Potential	480	mV		102	95	105			
Method: A3114 B							Batch: C_R97081		
Sample ID: C08020402-001EMS	Sample Matrix Spike				Run: SUB-C97081		02/19/08 12:26		
Selenium-VI	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C97081		02/19/08 12:26		
Selenium-VI	0.050	mg/L	0.0010	99	85	115	3.9	10	
Method: A3114 B							Batch: C_SE3114-080219		
Sample ID: MBLK	Method Blank				Run: SUB-C97079		02/19/08 11:44		
Selenium	ND	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample				Run: SUB-C97079		02/19/08 11:47		
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: C08020402-001EMS	Sample Matrix Spike				Run: SUB-C97079		02/19/08 12:10		
Selenium	0.048	mg/L	0.0010	96	85	115			
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C97079		02/19/08 12:12		
Selenium	0.050	mg/L	0.0010	99	85	115	3.9	10	
Method: A3114 B							Batch: C_SEIV3114-080219		
Sample ID: MBLK	Method Blank				Run: SUB-C97072		02/19/08 09:27		
Selenium-IV	0.003	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample				Run: SUB-C97072		02/19/08 09:43		
Selenium-IV	0.051	mg/L	0.0010	102	90	110			
Sample ID: C08020402-001EMS	Sample Matrix Spike				Run: SUB-C97072		02/19/08 10:20		
Selenium-IV	0.089	mg/L	0.0010	177	85	115			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C97072		02/19/08 10:22		
Selenium-IV	0.085	mg/L	0.0010	169	85	115	5.0	10	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/06/08
 Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080216_1_PH-W		
Sample ID: LCS_pH-1_080216 pH	Laboratory Control Sample 6.93	s.u.	0.010	101	98.55	101.45			02/16/08 14:56
Sample ID: R08020082-001ADUP pH	Sample Duplicate 7.91	s.u.	0.010				0.0	1.25	02/16/08 14:58
Method: A4500-NH3 G							Batch: A2008-02-11_2_NH3_01		
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	102	90	110			02/11/08 15:32
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	99	90	110			02/11/08 15:33
Sample ID: MBLK-5 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						02/11/08 15:34
Sample ID: R08020074-002CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.69	mg/L	0.10	94	80	120			02/11/08 17:47
Method: D5072-92							Batch: C_R96916		
Sample ID: C08020427-001IDUP Radon 222	Sample Duplicate 307	pCi/L	100				8.9	30	02/12/08 17:03
Sample ID: MB-R96916 Radon 222	Method Blank ND	pCi/L	100						02/12/08 17:03
Sample ID: LCS-R96916 Radon 222	Laboratory Control Sample 301	pCi/L	100	99	70	130			02/12/08 17:03

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_17796		
Sample ID: MB-17796	Method Blank				Run: SUB-C97399		02/26/08 12:13		
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	0.002	mg/L	0.001						
Sample ID: LCS-17796	Laboratory Control Sample				Run: SUB-C97399		02/26/08 12:30		
Boron	0.514	mg/L	0.10	103	85	115			
Iron	0.528	mg/L	0.030	106	85	115			
Zinc	0.528	mg/L	0.010	106	85	115			
Sample ID: LCS-17796	Laboratory Control Sample				Run: SUB-C97440		02/27/08 15:39		
Boron	0.550	mg/L	0.10	110	85	115			
Iron	0.554	mg/L	0.030	111	85	115			
Zinc	0.561	mg/L	0.010	112	85	115			
Sample ID: C08020547-001BMS	Sample Matrix Spike				Run: SUB-C97440		02/27/08 18:27		
Boron	9.95	mg/L	0.13	98	70	130			
Iron	9.57	mg/L	0.087	94	70	130			
Zinc	9.71	mg/L	0.014	97	70	130			
Sample ID: C08020547-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C97440		02/27/08 18:30		
Boron	10.3	mg/L	0.13	101	70	130	3.6	20	
Iron	9.80	mg/L	0.087	97	70	130	2.4	20	
Zinc	9.90	mg/L	0.014	99	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R97399		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C97399			02/26/08 10:20		
Silica	1.9	mg/L	0.10	97	85	125			
Boron	1.9	mg/L	0.10	95	85	125			
Iron	1.9	mg/L	0.030	97	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C97399			02/26/08 10:23		
Calcium	25	mg/L	0.50	99	85	125			
Magnesium	24	mg/L	0.50	97	85	125			
Potassium	25	mg/L	0.50	99	85	125			
Sodium	24	mg/L	0.76	95	85	125			
Sample ID: LRB	Laboratory Reagent Blank			Run: SUB-C97399			02/26/08 10:30		
Silica	ND	mg/L	0.10						
Boron	0.012	mg/L	0.10						
Calcium	ND	mg/L	0.50						
Iron	ND	mg/L	0.030						
Magnesium	ND	mg/L	0.50						
Potassium	0.062	mg/L	0.50						
Sodium	ND	mg/L	0.76						
Sample ID: C08020245-001DMS	Sample Matrix Spike			Run: SUB-C97399			02/26/08 13:03		
Boron	205	mg/L	1.7	99	70	130			
Iron	192	mg/L	0.93	96	70	130			
Calcium	9180	mg/L	21	92	70	130			
Magnesium	9450	mg/L	7.3	90	70	130			
Potassium	21900	mg/L	4.5	91	70	130			
Silica	284	mg/L	4.0	97	70	130			
Sodium	33200	mg/L	150	65	70	130			S
Sample ID: C08020245-001DMSD	Sample Matrix Spike Duplicate			Run: SUB-C97399			02/26/08 13:06		
Boron	208	mg/L	1.7	101	70	130	1.5	20	
Iron	193	mg/L	0.93	97	70	130	0.6	20	
Calcium	8970	mg/L	21	90	70	130	2.3	20	
Magnesium	9400	mg/L	7.3	89	70	130	0.5	20	
Potassium	22000	mg/L	4.5	91	70	130	0.2	20	
Silica	281	mg/L	4.0	95	70	130	1.3	20	
Sodium	33200	mg/L	150	66	70	130	0.1	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17792
Sample ID: MB-17792	Method Blank								02/21/08 21:54
Uranium	ND	mg/L	1E-06						
Sample ID: LCS1-17792	Laboratory Control Sample								02/21/08 22:01
Uranium	0.0534	mg/L	0.00030	101	80	120			
Sample ID: R08020083-003K	Post Digestion Spike								02/21/08 23:45
Uranium	0.0251	mg/L	0.00030	100	70	130			
Sample ID: R08020083-003K	Post Digestion Spike Duplicate								02/21/08 23:53
Uranium	0.0248	mg/L	0.00030	99	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/06/08
 Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: R08020083-003B	Post Digestion Spike			Run: SUB-C97150			02/21/08 06:08		
Antimony	0.251	mg/L	0.050	100	70	130			
Arsenic	0.250	mg/L	0.0010	100	70	130			
Barium	0.252	mg/L	0.10	95	70	130			
Beryllium	0.202	mg/L	0.010	81	70	130			
Cadmium	0.248	mg/L	0.010	99	70	130			
Chromium	0.252	mg/L	0.050	101	70	130			
Copper	0.255	mg/L	0.010	100	70	130			
Lead	0.252	mg/L	0.050	101	70	130			
Manganese	0.302	mg/L	0.010	106	70	130			
Molybdenum	0.282	mg/L	0.10	112	70	130			
Nickel	0.264	mg/L	0.050	101	70	130			
Selenium	0.238	mg/L	0.0011	93	70	130			
Silver	0.0830	mg/L	0.010	83	70	130			
Strontium	8.15	mg/L	0.10		70	130			A
Thallium	0.254	mg/L	0.10	102	70	130			
Uranium	0.402	mg/L	0.00030	94	70	130			
Sample ID: R08020083-003B	Post Digestion Spike Duplicate			Run: SUB-C97150			02/21/08 06:16		
Antimony	0.262	mg/L	0.050	105	70	130	4.3	20	
Arsenic	0.253	mg/L	0.0010	101	70	130	1.2	20	
Barium	0.253	mg/L	0.10	95	70	130	0.4	20	
Beryllium	0.201	mg/L	0.010	81	70	130	0.1	20	
Cadmium	0.251	mg/L	0.010	100	70	130	1.1	20	
Chromium	0.252	mg/L	0.050	101	70	130	0.1	20	
Copper	0.251	mg/L	0.010	99	70	130	1.4	20	
Lead	0.253	mg/L	0.050	101	70	130	0.5	20	
Manganese	0.295	mg/L	0.010	103	70	130	2.4	20	
Molybdenum	0.278	mg/L	0.10	110	70	130	1.6	20	
Nickel	0.269	mg/L	0.050	103	70	130	1.7	20	
Selenium	0.240	mg/L	0.0011	94	70	130	0.6	20	
Silver	0.107	mg/L	0.010	107	70	130	26	20	R
Strontium	7.93	mg/L	0.10		70	130	2.7	20	A
Thallium	0.254	mg/L	0.10	102	70	130	0.0	20	
Uranium	0.406	mg/L	0.00030	95	70	130	1.0	20	
Sample ID: MB-17796	Method Blank			Run: SUB-C97150			02/21/08 02:45		
Antimony	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Beryllium	ND	mg/L	7E-05						
Cadmium	ND	mg/L	0.0004						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/06/08
 Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: MB-17796	Method Blank		Run: SUB-C97150				02/21/08 02:45		
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						
Mercury	9E-05	mg/L	3E-05						
Molybdenum	0.001	mg/L	0.0002						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0001						
Strontium	ND	mg/L	7E-05						
Thallium	ND	mg/L	5E-05						
Uranium	0.0004	mg/L	4E-05						
Sample ID: LCS-17796	Laboratory Control Sample		Run: SUB-C97150				02/21/08 03:00		
Antimony	0.0484	mg/L	0.050	97	85	115			
Arsenic	0.0492	mg/L	0.0010	98	85	115			
Barium	0.0487	mg/L	0.10	97	85	115			
Beryllium	0.0492	mg/L	0.010	98	85	115			
Cadmium	0.0492	mg/L	0.010	98	85	115			
Chromium	0.0490	mg/L	0.050	98	85	115			
Copper	0.0488	mg/L	0.010	98	85	115			
Lead	0.0492	mg/L	0.050	98	85	115			
Manganese	0.0480	mg/L	0.010	96	85	115			
Molybdenum	0.0509	mg/L	0.10	99	85	115			
Nickel	0.0501	mg/L	0.050	100	85	115			
Selenium	0.0485	mg/L	0.0010	97	85	115			
Silver	0.0218	mg/L	0.010	109	85	115			
Strontium	0.0475	mg/L	0.10	95	85	115			
Thallium	0.0495	mg/L	0.10	99	85	115			
Uranium	0.0479	mg/L	0.00030	95	85	115			
Sample ID: MB-17796	Method Blank		Run: SUB-C97226				02/21/08 20:25		
Antimony	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Beryllium	ND	mg/L	7E-05						
Cadmium	ND	mg/L	0.0002						
Chromium	ND	mg/L	0.0003						
Copper	ND	mg/L	8E-05						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: MB-17796	Method Blank		Run: SUB-C97226			02/21/08 20:25			
Molybdenum	ND	mg/L	0.0002						
Nickel	8E-05	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Strontium	9E-05	mg/L	7E-05						
Thallium	ND	mg/L	5E-05						
Uranium	ND	mg/L	4E-05						
Sample ID: LCS1-17796							02/21/08 20:32		
	Laboratory Control Sample		Run: SUB-C97226						
Antimony	0.0195	mg/L	0.050	97	80	120			
Arsenic	0.0197	mg/L	0.0010	99	80	120			
Barium	0.0206	mg/L	0.10	103	80	120			
Beryllium	0.0202	mg/L	0.010	101	80	120			
Cadmium	0.0209	mg/L	0.010	104	80	120			
Chromium	0.0187	mg/L	0.050	93	80	120			
Copper	0.0197	mg/L	0.010	98	80	120			
Lead	0.0204	mg/L	0.050	102	80	120			
Manganese	0.0192	mg/L	0.010	96	80	120			
Molybdenum	0.0216	mg/L	0.10	108	80	120			
Nickel	0.0194	mg/L	0.050	97	80	120			
Selenium	0.101	mg/L	0.0010	101	80	120			
Strontium	0.0105	mg/L	0.10	105	80	120			
Thallium	0.0202	mg/L	0.10	101	80	120			
Uranium	0.0197	mg/L	0.00030	98	80	120			
Sample ID: LCS-17796							02/21/08 20:39		
	Laboratory Control Sample		Run: SUB-C97226						
Antimony	0.0502	mg/L	0.050	100	85	115			
Arsenic	0.0518	mg/L	0.0010	104	85	115			
Barium	0.0520	mg/L	0.10	104	85	115			
Beryllium	0.0522	mg/L	0.010	104	85	115			
Cadmium	0.0526	mg/L	0.010	105	85	115			
Chromium	0.0509	mg/L	0.050	102	85	115			
Copper	0.0494	mg/L	0.010	99	85	115			
Lead	0.0522	mg/L	0.050	104	85	115			
Manganese	0.0505	mg/L	0.010	101	85	115			
Molybdenum	0.0534	mg/L	0.10	107	85	115			
Nickel	0.0496	mg/L	0.050	99	85	115			
Selenium	0.0509	mg/L	0.0010	102	85	115			
Strontium	0.0518	mg/L	0.10	104	85	115			
Thallium	0.0523	mg/L	0.10	105	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: R08020083-003B	Post Digestion Spike			Run: SUB-C97226			02/21/08 21:39		
Antimony	0.268	mg/L	0.050	107	70	130			
Arsenic	0.265	mg/L	0.0010	106	70	130			
Barium	0.273	mg/L	0.10	103	70	130			
Beryllium	0.201	mg/L	0.010	80	70	130			
Cadmium	0.256	mg/L	0.010	102	70	130			
Copper	0.254	mg/L	0.010	99	70	130			
Lead	0.264	mg/L	0.050	106	70	130			
Nickel	0.270	mg/L	0.050	100	70	130			
Selenium	0.269	mg/L	0.0011	104	70	130			
Silver	0.0875	mg/L	0.010	88	70	130			
Strontium	9.41	mg/L	0.10		70	130			A
Thallium	0.267	mg/L	0.10	107	70	130			
Uranium	0.439	mg/L	0.00030	106	70	130			

- Matrix spike recoveries outside the acceptance range are considered matrix-related.

Sample ID: R08020083-003B	Post Digestion Spike Duplicate			Run: SUB-C97226			02/21/08 21:46		
Antimony	0.266	mg/L	0.050	106	70	130	1.0	20	
Arsenic	0.268	mg/L	0.0010	107	70	130	1.1	20	
Barium	0.273	mg/L	0.10	103	70	130	0.1	20	
Beryllium	0.210	mg/L	0.010	84	70	130	4.4	20	
Cadmium	0.263	mg/L	0.010	105	70	130	2.7	20	
Copper	0.254	mg/L	0.010	100	70	130	0.1	20	
Lead	0.265	mg/L	0.050	106	70	130	0.2	20	
Nickel	0.265	mg/L	0.050	98	70	130	1.7	20	
Selenium	0.274	mg/L	0.0011	106	70	130	1.8	20	
Silver	0.107	mg/L	0.010	107	70	130	20	20	R
Strontium	9.41	mg/L	0.10		70	130	0.0	20	A
Thallium	0.267	mg/L	0.10	107	70	130	0.2	20	
Uranium	0.431	mg/L	0.00030	103	70	130	2.0	20	

- Matrix spike recoveries outside the acceptance range are considered matrix-related.

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/06/08
 Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97199		
Sample ID: CCB	Method Blank		Run: SUB-C97199			02/21/08 13:16			
Aluminum	0.0003	mg/L	0.0001						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	8E-05						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	6E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	4E-05						
Mercury	ND	mg/L	4E-05						
Molybdenum	ND	mg/L							
Nickel	ND	mg/L	5E-05						
Thorium 232	ND	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	ND	mg/L	0.0001						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C97199			02/21/08 13:36			
Aluminum	0.0520	mg/L	0.0010	103	85	115			
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Barium	0.0546	mg/L	0.0010	109	85	115			
Cadmium	0.0540	mg/L	0.0010	108	85	115			
Chromium	0.0523	mg/L	0.0010	105	85	115			
Copper	0.0526	mg/L	0.0010	105	85	115			
Lead	0.0519	mg/L	0.0010	104	85	115			
Manganese	0.0511	mg/L	0.0010	102	85	115			
Mercury	0.00510	mg/L	0.0010	102	85	115			
Molybdenum	0.0551	mg/L	0.0010	110	85	115			
Nickel	0.0517	mg/L	0.0010	103	85	115			
Thorium 232	0.0519	mg/L	0.0010	104	85	115			
Uranium	0.0513	mg/L	0.00030	103	85	115			
Vanadium	0.0526	mg/L	0.0010	105	85	115			
Zinc	0.0565	mg/L	0.0010	113	85	115			
Sample ID: R08020083-002A	Sample Matrix Spike		Run: SUB-C97199			02/21/08 21:39			
Aluminum	102	mg/L	0.10		70	130			A
Arsenic	0.0550	mg/L	0.0010	101	70	130			
Barium	0.0567	mg/L	0.10	106	70	130			
Cadmium	0.0822	mg/L	0.010	91	70	130			
Chromium	0.0406	mg/L	0.050	55	70	130			S
Copper	0.178	mg/L	0.010	90	70	130			
Lead	0.0528	mg/L	0.050	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97199		
Sample ID: R08020083-002A	Sample Matrix Spike			Run: SUB-C97199			02/21/08 21:39		
Manganese	162	mg/L	0.010		70	130			A
Mercury	0.00485	mg/L	0.0010	97	70	130			
Molybdenum	0.0530	mg/L	0.10	106	70	130			
Nickel	6.31	mg/L	0.050		70	130			A
Thorium 232	0.0665	mg/L	0.0010	107	70	130			
Uranium	7.81	mg/L	0.00030		70	130			A
Vanadium	0.0289	mg/L	0.10	57	70	130			S
Zinc	6.36	mg/L	0.010		70	130			A
Method: E200.8							Batch: C_R97313		
Sample ID: LRB	Method Blank			Run: SUB-C97313			02/22/08 14:40		
Silver	0.0005	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C97313			02/22/08 16:36		
Silver	0.0196	mg/L	0.0010	95	85	115			
Sample ID: R08020083-002A	Post Digestion Spike			Run: SUB-C97313			02/22/08 17:57		
Silver	0.0166	mg/L	0.010	83	70	130			
Sample ID: R08020083-002A	Post Digestion Spike Duplicate			Run: SUB-C97313			02/22/08 18:04		
Silver	0.0149	mg/L	0.010	74	70	130	11	20	
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C97313			02/22/08 14:46		
Silver	0.0153	mg/L	0.0010	74	85	115			S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R33470		
Sample ID: LFB0802125708-1	Laboratory Fortified Blank			Run: DIONEX_080212A			02/12/08 18:04		
Fluoride	1.76	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.22	mg/L	0.10	99	90	110			
Nitrogen, Nitrite as N	2.19	mg/L	0.10	97	90	110			
Sample ID: LFB0802125708-1	Laboratory Fortified Blank			Run: DIONEX_080212A			02/12/08 18:20		
Fluoride	1.70	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.24	mg/L	0.10	100	90	110			
Nitrogen, Nitrite as N	2.20	mg/L	0.10	98	90	110			
Sample ID: R08020082-001AMS	Sample Matrix Spike			Run: DIONEX_080212A			02/12/08 18:50		
Fluoride	89.3	mg/L	0.56	89	80	120			
Nitrogen, Nitrate as N	104	mg/L	1.3	83	80	120			
Nitrogen, Nitrite as N	95.4	mg/L	2.9	76	80	120			S
Sample ID: R08020082-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080212A			02/12/08 19:06		
Fluoride	88.8	mg/L	0.56	89	80	120	0.6	10	
Nitrogen, Nitrate as N	101	mg/L	1.3	81	80	120	2.6	10	
Nitrogen, Nitrite as N	99.4	mg/L	2.9	80	80	120	4.1	10	
Method: E300.0							Batch: R33510		
Sample ID: LFB0802130124-1	Laboratory Fortified Blank			Run: DIONEX_080214A			02/14/08 15:42		
Chloride	5.60	mg/L	0.50	112	90	110			S
Sulfate	14.9	mg/L	1.0	99	90	110			
Sample ID: LFB0802130124-1	Laboratory Fortified Blank			Run: DIONEX_080214A			02/14/08 15:57		
Chloride	5.29	mg/L	0.50	106	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0397		
Sample ID: MB-GrAB-0397	Method Blank				Run: SUB-C97233				02/21/08 08:44
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0397	Laboratory Control Sample				Run: SUB-C97233				02/21/08 08:44
Gross Alpha	270	pCi/L	1.0	112	70	130			
Sample ID: Cs137-GrAB-0397	Laboratory Control Sample				Run: SUB-C97233				02/21/08 08:44
Gross Beta	93	pCi/L	2.0	98	70	130			
Sample ID: C08011257-001AMS	Sample Matrix Spike				Run: SUB-C97233				02/21/08 08:44
Gross Alpha	440	pCi/L	1.0	90	70	130			
Sample ID: C08011257-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97233				02/21/08 08:44
Gross Alpha	370	pCi/L	1.0	75	70	130	19	30	
Sample ID: C08011257-001AMS	Sample Matrix Spike				Run: SUB-C97233				02/21/08 08:44
Gross Beta	240	pCi/L	2.0	93	70	130			
Sample ID: C08011257-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97233				02/21/08 08:44
Gross Beta	260	pCi/L	2.0	114	70	130	8.0	13.3	
Method: E901.1							Batch: C_R97137		
Sample ID: LCS-R97137	Laboratory Control Sample				Run: SUB-C97137				02/19/08 08:48
Americium 241	720	pCi/L	20	88	70	130			
Cesium 137	1200	pCi/L	20	82	70	130			
Potassium 40	7400	pCi/L	20	111	70	130			
Sample ID: MB-R97137	Method Blank				Run: SUB-C97137				02/19/08 08:48
Gross Gamma	ND	pCi/L	20						
Sample ID: R08020083-003I	Sample Duplicate				Run: SUB-C97137				02/19/08 08:48
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2633		
Sample ID: R08020083-003K Radium 226	Sample Matrix Spike 120 pCi/L		0.20	95	70	130			02/25/08 14:45
Sample ID: R08020083-003K Radium 226	Sample Matrix Spike Duplicate 120 pCi/L		0.20	92	70	130	2.6	24.9	02/25/08 14:45
Sample ID: LCS-17792 Radium 226	Laboratory Control Sample 12 pCi/L		0.20	95	70	130			02/25/08 14:45
Sample ID: MB-17792 Radium 226	Method Blank ND pCi/L		0.2						02/25/08 14:45
Method: E903.0							Batch: C_RA226-2636		
Sample ID: C08020433-002AMS Radium 226	Sample Matrix Spike 8.3 pCi/L		0.20	96	70	130			02/25/08 14:46
Sample ID: C08020433-002AMSD Radium 226	Sample Matrix Spike Duplicate 7.8 pCi/L		0.20	90	70	130	6.2	24.9	02/25/08 14:46
Sample ID: MB-RA226-2636 Radium 226	Method Blank ND pCi/L		0.2						02/25/08 14:46
Sample ID: LCS-RA226-2636 Radium 226	Laboratory Control Sample 6.8 pCi/L		0.20	108	70	130			02/25/08 14:46
Method: E907.0							Batch: C_17792		
Sample ID: R08020131-001K Thorium 230	Sample Duplicate 0.332 pCi/L		0.20		70	130	15	30	02/21/08 16:15
Sample ID: LCS-17792 Thorium 230	Laboratory Control Sample 32.7 pCi/g-dry		0.10	67	70	130			02/21/08 16:15 S
- LCS response is below the acceptance range for this analysis. Since the MB and the RPDs for all 3 MDs are acceptable the batch is approved.									
Sample ID: MB-17792 Thorium 230	Method Blank ND pCi/g-dry								02/21/08 16:15

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R98124		
Sample ID: LCS-R98124	Laboratory Control Sample								
Thorium 230	4.40	pCi/L	0.20	66	70	130			S
- LCS response is below the acceptance range for this analysis. Since the MB and the RPDs for for this batch are acceptable the batch is approved.									
Sample ID: C08020336-005HMS	Sample Matrix Spike								
Thorium 230	13.0	pCi/L	0.20	77	70	130			
Sample ID: C08020336-005HMSD	Sample Matrix Spike Duplicate								
Thorium 230	11.8	pCi/L	0.20	71	70	130	9.7	30	
Sample ID: MB-R98124	Method Blank								
Thorium 230	0.1	pCi/L							
Method: E909.0M							Batch: C_R97461		
Sample ID: C08020617-003FMS	Sample Matrix Spike								
Lead 210	170	pCi/L	1.0	89	70	130			
Sample ID: C08020617-003FMDS	Sample Matrix Spike Duplicate								
Lead 210	230	pCi/L	1.0	122	70	130	32	30	R
- The RPD for the spike is high. The individual Spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: C08020617-008FDUP	Sample Duplicate								
Lead 210	-3.3	pCi/L	1.0				0.0	30	
Sample ID: MB-R97461	Method Blank								
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R97461	Laboratory Control Sample								
Lead 210	85	pCi/L	1.0	71	70	130			
Method: RMO-3008							Batch: C_R97290		
Sample ID: R08020130-004I	Sample Duplicate								
Polonium 210	ND	pCi/L	1.0				0.0	30	
Sample ID: LCS-17696	Laboratory Control Sample								
Polonium 210	18	pCi/L	1.0	80	70	130			
Sample ID: MB-17696	Method Blank								
Polonium 210	ND	pCi/L	0.02						

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/06/08
Work Order: R08020082

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R97982		
Sample ID: R08020220-005H	Sample Matrix Spike				Run: SUB-C97982			02/27/08 13:30	
Polonium 210	160	pCi/L	1.0	70	70	130			
Sample ID: R08020220-005H	Sample Matrix Spike Duplicate				Run: SUB-C97982			02/27/08 13:30	
Polonium 210	170	pCi/L	1.0	74	70	130	6.4	30	
Sample ID: LCS-R97982	Laboratory Control Sample				Run: SUB-C97982			02/27/08 13:30	
Polonium 210	78	pCi/L	1.0	68	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MS, MSD and the RPD for the MS MSD pair are acceptable the batch is approved.									
Sample ID: MB-R97982	Method Blank				Run: SUB-C97982			02/27/08 13:30	
Polonium 210	2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT. Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. Powertek Drury Burdock		Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESPEC		Contact Name: Coly Forman		Phone/Fax:	Sampler: (Please Print) Coly Forman
Invoice Address: RESPEC		Invoice Contact & Phone:		Purchase Order:	Quoter/Bottle Order:
Special Report/Formats - ELI must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	ANALYSIS REQUESTED	
1. DevBurd GW635		2/10/08	14:55	SEE ATTACHED Normal Turnaround (TAT)	
2.				R U S H	
3.				Comments: GW	
4.				Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	
5.				On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
6.				Receipt Temp: 2.6 °C	
7.				Custody Seal: Y N	
8.				Intact: Y N	
9.				Signature: Y N	
10.				Match: Y N	
Custody Record MUST be Signed		Relinquished by (print): Matthew Heberg	Date/Time: 2-11-08	Signature: <i>[Signature]</i>	Received by (print): Steve Hummel
Sample Disposal:		Return to Client:	Lab Disposal:	Date/Time:	Signature:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

LABORATORY USE ONLY

108020082-001



ANALYTICAL SUMMARY REPORT

May 08, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08020130 Quote ID: R286
 Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 2/12/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08020130-001	DewBurd GW4 GW2	02/12/08 9:52 10:21	02/12/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08020130-002	DewBurd GW2 GW4	02/12/08 10:21 9:52	02/12/08	Aqueous	Same As Above
R08020130-003	DewBurd GW18	02/12/08 11:08	02/12/08	Aqueous	Same As Above
R08020130-004	DewBurd GW4002	02/12/08 11:47	02/12/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson



CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 2/12/2008 3:38:00 PM. These samples were assigned ELI Workorder Number R08020130.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005

eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002

eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942

eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006

eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945

eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08020548

Comments imported for SUBBED Workorder: B08031411

Prep Comments for Sample R08020130-001D, Test PRP-HG-245.1: The prep HoldTime was exceeded by 12.9 days.

Prep Comments for Sample R08020130-002D, Test PRP-HG-245.1: The prep HoldTime was exceeded by 12.9 days.

Prep Comments for Sample R08020130-003D, Test PRP-HG-245.1: The prep HoldTime was exceeded by 12.8 days.

Prep Comments for Sample R08020130-004D, Test PRP-HG-245.1: The prep HoldTime was exceeded by 12.8 days.

End of comments imported for SUBBED Workorder: B08031411

End of comments imported for SUBBED Workorder: C08020548



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020130-001
 Client Sample ID: DewBurd ~~CW4~~
 6WZ

Report Date: 05/08/08
 Collection Date: 02/12/08 ~~09:52~~ 10:21
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	208	mg/L		5		1	A2320 B 02/21/08 16:38/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B 02/21/08 16:38/sn
Bicarbonate as HCO3	254	mg/L		5		1	A2320 B 02/21/08 16:38/sn
Calcium	54.0	mg/L		0.5		1	E200.7 02/27/08 20:29/eli-c
Chloride	11	mg/L		1		1	E300.0 02/14/08 21:21/sn
Fluoride	0.3	mg/L		0.1		1	E300.0 02/14/08 21:21/sn
Magnesium	17.6	mg/L		0.5		1	E200.7 02/27/08 20:29/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G 02/19/08 12:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 02/14/08 21:21/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 02/14/08 21:21/sn
Potassium	11.5	mg/L		0.5		1	E200.7 02/27/08 20:29/eli-c
Silica	8.7	mg/L		0.1		1	E200.7 02/27/08 20:29/eli-c
Sodium	276	mg/L	D	0.8		1	E200.7 02/27/08 20:29/eli-c
Sulfate	639	mg/L		1		5	E300.0 02/14/08 21:05/sn
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1580	umhos/cm		5.0		1	A2510 B 02/16/08 15:30/jmh
Oxidation-Reduction Potential	190	mV				1	A2580 B 02/13/08 00:00/sn
pH	7.93	s.u.		0.01		1	A4500-H B 02/16/08 15:03/jmh
Sodium Adsorption Ratio (SAR)	8.3	Unitless		0.10		1	Calculation 02/27/08 20:29/krs
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C 02/19/08 14:20/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 02/22/08 19:39/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 02/22/08 19:39/eli-c
Barium	ND	mg/L		0.1		1	E200.8 02/22/08 19:39/eli-c
Boron	ND	mg/L		0.1		1	E200.7 02/27/08 20:29/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 02/22/08 19:39/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 02/22/08 19:39/eli-c
Copper	ND	mg/L		0.01		1	E200.8 02/22/08 19:39/eli-c
Iron	ND	mg/L		0.03		1	E200.7 02/27/08 20:29/eli-c
Lead	ND	mg/L		0.001		1	E200.8 02/22/08 19:39/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8 02/22/08 19:39/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 02/22/08 19:39/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 02/22/08 19:39/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 02/22/08 19:39/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 02/19/08 11:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8 02/22/08 19:39/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Page 1 of 12

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020130-001
Client Sample ID: DewBurd ^{GW4}
_{GW2}

Report Date: 05/08/08
Collection Date: 02/12/08 09:52 10:21
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	02/22/08 19:39/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/22/08 19:39/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/22/08 19:39/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/22/08 19:39/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 22:53/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 09:52/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/19/08 12:26/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.7	pCi/L		1.0		1	E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	1.2	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Beta	22.1	pCi/L		2.0		1	E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	2.7	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	02/21/08 10:45/eli-c
Polonium 210	2.1	pCi/L		1.0		1	RMO-3008	02/27/08 13:30/eli-c
Polonium 210 precision (±)	2.0	pCi/L				1	RMO-3008	02/27/08 13:30/eli-c
Radium 226	1.1	pCi/L		0.2		1	E903.0	03/03/08 19:46/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/03/08 19:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	02/20/08 10:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	02/25/08 13:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	792	pCi/L	H	100		1	D5072-92	02/19/08 02:27/eli-c
Radon 222 precision (±)	122	pCi/L	H			1	D5072-92	02/19/08 02:27/eli-c

- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.

TOTAL METALS ANALYSES

Antimony	ND	mg/L		0.003		1	E200.8	02/21/08 04:53/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/21/08 04:53/eli-c

Report: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 2 of 12
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020130-001
Client Sample ID: DewBurd ~~GW4~~
6W2

Report Date: 05/08/08
Collection Date: 02/12/08 09:52 / 10: 21
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
TOTAL METALS ANALYSES								
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 04:53/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/21/08 04:53/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/27/08 20:42/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 04:53/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 04:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 04:53/eli-c
Iron	1.48	mg/L		0.03		1	E200.7	02/27/08 20:42/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 04:53/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	02/21/08 04:53/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/24/08 11:50/eli-b
Molybdenum	ND	mg/L		0.01		1	E200.8	02/21/08 04:53/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 04:53/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/21/08 04:53/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 04:53/eli-c
Strontium	1.7	mg/L		0.1		1	E200.8	02/21/08 04:53/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/21/08 04:53/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 04:53/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/27/08 20:42/eli-c
DATA QUALITY								
A/C Balance (± 5)	-3.82	%				1	A1030 E	05/07/08 09:15/krs
Anions	17.8	meq/L				1	A1030 E	05/07/08 09:15/krs
Cations	16.5	meq/L				1	A1030 E	05/07/08 09:15/krs
Solids, Total Dissolved Calculated	1160	mg/L				1	A1030 E	05/07/08 09:15/krs
TDS Balance (0.80 - 1.20)	0.940	dec. %				1	A1030 E	05/07/08 09:15/krs

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020130-002
 Client Sample ID: DewBurd ~~GW2~~
 664

Report Date: 05/08/08
 Collection Date: 02/12/08 ~~10:21~~ 9:52
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	88	mg/L		5		1	A2320 B	02/21/08 16:40/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/21/08 16:40/sn
Bicarbonate as HCO3	107	mg/L		5		1	A2320 B	02/21/08 16:40/sn
Calcium	241	mg/L		0.5		1	E200.7	02/27/08 20:32/eli-c
Chloride	26	mg/L		1		5	E300.0	02/14/08 21:52/sn
Fluoride	0.4	mg/L		0.1		1	E300.0	02/14/08 22:07/sn
Magnesium	87.0	mg/L		0.5		1	E200.7	02/27/08 20:32/eli-c
Nitrogen, Ammonia as N	0.8	mg/L		0.1		1	A4500-NH3 G	02/19/08 12:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/14/08 22:07/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/14/08 22:07/sn
Potassium	7.8	mg/L		0.5		1	E200.7	02/27/08 20:32/eli-c
Silica	10.2	mg/L		0.5		1	E200.7	02/27/08 20:32/eli-c
Sodium	716	mg/L	D	8		10	E200.7	02/27/08 17:54/eli-c
Sulfate	2440	mg/L	D	7		100	E300.0	02/14/08 21:36/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4400	umhos/cm		5.0		1	A2510 B	02/16/08 15:39/jmh
Oxidation-Reduction Potential	120	mV				1	A2580 B	02/13/08 00:00/sn
pH	7.94	s.u.		0.01		1	A4500-H B	02/16/08 15:04/jmh
Sodium Adsorption Ratio (SAR)	10	Unitless		0.10		1	Calculation	02/27/08 20:32/krs
Solids, Total Dissolved TDS @ 180 C	3700	mg/L		5		1	A2540 C	02/19/08 14:24/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/22/08 19:59/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/22/08 19:59/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/22/08 19:59/eli-c
Boron	0.7	mg/L		0.1		1	E200.7	02/27/08 20:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/22/08 19:59/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/22/08 19:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/22/08 19:59/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/27/08 20:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/22/08 19:59/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	02/22/08 19:59/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/22/08 19:59/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/22/08 19:59/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/22/08 19:59/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/19/08 11:57/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/22/08 19:59/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Page 4 of 12

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020130-002
 Client Sample ID: DewBurd ~~GW2~~
 GW4

Report Date: 05/08/08
 Collection Date: 02/12/08 10:21 9:52
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1 E200.8	02/22/08 19:59/eli-c
Uranium	0.0004	mg/L		0.0003		1 E200.8	02/22/08 19:59/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	02/22/08 19:59/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	02/22/08 19:59/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	02/21/08 23:01/eli-c
METALS - SPECIATED							
Selenium-IV	0.001	mg/L		0.001		1 A3114 B	02/19/08 10:07/eli-c
Selenium-VI	0.001	mg/L		0.001		1 A3114 B	02/19/08 12:26/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	3.5	pCi/L		1.0		1 E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	3.1	pCi/L				1 E900.0	02/29/08 03:49/eli-c
Gross Beta	14.4	pCi/L		2.0		1 E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	7.2	pCi/L				1 E900.0	02/29/08 03:49/eli-c
Lead 210	ND	pCi/L		1.0		1 E909.0M	02/21/08 10:45/eli-c
Polonium 210	2.7	pCi/L		1.0		1 RMO-3008	02/27/08 13:30/eli-c
Polonium 210 precision (±)	2.1	pCi/L				1 RMO-3008	02/27/08 13:30/eli-c
Radium 226	1.1	pCi/L		0.2		1 E903.0	03/03/08 21:17/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	03/03/08 21:17/eli-c
Thorium 230	ND	pCi/L		0.2		1 E907.0	02/22/08 14:15/eli-c
Gross Gamma	ND	pCi/L		20		1 E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1 E909.0M	02/20/08 10:45/eli-c
Polonium 210	ND	pCi/L		1.0		1 RMO-3008	02/21/08 15:15/eli-c
Radium 226	0.7	pCi/L		0.2		1 E903.0	02/25/08 13:00/eli-c
Radium 226 precision (±)	0.5	pCi/L				1 E903.0	02/25/08 13:00/eli-c
Thorium 230	ND	pCi/L		0.2		1 E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	908	pCi/L	H	100		1 D5072-92	02/19/08 02:27/eli-c
Radon 222 precision (±)	123	pCi/L	H			1 D5072-92	02/19/08 02:27/eli-c
- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.							
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	02/21/08 05:00/eli-c

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 5 of 12
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020130-002
 Client Sample ID: DewBurd ^{GW2}_{GW4}

Report Date: 05/08/08
 Collection Date: 02/12/08 ^{10:21} _{9:52}
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/	DF	Method	Analysis Date / By
					QCL			
TOTAL METALS ANALYSES								
Arsenic	ND	mg/L		0.001		1	E200.8	02/21/08 05:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 05:00/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/21/08 05:00/eli-c
Boron	0.6	mg/L		0.1		1	E200.7	02/27/08 20:45/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 05:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 05:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 05:00/eli-c
Iron	1.32	mg/L		0.03		1	E200.7	02/27/08 20:45/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 05:00/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	02/21/08 05:00/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/24/08 11:52/eli-b
Molybdenum	0.02	mg/L		0.01		1	E200.8	02/21/08 05:00/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 05:00/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	02/21/08 05:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 05:00/eli-c
Strontium	5.7	mg/L		0.1		1	E200.8	02/21/08 05:00/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/21/08 05:00/eli-c
Uranium	ND	mg/L	D	0.0005		1	E200.8	02/21/08 05:00/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/27/08 20:45/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.60	%				1	A1030 E	05/07/08 09:18/krs
Anions	53.3	meq/L				1	A1030 E	05/07/08 09:18/krs
Cations	50.6	meq/L				1	A1030 E	05/07/08 09:18/krs
Solids, Total Dissolved Calculated	3600	mg/L				1	A1030 E	05/07/08 09:18/krs
TDS Balance (0.80 - 1.20)	1.02	dec. %				1	A1030 E	05/07/08 09:18/krs

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020130-003
 Client Sample ID: DewBurd GW18

Report Date: 05/08/08
 Collection Date: 02/12/08 11:08
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	180	mg/L		5		A2320 B	02/21/08 16:43/sn
Carbonate as CO3	ND	mg/L		5		A2320 B	02/21/08 16:43/sn
Bicarbonate as HCO3	219	mg/L		5		A2320 B	02/21/08 16:43/sn
Calcium	34.0	mg/L		0.5		E200.7	02/27/08 20:35/eli-c
Chloride	14	mg/L		1		E300.0	02/14/08 22:53/sn
Fluoride	0.5	mg/L		0.1		E300.0	02/14/08 22:53/sn
Magnesium	12.2	mg/L		0.5		E200.7	02/27/08 20:35/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		A4500-NH3 G	02/19/08 12:29/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		E300.0	02/14/08 22:53/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		E300.0	02/14/08 22:53/sn
Potassium	7.3	mg/L		0.5		E200.7	02/27/08 20:35/eli-c
Silica	7.8	mg/L		0.5		E200.7	02/27/08 20:35/eli-c
Sodium	270	mg/L	D	0.8		E200.7	02/27/08 20:35/eli-c
Sulfate	537	mg/L		1		E300.0	02/14/08 22:38/sn
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1450	umhos/cm		5.0		A2510 B	02/16/08 15:40/jmh
Oxidation-Reduction Potential	130	mV				A2580 B	02/13/08 00:00/sn
pH	8.11	s.u.		0.01		A4500-H B	02/16/08 15:05/jmh
Sodium Adsorption Ratio (SAR)	10	Unitless		0.10		Calculation	02/27/08 20:35/krs
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5		A2540 C	02/19/08 14:26/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	02/27/08 20:35/eli-c
Arsenic	0.001	mg/L		0.001		E200.8	02/22/08 20:33/eli-c
Barium	ND	mg/L		0.1		E200.8	02/22/08 20:33/eli-c
Boron	ND	mg/L		0.1		E200.7	02/27/08 20:35/eli-c
Cadmium	ND	mg/L		0.005		E200.8	02/22/08 20:33/eli-c
Chromium	ND	mg/L		0.05		E200.8	02/22/08 20:33/eli-c
Copper	ND	mg/L		0.01		E200.8	02/22/08 20:33/eli-c
Iron	ND	mg/L		0.03		E200.7	02/27/08 20:35/eli-c
Lead	ND	mg/L		0.001		E200.8	02/22/08 20:33/eli-c
Manganese	0.07	mg/L		0.01		E200.8	02/22/08 20:33/eli-c
Mercury	ND	mg/L		0.001		E200.8	02/22/08 20:33/eli-c
Molybdenum	ND	mg/L		0.1		E200.8	02/22/08 20:33/eli-c
Nickel	ND	mg/L		0.05		E200.8	02/22/08 20:33/eli-c
Selenium	ND	mg/L		0.001		A3114 B	02/19/08 11:59/eli-c
Silver	ND	mg/L		0.005		E200.8	02/22/08 20:33/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020130-003
 Client Sample ID: DewBurd GW18

Report Date: 05/08/08
 Collection Date: 02/12/08 11:08
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1 E200.8	02/22/08 20:33/eli-c
Uranium	0.0066	mg/L		0.0003		1 E200.8	02/22/08 20:33/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	02/22/08 20:33/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	02/22/08 20:33/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	02/21/08 23:08/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/19/08 10:09/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	02/19/08 12:26/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	31.7	pCi/L		1.0		1 E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	1.4	pCi/L				1 E900.0	02/29/08 03:49/eli-c
Gross Beta	13.0	pCi/L		2.0		1 E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	2.2	pCi/L				1 E900.0	02/29/08 03:49/eli-c
Lead 210	ND	pCi/L		1.0		1 E909.0M	02/21/08 10:45/eli-c
Polonium 210	2.2	pCi/L		1.0		1 RMO-3008	02/27/08 13:30/eli-c
Polonium 210 precision (±)	1.8	pCi/L				1 RMO-3008	02/27/08 13:30/eli-c
Radium 226	3.2	pCi/L		0.2		1 E903.0	03/03/08 22:47/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	03/03/08 22:47/eli-c
Thorium 230	0.2	pCi/L		0.2		1 E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.03	pCi/L				1 E907.0	02/22/08 14:15/eli-c
Gross Gamma	190	pCi/L		20		1 E901.1	02/19/08 08:48/eli-c
Gross Gamma precision (±)	25	pCi/L				1 E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	ND	pCi/L		1.0		1 E909.0M	02/20/08 10:45/eli-c
Polonium 210	ND	pCi/L		1.0		1 RMO-3008	02/21/08 15:15/eli-c
Radium 226	1.1	pCi/L		0.2		1 E903.0	02/25/08 13:00/eli-c
Radium 226 precision (±)	0.6	pCi/L				1 E903.0	02/25/08 13:00/eli-c
Thorium 230	ND	pCi/L		0.2		1 E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	1220	pCi/L	H	100		1 D5072-92	02/19/08 02:27/eli-c
Radon 222 precision (±)	126	pCi/L	H			1 D5072-92	02/19/08 02:27/eli-c

- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020130-003
 Client Sample ID: DewBurd GW18

Report Date: 05/08/08
 Collection Date: 02/12/08 11:08
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/21/08 05:08/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	02/21/08 05:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 05:08/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/21/08 05:08/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/27/08 21:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 05:08/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 05:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 05:08/eli-c
Iron	1.04	mg/L		0.03		1	E200.7	02/27/08 21:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 05:08/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	02/21/08 05:08/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/24/08 11:55/eli-b
Molybdenum	ND	mg/L		0.01		1	E200.8	02/21/08 05:08/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 05:08/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/21/08 05:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 05:08/eli-c
Strontium	0.6	mg/L		0.1		1	E200.8	02/21/08 05:08/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/21/08 05:08/eli-c
Uranium	0.0062	mg/L	D	0.0005		1	E200.8	02/21/08 05:08/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/27/08 21:08/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.77	%				1	A1030 E	05/07/08 09:33/krs
Anions	15.2	meq/L				1	A1030 E	05/07/08 09:33/krs
Cations	14.7	meq/L				1	A1030 E	05/07/08 09:33/krs
Solids, Total Dissolved Calculated	1000	mg/L				1	A1030 E	05/07/08 09:33/krs
TDS Balance (0.80 - 1.20)	0.960	dec. %				1	A1030 E	05/07/08 09:33/krs

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020130-004
 Client Sample ID: DewBurd GW4002

Report Date: 05/08/08
 Collection Date: 02/12/08 11:47
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	138	mg/L		5			1	A2320 B	02/21/08 16:45/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	02/21/08 16:45/sn
Bicarbonate as HCO3	168	mg/L		5			1	A2320 B	02/21/08 16:45/sn
Calcium	42.4	mg/L		0.5			1	E200.7	02/27/08 20:38/eli-c
Chloride	7	mg/L		1			1	E300.0	02/14/08 23:40/sn
Fluoride	0.4	mg/L		0.1			1	E300.0	02/14/08 23:40/sn
Magnesium	14.2	mg/L		0.5			1	E200.7	02/27/08 20:38/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	02/19/08 12:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	02/14/08 23:40/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	02/14/08 23:40/sn
Potassium	7.4	mg/L		0.5			1	E200.7	02/27/08 20:38/eli-c
Silica	7.3	mg/L		0.5			1	E200.7	02/27/08 20:38/eli-c
Sodium	198	mg/L	D	0.8			1	E200.7	02/27/08 20:38/eli-c
Sulfate	470	mg/L		1			5	E300.0	02/14/08 23:24/sn
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1230	umhos/cm		5.0			1	A2510 B	02/16/08 15:41/jmh
Oxidation-Reduction Potential	190	mV					1	A2580 B	02/13/08 00:00/sn
pH	7.83	s.u.		0.01			1	A4500-H B	02/16/08 15:05/jmh
Sodium Adsorption Ratio (SAR)	6.7	Unitless		0.10			1	Calculation	02/27/08 20:38/krs
Solids, Total Dissolved TDS @ 180 C	830	mg/L		5			1	A2540 C	02/19/08 14:27/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.7	02/27/08 20:38/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	02/22/08 20:40/eli-c
Barium	ND	mg/L		0.1			1	E200.8	02/22/08 20:40/eli-c
Boron	ND	mg/L		0.1			1	E200.7	02/27/08 20:38/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	02/22/08 20:40/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	02/22/08 20:40/eli-c
Copper	ND	mg/L		0.01			1	E200.8	02/22/08 20:40/eli-c
Iron	ND	mg/L		0.03			1	E200.7	02/27/08 20:38/eli-c
Lead	ND	mg/L		0.001			1	E200.8	02/22/08 20:40/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	02/22/08 20:40/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	02/22/08 20:40/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	02/22/08 20:40/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	02/22/08 20:40/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	02/19/08 12:01/eli-c
Silver	ND	mg/L		0.005			1	E200.8	02/22/08 20:40/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020130-004
 Client Sample ID: DewBurd GW4002

Report Date: 05/08/08
 Collection Date: 02/12/08 11:47
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	02/22/08 20:40/eli-c
Uranium	0.0026	mg/L		0.0003			1	E200.8	02/22/08 20:40/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	02/22/08 20:40/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	02/22/08 20:40/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	02/21/08 23:16/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	02/19/08 10:12/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	02/19/08 12:26/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	314	pCi/L		1.0			1	E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	4.0	pCi/L					1	E900.0	02/29/08 03:49/eli-c
Gross Beta	101	pCi/L		2.0			1	E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	3.4	pCi/L					1	E900.0	02/29/08 03:49/eli-c
Lead 210	ND	pCi/L		1.0			1	E909.0M	02/21/08 10:45/eli-c
Polonium 210	2.1	pCi/L		1.0			1	RMO-3008	02/27/08 13:30/eli-c
Polonium 210 precision (±)	2.2	pCi/L					1	RMO-3008	02/27/08 13:30/eli-c
Radium 226	57.0	pCi/L		0.4			1	E903.0	03/03/08 23:35/eli-c
Radium 226 precision (±)	2.1	pCi/L					1	E903.0	03/03/08 23:35/eli-c
Thorium 230	0.2	pCi/L		0.2			1	E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.03	pCi/L					1	E907.0	02/22/08 14:15/eli-c
Gross Gamma	650	pCi/L		20			1	E901.1	02/19/08 08:48/eli-c
Gross Gamma precision (±)	82	pCi/L					1	E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	ND	pCi/L		1.0			1	E909.0M	02/20/08 10:45/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	02/21/08 15:15/eli-c
Radium 226	37.0	pCi/L		0.2			1	E903.0	02/25/08 13:00/eli-c
Radium 226 precision (±)	3.7	pCi/L					1	E903.0	02/25/08 13:00/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	9890	pCi/L	H	100			1	D5072-92	02/19/08 02:27/eli-c
Radon 222 precision (±)	208	pCi/L	H				1	D5072-92	02/19/08 02:27/eli-c

- Hold time for Radon is set to 1 half life as a guideline. Since this data is well above RL/MDC, this batch is approved.

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020130-004
 Client Sample ID: DewBurd GW4002

Report Date: 05/08/08
 Collection Date: 02/12/08 11:47
 Date Received: 02/12/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/21/08 05:38/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/21/08 05:38/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 05:38/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/21/08 21:09/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/27/08 21:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 05:38/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 05:38/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 05:38/eli-c
Iron	2.23	mg/L		0.03		1	E200.7	02/27/08 21:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 05:38/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	02/21/08 05:38/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/24/08 11:57/eli-b
Molybdenum	ND	mg/L		0.01		1	E200.8	02/21/08 05:38/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 05:38/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/21/08 05:38/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 05:38/eli-c
Strontium	0.8	mg/L		0.1		1	E200.8	02/21/08 05:38/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/21/08 05:38/eli-c
Uranium	0.0025	mg/L	D	0.0005		1	E200.8	02/21/08 05:38/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/21/08 21:09/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.61	%				1	A1030 E	05/07/08 09:06/krs
Anions	12.8	meq/L				1	A1030 E	05/07/08 09:06/krs
Cations	12.1	meq/L				1	A1030 E	05/07/08 09:06/krs
Solids, Total Dissolved Calculated	842	mg/L				1	A1030 E	05/07/08 09:06/krs
TDS Balance (0.80 - 1.20)	0.980	dec. %				1	A1030 E	05/07/08 09:06/krs

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080221A-ALK-SEL-W							
Sample ID: MBLK1_080221A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080221A 02/21/08 16:26
Sample ID: LCS1_080221A Alkalinity, Total as CaCO3	Laboratory Control Sample 1010	mg/L	5.0	101	90	110			Run: PH_COND1-R_080221A 02/21/08 16:28
Sample ID: R08020143-002BMS Alkalinity, Total as CaCO3	Sample Matrix Spike 380	mg/L	5.0	96	80	120			Run: PH_COND1-R_080221A 02/21/08 16:57
Sample ID: R08020143-002BMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 380	mg/L	5.0	96	80	120	0.0	20	Run: PH_COND1-R_080221A 02/21/08 17:00
Method: A2510 B		Batch: 080216_1_COND-PROBE-W							
Sample ID: LCS1-1_080216 Conductivity @ 25 C	Laboratory Control Sample 154	umhos/cm	5.0	103	90	110			Run: PH_COND2-R_080216A 02/16/08 15:21
Sample ID: LCS2-1_080216 Conductivity @ 25 C	Laboratory Control Sample 5060	umhos/cm	5.0	101	90	110			Run: PH_COND2-R_080216A 02/16/08 15:21
Sample ID: LCS_COND-1_080216 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080216A 02/16/08 15:22
Sample ID: MBLK-1_080216 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080216A 02/16/08 15:22
Method: A2540 C		Batch: 080219A-SLDS-TDS-W							
Sample ID: MBLK1_080219A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080219A 02/19/08 14:17
Sample ID: LCS1_080219A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 200	mg/L	5.0	99	90	110			Run: BAL-4-R_080219A 02/19/08 14:18
Sample ID: R08020130-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1300	mg/L	5.0	95	80	120			Run: BAL-4-R_080219A 02/19/08 14:21
Sample ID: R08020130-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1300	mg/L	5.0	89	80	120	0.9	10	Run: BAL-4-R_080219A 02/19/08 14:23
Method: A2580 B		Batch: R33556							
Sample ID: LCS_021308 Oxidation-Reduction Potential	Laboratory Control Sample 480	mV		102	95	105			Run: PH_COND1-R_080213A 02/13/08 00:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_R97081		
Sample ID: C08020402-001EMS Selenium-VI	Sample Matrix Spike 0.048 mg/L		0.0010	95	85	115			02/19/08 12:26
Sample ID: C08020402-001EMSD Selenium-VI	Sample Matrix Spike Duplicate 0.050 mg/L		0.0010	99	85	115	3.9	10	02/19/08 12:26
Method: A3114 B							Batch: C_SE3114-080219		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05						02/19/08 11:44
Sample ID: 288-30-5 Selenium	Laboratory Control Sample 0.050 mg/L		0.0010	100	90	110			02/19/08 11:47
Sample ID: C08020402-001EMS Selenium	Sample Matrix Spike 0.048 mg/L		0.0010	96	85	115			02/19/08 12:10
Sample ID: C08020402-001EMSD Selenium	Sample Matrix Spike Duplicate 0.050 mg/L		0.0010	99	85	115	3.9	10	02/19/08 12:12
Method: A3114 B							Batch: C_SEIV3114-080219		
Sample ID: MBLK Selenium-IV	Method Blank 0.003 mg/L		6E-05						02/19/08 09:27
Sample ID: 288-30-5 Selenium-IV	Laboratory Control Sample 0.051 mg/L		0.0010	102	90	110			02/19/08 09:43
Sample ID: C08020402-001EMS Selenium-IV	Sample Matrix Spike 0.089 mg/L		0.0010	177	85	115			02/19/08 10:20 S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: C08020402-001EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.085 mg/L		0.0010	169	85	115	5.0	10	02/19/08 10:22 S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Method: A4500-H B							Batch: 080216_1_PH-W		
Sample ID: LCS_pH-1_080216 pH	Laboratory Control Sample 6.93 s.u.		0.010	101	98.55	101.45			02/16/08 14:56

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-02-19_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080219A			02/19/08 11:22
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	92	90	110			02/19/08 11:24
						Run: TECHAA2-R_080219A			02/19/08 11:25
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	94	90	110			02/19/08 11:25
						Run: TECHAA2-R_080219A			02/19/08 12:45
Sample ID: R08020157-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.34	mg/L	0.10	88	80	120			02/19/08 12:45
						Run: TECHAA2-R_080219A			02/19/08 12:47
Sample ID: R08020157-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.31	mg/L	0.10	73	80	120	11	10	SR
Method: D5072-92							Batch: C_R97139		
Sample ID: R08020130-004G Radon 222	Sample Duplicate 9730	pCi/L	100				1.6	30	02/19/08 02:27
						Run: SUB-C97139			02/19/08 02:27
Sample ID: MB-R97139 Radon 222	Method Blank ND	pCi/L	100						02/19/08 02:27
						Run: SUB-C97139			02/19/08 02:27
Sample ID: LCS-R97139 Radon 222	Laboratory Control Sample 302	pCi/L	100	99	70	130			02/19/08 02:27

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_17796		
Sample ID: MB-17796	Method Blank				Run: SUB-C97399		02/26/08 12:13		
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	0.002	mg/L	0.001						
Sample ID: LCS-17796	Laboratory Control Sample				Run: SUB-C97440		02/27/08 15:39		
Boron	0.550	mg/L	0.10	110	85	115			
Iron	0.554	mg/L	0.030	111	85	115			
Zinc	0.561	mg/L	0.010	112	85	115			
Sample ID: C08020547-001BMS	Sample Matrix Spike				Run: SUB-C97440		02/27/08 18:27		
Boron	9.95	mg/L	0.13	98	70	130			
Iron	9.57	mg/L	0.087	94	70	130			
Zinc	9.71	mg/L	0.014	97	70	130			
Sample ID: C08020547-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C97440		02/27/08 18:30		
Boron	10.3	mg/L	0.13	101	70	130	3.6	20	
Iron	9.80	mg/L	0.087	97	70	130	2.4	20	
Zinc	9.90	mg/L	0.014	99	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R97440		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C97440			02/27/08 13:40		
Silica	2.0	mg/L	0.10	100	85	125			
Aluminum	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C97440			02/27/08 13:43		
Calcium	24	mg/L	0.50	96	85	125			
Magnesium	24	mg/L	0.50	96	85	125			
Potassium	25	mg/L	0.50	99	85	125			
Sodium	24	mg/L	0.76	96	85	125			
Sample ID: LRB	Laboratory Reagent Blank			Run: SUB-C97440			02/27/08 13:50		
Silica	ND	mg/L	0.10						
Aluminum	ND	mg/L	0.10						
Boron	0.015	mg/L	0.10						
Calcium	ND	mg/L	0.50						
Iron	ND	mg/L	0.030						
Magnesium	ND	mg/L	0.50						
Potassium	0.045	mg/L	0.50						
Sodium	ND	mg/L	0.76						
Sample ID: C08020547-001AMS	Sample Matrix Spike			Run: SUB-C97440			02/27/08 17:35		
Aluminum	9.63	mg/L	0.10	96	70	130			
Boron	10.2	mg/L	0.10	100	70	130			
Iron	9.71	mg/L	0.046	97	70	130			
Calcium	914	mg/L	1.0	84	70	130			
Magnesium	558	mg/L	0.50	89	70	130			
Potassium	1140	mg/L	0.50	94	70	130			
Silica	23.1	mg/L	0.20	93	70	130			
Sodium	638	mg/L	7.6	89	70	130			
Sample ID: C08020547-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C97440			02/27/08 17:38		
Aluminum	9.66	mg/L	0.10	97	70	130	0.3	20	
Boron	10.3	mg/L	0.10	101	70	130	1.3	20	
Iron	9.72	mg/L	0.046	97	70	130	0.1	20	
Calcium	902	mg/L	1.0	81	70	130	1.3	20	
Magnesium	552	mg/L	0.50	88	70	130	1.1	20	
Potassium	1130	mg/L	0.50	94	70	130	0.4	20	
Silica	22.9	mg/L	0.20	92	70	130	0.6	20	
Sodium	627	mg/L	7.6	87	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17792
Sample ID: MB-17792	Method Blank								02/21/08 21:54
Uranium	ND	mg/L	1E-06						
Sample ID: LCS1-17792	Laboratory Control Sample								02/21/08 22:01
Uranium	0.0534	mg/L	0.00030	101	80	120			
Sample ID: R08020083-003K	Post Digestion Spike								02/21/08 23:45
Uranium	0.0251	mg/L	0.00030	100	70	130			
Sample ID: R08020083-003K	Post Digestion Spike Duplicate								02/21/08 23:53
Uranium	0.0248	mg/L	0.00030	99	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: R08020083-003B	Post Digestion Spike			Run: SUB-C97150			02/21/08 06:08		
Antimony	0.251	mg/L	0.050	100	70	130			
Arsenic	0.250	mg/L	0.0010	100	70	130			
Barium	0.252	mg/L	0.10	95	70	130			
Beryllium	0.202	mg/L	0.010	81	70	130			
Cadmium	0.248	mg/L	0.010	99	70	130			
Chromium	0.252	mg/L	0.050	101	70	130			
Copper	0.255	mg/L	0.010	100	70	130			
Lead	0.252	mg/L	0.050	101	70	130			
Manganese	0.302	mg/L	0.010	106	70	130			
Molybdenum	0.282	mg/L	0.10	112	70	130			
Nickel	0.264	mg/L	0.050	101	70	130			
Selenium	0.238	mg/L	0.0011	93	70	130			
Silver	0.0830	mg/L	0.010	83	70	130			
Strontium	8.15	mg/L	0.10		70	130			A
Thallium	0.254	mg/L	0.10	102	70	130			
Uranium	0.402	mg/L	0.00030	94	70	130			
Sample ID: R08020083-003B	Post Digestion Spike Duplicate			Run: SUB-C97150			02/21/08 06:16		
Antimony	0.262	mg/L	0.050	105	70	130	4.3	20	
Arsenic	0.253	mg/L	0.0010	101	70	130	1.2	20	
Barium	0.253	mg/L	0.10	95	70	130	0.4	20	
Beryllium	0.201	mg/L	0.010	81	70	130	0.1	20	
Cadmium	0.251	mg/L	0.010	100	70	130	1.1	20	
Chromium	0.252	mg/L	0.050	101	70	130	0.1	20	
Copper	0.251	mg/L	0.010	99	70	130	1.4	20	
Lead	0.253	mg/L	0.050	101	70	130	0.5	20	
Manganese	0.295	mg/L	0.010	103	70	130	2.4	20	
Molybdenum	0.278	mg/L	0.10	110	70	130	1.6	20	
Nickel	0.269	mg/L	0.050	103	70	130	1.7	20	
Selenium	0.240	mg/L	0.0011	94	70	130	0.6	20	
Silver	0.107	mg/L	0.010	107	70	130	26	20	R
Strontium	7.93	mg/L	0.10		70	130	2.7	20	A
Thallium	0.254	mg/L	0.10	102	70	130	0.0	20	
Uranium	0.406	mg/L	0.00030	95	70	130	1.0	20	
Sample ID: MB-17796	Method Blank			Run: SUB-C97150			02/21/08 02:45		
Antimony	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Beryllium	ND	mg/L	7E-05						
Cadmium	ND	mg/L	0.0004						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: MB-17796	Method Blank			Run: SUB-C97150			02/21/08 02:45		
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	0.001	mg/L	0.0002						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0001						
Strontium	ND	mg/L	7E-05						
Thallium	ND	mg/L	5E-05						
Uranium	0.0004	mg/L	4E-05						
Sample ID: LCS1-17796	Laboratory Control Sample			Run: SUB-C97150			02/21/08 02:52		
Antimony	0.0187	mg/L	0.050	93	80	120			
Arsenic	0.0201	mg/L	0.0010	100	80	120			
Barium	0.0194	mg/L	0.10	97	80	120			
Beryllium	0.0182	mg/L	0.010	91	80	120			
Cadmium	0.0196	mg/L	0.010	98	80	120			
Chromium	0.0193	mg/L	0.050	97	80	120			
Copper	0.0199	mg/L	0.010	100	80	120			
Lead	0.0196	mg/L	0.050	98	80	120			
Manganese	0.0195	mg/L	0.010	97	80	120			
Molybdenum	0.0202	mg/L	0.10	95	80	120			
Nickel	0.0203	mg/L	0.050	102	80	120			
Selenium	0.0953	mg/L	0.0010	95	80	120			
Silver	0.0214	mg/L	0.010	107	80	120			
Strontium	0.00994	mg/L	0.10	99	80	120			
Thallium	0.0191	mg/L	0.10	96	80	120			
Uranium	0.0186	mg/L	0.00030	91	80	120			
Sample ID: LCS-17796	Laboratory Control Sample			Run: SUB-C97150			02/21/08 03:00		
Antimony	0.0484	mg/L	0.050	97	85	115			
Arsenic	0.0492	mg/L	0.0010	98	85	115			
Barium	0.0487	mg/L	0.10	97	85	115			
Beryllium	0.0492	mg/L	0.010	98	85	115			
Cadmium	0.0492	mg/L	0.010	98	85	115			
Chromium	0.0490	mg/L	0.050	98	85	115			
Copper	0.0488	mg/L	0.010	98	85	115			
Lead	0.0492	mg/L	0.050	98	85	115			
Manganese	0.0480	mg/L	0.010	96	85	115			
Molybdenum	0.0509	mg/L	0.10	99	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17796		
Sample ID: LCS-17796	Laboratory Control Sample			Run: SUB-C97150			02/21/08 03:00		
Nickel	0.0501	mg/L	0.050	100	85	115			
Selenium	0.0485	mg/L	0.0010	97	85	115			
Silver	0.0218	mg/L	0.010	109	85	115			
Strontium	0.0475	mg/L	0.10	95	85	115			
Thallium	0.0495	mg/L	0.10	99	85	115			
Uranium	0.0479	mg/L	0.00030	95	85	115			
Sample ID: MB-17796	Method Blank			Run: SUB-C97226			02/21/08 20:25		
Antimony	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Beryllium	ND	mg/L	7E-05						
Cadmium	ND	mg/L	0.0002						
Chromium	ND	mg/L	0.0003						
Copper	ND	mg/L	8E-05						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	8E-05	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Strontium	9E-05	mg/L	7E-05						
Thallium	ND	mg/L	5E-05						
Uranium	ND	mg/L	4E-05						
Zinc	0.1	mg/L	0.002						
Sample ID: LCS-17796	Laboratory Control Sample			Run: SUB-C97226			02/21/08 20:39		
Antimony	0.0502	mg/L	0.050	100	85	115			
Arsenic	0.0518	mg/L	0.0010	104	85	115			
Barium	0.0520	mg/L	0.10	104	85	115			
Beryllium	0.0522	mg/L	0.010	104	85	115			
Cadmium	0.0526	mg/L	0.010	105	85	115			
Chromium	0.0509	mg/L	0.050	102	85	115			
Copper	0.0494	mg/L	0.010	99	85	115			
Lead	0.0522	mg/L	0.050	104	85	115			
Manganese	0.0505	mg/L	0.010	101	85	115			
Molybdenum	0.0534	mg/L	0.10	107	85	115			
Nickel	0.0496	mg/L	0.050	99	85	115			
Selenium	0.0509	mg/L	0.0010	102	85	115			
Strontium	0.0518	mg/L	0.10	104	85	115			
Thallium	0.0523	mg/L	0.10	105	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17796
Sample ID: LCS-17796	Laboratory Control Sample								Run: SUB-C97226 02/21/08 20:39
Zinc	0.0530	mg/L	0.010	102	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97313		
Sample ID: LRB	Method Blank		Run: SUB-C97313			02/22/08 14:40			
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	0.0002	mg/L	3E-05						
Cadmium	2E-05	mg/L	1E-05						
Chromium	7E-05	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.0005	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.01	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C97313			02/22/08 16:36			
Aluminum	0.0540	mg/L	0.0010	108	85	115			
Arsenic	0.0506	mg/L	0.0010	101	85	115			
Barium	0.0509	mg/L	0.0010	101	85	115			
Cadmium	0.0511	mg/L	0.0010	102	85	115			
Chromium	0.0502	mg/L	0.0010	100	85	115			
Copper	0.0500	mg/L	0.0010	100	85	115			
Lead	0.0509	mg/L	0.0010	102	85	115			
Manganese	0.0503	mg/L	0.0010	101	85	115			
Mercury	0.00494	mg/L	0.0010	99	85	115			
Molybdenum	0.0563	mg/L	0.0010	113	85	115			
Nickel	0.0503	mg/L	0.0010	101	85	115			
Silver	0.0196	mg/L	0.0010	95	85	115			
Thorium 232	0.0505	mg/L	0.0010	101	85	115			
Uranium	0.0510	mg/L	0.00030	102	85	115			
Vanadium	0.0504	mg/L	0.0010	101	85	115			
Zinc	0.0523	mg/L	0.0010	84	85	115			S
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C97313			02/22/08 14:46			
Aluminum	0.0534	mg/L	0.0010	107	85	115			
Arsenic	0.0502	mg/L	0.0010	100	85	115			
Barium	0.0498	mg/L	0.0010	99	85	115			
Cadmium	0.0516	mg/L	0.0010	103	85	115			
Chromium	0.0507	mg/L	0.0010	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97313		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C97313			02/22/08 14:46		
Copper	0.0500	mg/L	0.0010	100	85	115			
Lead	0.0507	mg/L	0.0010	101	85	115			
Manganese	0.0502	mg/L	0.0010	100	85	115			
Mercury	0.00502	mg/L	0.0010	100	85	115			
Molybdenum	0.0540	mg/L	0.0010	108	85	115			
Nickel	0.0502	mg/L	0.0010	100	85	115			
Silver	0.0153	mg/L	0.0010	74	85	115			S
Thorium 232	0.0503	mg/L	0.0010	101	85	115			
Uranium	0.0505	mg/L	0.00030	101	85	115			
Vanadium	0.0508	mg/L	0.0010	102	85	115			
Zinc	0.0708	mg/L	0.0010	121	85	115			S
Sample ID: C08020548-001CMS4	Post Digestion Spike			Run: SUB-C97313			02/22/08 19:46		
Aluminum	0.0521	mg/L	0.10	104	70	130			
Arsenic	0.0512	mg/L	0.0010	101	70	130			
Barium	0.0608	mg/L	0.10	103	70	130			
Cadmium	0.0481	mg/L	0.010	96	70	130			
Chromium	0.0491	mg/L	0.050	94	70	130			
Copper	0.0460	mg/L	0.010	91	70	130			
Lead	0.0520	mg/L	0.050	104	70	130			
Manganese	0.136	mg/L	0.010	85	70	130			
Mercury	0.00503	mg/L	0.0010	101	70	130			
Molybdenum	0.0556	mg/L	0.10	109	70	130			
Nickel	0.0468	mg/L	0.050	94	70	130			
Silver	0.0169	mg/L	0.010	84	70	130			
Thorium 232	0.0542	mg/L	0.0010	108	70	130			
Uranium	0.0548	mg/L	0.00030	109	70	130			
Vanadium	0.0495	mg/L	0.10	98	70	130			
Zinc	0.0482	mg/L	0.010	98	70	130			
Sample ID: C08020548-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C97313			02/22/08 19:53		
Aluminum	0.0499	mg/L	0.10	100	70	130	0.0	20	
Arsenic	0.0497	mg/L	0.0010	98	70	130	2.9	20	
Barium	0.0595	mg/L	0.10	100	70	130	0.0	20	
Cadmium	0.0482	mg/L	0.010	96	70	130	0.2	20	
Chromium	0.0493	mg/L	0.050	95	70	130	0.0	20	
Copper	0.0456	mg/L	0.010	91	70	130	0.9	20	
Lead	0.0510	mg/L	0.050	102	70	130	1.9	20	
Manganese	0.138	mg/L	0.010	88	70	130	1.4	20	
Mercury	0.00513	mg/L	0.0010	102	70	130	1.9	20	
Molybdenum	0.0548	mg/L	0.10	108	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97313		
Sample ID: C08020548-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C97313			02/22/08 19:53		
Nickel	0.0469	mg/L	0.050	94	70	130	0.0	20	
Silver	0.0170	mg/L	0.010	85	70	130	0.4	20	
Thorium 232	0.0540	mg/L	0.0010	108	70	130	0.2	20	
Uranium	0.0542	mg/L	0.00030	108	70	130	1.1	20	
Vanadium	0.0501	mg/L	0.10	99	70	130	0.0	20	
Zinc	0.0452	mg/L	0.010	92	70	130	6.4	20	
Sample ID: C08020583-002AMS	Sample Matrix Spike			Run: SUB-C97313			02/23/08 03:28		
Copper	0.0729	mg/L	0.010	99	70	130			
Lead	0.0510	mg/L	0.0010	102	70	130			
Sample ID: C08020583-002AMSD	Sample Matrix Spike Duplicate			Run: SUB-C97313			02/23/08 03:35		
Copper	0.0713	mg/L	0.010	96	70	130	2.2	20	
Lead	0.0495	mg/L	0.0010	99	70	130	3.1	20	
Method: E245.1							Batch: C_B_31543		
Sample ID: MB-31543	Method Blank			Run: SUB-C98552			03/24/08 10:46		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-31543	Laboratory Fortified Blank			Run: SUB-C98552			03/24/08 10:49		
Mercury	0.0019	mg/L	0.0010	94	85	115			
Sample ID: R08020220-001D	Sample Matrix Spike			Run: SUB-C98552			03/24/08 10:53		
Mercury	0.0016	mg/L	0.0010	82	70	130			
Sample ID: R08020220-001D	Sample Matrix Spike Duplicate			Run: SUB-C98552			03/24/08 10:56		
Mercury	0.0018	mg/L	0.0010	89	70	130	8.8	30	
Sample ID: B08031358-013CMS	Sample Matrix Spike			Run: SUB-C98552			03/24/08 11:31		
Mercury	0.0023	mg/L	0.0010	113	70	130			
Sample ID: B08031358-013CMSD	Sample Matrix Spike Duplicate			Run: SUB-C98552			03/24/08 11:33		
Mercury	0.0020	mg/L	0.0010	99	70	130	13	30	
Method: E245.1							Analytical Run: SUB-C98552		
Sample ID: QCS	Initial Calibration Verification Standard						03/24/08 10:39		
Mercury	0.0018	mg/L	0.0010	92	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R33510		
Sample ID: LFB0802130124-1	Laboratory Fortified Blank			Run: DIONEX_080214A			02/14/08 15:42		
Chloride	5.60	mg/L	0.50	112	90	110			S
Fluoride	2.13	mg/L	0.10	106	90	110			
Nitrogen, Nitrate as N	2.52	mg/L	0.10	101	90	110			
Nitrogen, Nitrite as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.9	mg/L	1.0	99	90	110			
Sample ID: LFB0802130124-1	Laboratory Fortified Blank			Run: DIONEX_080214A			02/14/08 15:57		
Chloride	5.29	mg/L	0.50	106	90	110			
Fluoride	1.89	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.42	mg/L	0.10	97	90	110			
Nitrogen, Nitrite as N	2.26	mg/L	0.10	90	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08020138-002AMS	Sample Matrix Spike			Run: DIONEX_080214A			02/15/08 02:14		
Chloride	294	mg/L	0.54		80	120			A
Fluoride	10.3	mg/L	0.10	93	80	120			
Nitrogen, Nitrate as N	34.8	mg/L	0.13	90	80	120			
Nitrogen, Nitrite as N	18.0	mg/L	0.29	144	80	120			S
Sulfate	1330	mg/L	1.0		80	120			A
Sample ID: R08020138-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080214A			02/15/08 09:43		
Chloride	294	mg/L	0.54		80	120	0.0	10	A
Fluoride	11.1	mg/L	0.10	101	80	120	7.0	10	
Nitrogen, Nitrate as N	34.6	mg/L	0.13	89	80	120	0.6	10	
Nitrogen, Nitrite as N	18.0	mg/L	0.29	144	80	120	0.2	10	S
Sulfate	1320	mg/L	1.0		80	120	0.4	10	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0398		
Sample ID: MB-GrAB-0398	Method Blank					Run: SUB-C97539		02/28/08 02:15	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0398	Laboratory Control Sample					Run: SUB-C97539		02/28/08 02:16	
Gross Alpha	230	pCi/L	1.0	94	70	130			
Sample ID: Cs137-GrAB-0398	Laboratory Control Sample					Run: SUB-C97539		02/28/08 02:16	
Gross Beta	89	pCi/L	2.0	94	70	130			
Sample ID: C08020423-001AMS	Sample Matrix Spike					Run: SUB-C97539		02/28/08 02:16	
Gross Alpha	340	pCi/L	1.0	117	70	130			
Sample ID: C08020423-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C97539		02/28/08 02:15	
Gross Alpha	370	pCi/L	1.0	127	70	130	8.0	11.9	
Sample ID: C08020423-001AMS	Sample Matrix Spike					Run: SUB-C97539		02/28/08 02:15	
Gross Beta	100	pCi/L	2.0	87	70	130			
Sample ID: C08020423-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C97539		02/28/08 02:15	
Gross Beta	110	pCi/L	2.0	92	70	130	5.4	15.5	
Method: E901.1							Batch: C_R97137		
Sample ID: LCS-R97137	Laboratory Control Sample					Run: SUB-C97137		02/19/08 08:48	
Americium 241	720	pCi/L	20	88	70	130			
Cesium 137	1200	pCi/L	20	82	70	130			
Potassium 40	7400	pCi/L	20	111	70	130			
Sample ID: MB-R97137	Method Blank					Run: SUB-C97137		02/19/08 08:48	
Gross Gamma	ND	pCi/L	20						
Sample ID: R08020083-003I	Sample Duplicate					Run: SUB-C97137		02/19/08 08:48	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2633		
Sample ID: R08020083-003K Radium 226	Sample Matrix Spike 120	pCi/L	0.20	95	70	130			02/25/08 14:45
									Run: SUB-C97303
Sample ID: R08020083-003K Radium 226	Sample Matrix Spike Duplicate 120	pCi/L	0.20	92	70	130	2.6	24.9	02/25/08 14:45
									Run: SUB-C97303
Sample ID: LCS-17792 Radium 226	Laboratory Control Sample 12	pCi/L	0.20	95	70	130			02/25/08 14:45
									Run: SUB-C97303
Sample ID: MB-17792 Radium 226	Method Blank ND	pCi/L	0.2						02/25/08 14:45
									Run: SUB-C97303
Method: E903.0							Batch: C_RA226-2639		
Sample ID: C08020692-001AMS Radium 226	Sample Matrix Spike 9.7	pCi/L	0.20	81	70	130			03/04/08 04:52
									Run: SUB-C97776
Sample ID: C08020692-001AMSD Radium 226	Sample Matrix Spike Duplicate 10	pCi/L	0.20	92	70	130	6.8	22.2	03/04/08 06:22
									Run: SUB-C97776
Sample ID: MB-RA226-2639 Radium 226	Method Blank ND	pCi/L							03/04/08 07:52
									Run: SUB-C97776
Sample ID: LCS-RA226-2639 Radium 226	Laboratory Control Sample 12	pCi/L	0.40	93	70	130			03/04/08 09:23
									Run: SUB-C97776
Method: E907.0							Batch: C_17792		
Sample ID: LCS-17792 Thorium 230	Laboratory Control Sample 32.7	pCi/g-dry	0.10	67	70	130			02/21/08 16:15 S
									Run: SUB-C97814
- LCS response is below the acceptance range for this analysis. Since the MB and the RPDs for all 3 MDs are acceptable the batch is approved.									
Sample ID: MB-17792 Thorium 230	Method Blank ND	pCi/g-dry							02/21/08 16:15
									Run: SUB-C97814
Sample ID: C08020475-002BDUP Thorium 230	Sample Duplicate 9.67	pCi/g-dry	0.10		70	130	4.6	30	02/21/08 16:15
									Run: SUB-C97814

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R98194		
Sample ID: LCS-R98194	Laboratory Control Sample								02/22/08 14:15
Thorium 230	7.40	pCi/L	0.20	106	70	130			
Sample ID: C08020548-004HMS	Sample Matrix Spike								02/22/08 14:15
Thorium 230	44.3	pCi/L	0.20	93	70	130			
Sample ID: C08020548-004HMSD	Sample Matrix Spike Duplicate								02/22/08 14:15
Thorium 230	42.4	pCi/L	0.20	89	70	130	4.4	30	
Sample ID: MB-R98194	Method Blank								02/22/08 14:15
Thorium 230		pCi/L							
Method: E909.0M							Batch: C_R97461		
Sample ID: C08020617-003FMS	Sample Matrix Spike								02/21/08 10:45
Lead 210	170	pCi/L	1.0	89	70	130			
Sample ID: C08020617-003FMSD	Sample Matrix Spike Duplicate								02/21/08 10:45
Lead 210	230	pCi/L	1.0	122	70	130	32	30	R
- The RPD for the spike is high. The individual Spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R97461	Method Blank								02/21/08 10:45
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R97461	Laboratory Control Sample								02/21/08 10:45
Lead 210	85	pCi/L	1.0	71	70	130			
Method: RMO-3008							Batch: C_R97290		
Sample ID: R08020130-004I	Sample Duplicate								02/21/08 15:15
Polonium 210	ND	pCi/L	1.0				0.0	30	
Sample ID: LCS-17696	Laboratory Control Sample								02/21/08 15:15
Polonium 210	18	pCi/L	1.0	80	70	130			
Sample ID: MB-17696	Method Blank								02/21/08 15:15
Polonium 210	ND	pCi/L	0.02						

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020130

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R97982		
Sample ID: R08020220-005H Polonium 210	Sample Matrix Spike 160	pCi/L	1.0	70	70	130			02/27/08 13:30
Sample ID: R08020220-005H Polonium 210	Sample Matrix Spike Duplicate 170	pCi/L	1.0	74	70	130	6.4	30	02/27/08 13:30
Sample ID: LCS-R97982 Polonium 210	Laboratory Control Sample 78	pCi/L	1.0	68	70	130			02/27/08 13:30 S
- LCS response is outside of the acceptance range for this analysis. Since the MS, MSD and the RPD for the MS MSD pair are acceptable the batch is approved.									
Sample ID: MB-R97982 Polonium 210	Method Blank 2	pCi/L							02/27/08 13:30

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC Report Mail Address: PO Box 725 Rapid City, SD 57704 Invoice Address:		Project Name, PWS, Permit, Etc.: Deery - Burdock Contact Name: Cory Berman Phone/Fax: 394-6400 Invoice Contact & Phone:		Sample Origin: State: SD Email: [Blank]		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Special Report/Formats - ELL must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		ANALYSIS REQUESTED [Blank]	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time		MATRIX	
1 GAO 4 2		8/12/08		9:52		W	
2 GAO 2 4		8/12/08		10:21		W	
3 GAO 18		8/12/08		11:08		W	
4 GAO 4002		8/12/08		11:47		W	
5							
6							
7							
8							
9							
10							
Relinquished by (print): Crystal Hocking Date/Time: 2/20/09		Signature: [Signature]		Received by (print): [Blank]		Date/Time: [Blank]	
Relinquished by (print): Crystal Hocking Date/Time: 2/20/09		Signature: [Signature]		Received by (print): [Blank]		Date/Time: [Blank]	
Sample Disposal: Return to Client		Lab Disposal:		Received by Laboratory: [Signature]		Date/Time: 8/10/08	
Signature: [Signature]		Signature: [Signature]		Signature: [Signature]		Signature: [Signature]	

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:

Bag # 19

108620130-001

002

003

004

LABORATORY USE ONLY

Custody Seal Y N
 Intact Y N
 Signature Y N
 Match Y N

On Ice: Yes No
 Receipt Temp: 3.6 °C

Shipped by:
 Cooler (D/E):

Sampler: (Please Print)
 Crystal Hocking
 Matt Stillenburg

Quote/Bottle Order:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

May 08, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08020220 Quote ID: R286


Project Name: Edgemont

Energy Laboratories Inc. received the following 5 samples from RESPEC Inc on 2/21/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08020220-001	DewBurd GW7002	02/20/08 8:30	02/21/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08020220-002	DewBurd GW7	02/20/08 8:45	02/21/08	Aqueous	Same As Above
R08020220-003	DewBurd GW631	02/20/08 13:55	02/21/08	Aqueous	Same As Above
R08020220-004	DewBurd GW13	02/20/08 14:41	02/21/08	Aqueous	Same As Above
R08020220-005	DewBurd GW628	02/20/08 18:30	02/21/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 



Date: 08-May-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08020220

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08020812

Comments imported for SUBBED Workorder: B08030260

Prep Comments for Sample R08020220-001D, Test PRP-HG-245.1: The prep HoldTime was exceeded by 4.9 days.

Prep Comments for Sample R08020220-002D, Test PRP-HG-245.1: The prep HoldTime was exceeded by 4.9 days.

Prep Comments for Sample R08020220-005D, Test PRP-HG-245.1: The prep HoldTime was exceeded by 4.5 days.

End of comments imported for SUBBED Workorder: B08030260

End of comments imported for SUBBED Workorder: C08020812



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020220-001
Client Sample ID: DewBurd GW7002

Report Date: 05/08/08
Collection Date: 02/20/08 08:30
Date Received: 02/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	260	mg/L		5		1	A2320 B	02/26/08 15:59/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/26/08 15:59/sn
Bicarbonate as HCO3	317	mg/L		5		1	A2320 B	02/26/08 15:59/sn
Calcium	213	mg/L		0.5		1	E200.7	03/04/08 01:45/eli-c
Chloride	9	mg/L		1		1	E300.0	02/21/08 19:04/sn
Fluoride	0.5	mg/L		0.1		1	E300.0	02/21/08 19:04/sn
Magnesium	81.7	mg/L		0.5		1	E200.7	03/04/08 01:45/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/26/08 14:20/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/21/08 19:04/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/21/08 19:04/sn
Potassium	21.0	mg/L		0.5		1	E200.7	03/04/08 01:45/eli-c
Silica	7.8	mg/L		0.5		1	E200.7	03/04/08 01:45/eli-c
Sodium	162	mg/L	D	0.8		1	E200.7	03/04/08 01:45/eli-c
Sulfate	1080	mg/L	D	3		50	E300.0	02/21/08 18:18/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2420	umhos/cm		5.0		1	A2510 B	02/27/08 12:48/ch
Oxidation-Reduction Potential	170	mV				1	A2580 B	02/22/08 00:00/sn
pH	7.56	s.u.		0.01		1	A4500-H B	02/26/08 00:00/ch
Sodium Adsorption Ratio (SAR)	2.4	Unitless		0.10		1	Calculation	03/04/08 01:45/krs
Solids, Total Dissolved TDS @ 180 C	1900	mg/L		5		1	A2540 C	02/22/08 10:31/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/29/08 07:10/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/29/08 07:10/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/29/08 07:10/eli-c
Boron	ND	mg/L		0.1		1	E200.7	03/04/08 01:45/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/29/08 07:10/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/29/08 07:10/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/29/08 07:10/eli-c
Iron	0.28	mg/L		0.03		1	E200.7	03/04/08 01:45/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/29/08 07:10/eli-c
Manganese	0.38	mg/L		0.01		1	E200.8	02/29/08 07:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/29/08 07:10/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/29/08 07:10/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/29/08 07:10/eli-c
Selenium	0.001	mg/L		0.001		1	A3114 B	02/25/08 10:59/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/03/08 17:53/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-001
 Client Sample ID: DewBurd GW7002

Report Date: 05/08/08
 Collection Date: 02/20/08 08:30
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	02/29/08 07:10/eli-c
Uranium	0.0006	mg/L		0.0003			1	E200.8	02/29/08 07:10/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	02/29/08 07:10/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	02/29/08 07:10/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	03/01/08 06:59/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	02/25/08 09:27/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	02/25/08 11:26/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	91.4	pCi/L		7.0			1	E900.0	03/07/08 03:32/eli-c
Gross Alpha precision (±)	9.6	pCi/L					1	E900.0	03/07/08 03:32/eli-c
Gross Beta	41.4	pCi/L		9.0			1	E900.0	03/07/08 03:32/eli-c
Gross Beta precision (±)	6.4	pCi/L					1	E900.0	03/07/08 03:32/eli-c
Lead 210	13	pCi/L		1.0			1	E909.0M	02/26/08 09:30/eli-c
Lead 210 precision (±)	2.4	pCi/L					1	E909.0M	02/26/08 09:30/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	02/27/08 13:30/eli-c
Radium 226	8.8	pCi/L		0.1			1	E903.0	03/06/08 15:27/eli-c
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	03/06/08 15:27/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	02/29/08 14:00/eli-c
Gross Gamma	370	pCi/L		20			1	E901.1	02/22/08 16:15/eli-c
Gross Gamma precision (±)	42	pCi/L					1	E901.1	02/22/08 16:15/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	7.9	pCi/L		1.0			1	E909.0M	03/04/08 09:45/eli-c
Lead 210 precision (±)	1.4	pCi/L					1	E909.0M	03/04/08 09:45/eli-c
Polonium 210	ND	pCi/L		1.0			1	RMO-3008	03/06/08 14:45/eli-c
Radium 226	ND	pCi/L		0.9			1	E903.0	03/11/08 17:06/eli-c
Thorium 230	ND	pCi/L		0.2			1	E907.0	03/14/08 14:45/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	752	pCi/L		100			1	D5072-92	02/22/08 15:00/eli-c
Radon 222 precision (±)	50.6	pCi/L					1	D5072-92	02/22/08 15:00/eli-c
TOTAL METALS ANALYSES									

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020220-001
Client Sample ID: DewBurd GW7002

Report Date: 05/08/08
Collection Date: 02/20/08 08:30
Date Received: 02/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/27/08 03:17/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/27/08 03:17/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/27/08 03:17/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/27/08 03:17/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/29/08 21:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/27/08 03:17/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/27/08 03:17/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/27/08 03:17/eli-c
Iron	1.25	mg/L		0.03		1	E200.7	02/29/08 21:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/27/08 03:17/eli-c
Manganese	0.37	mg/L		0.01		1	E200.8	02/27/08 03:17/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/24/08 10:51/eli-b
Molybdenum	ND	mg/L		0.01		1	E200.8	02/27/08 03:17/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/27/08 03:17/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/27/08 03:17/eli-c
Silver	ND	mg/L		0.005		5	E200.8	02/29/08 22:43/eli-c
Strontium	6.6	mg/L		0.1		1	E200.8	02/27/08 03:17/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/27/08 03:17/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	02/27/08 03:17/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/29/08 05:47/eli-c
DATA QUALITY								
A/C Balance (± 5)	-5.62	%				1	A1030 E	05/07/08 12:33/krs
Anions	28.0	meq/L				1	A1030 E	05/07/08 12:33/krs
Cations	25.0	meq/L				1	A1030 E	05/07/08 12:33/krs
Solids, Total Dissolved Calculated	1750	mg/L				1	A1030 E	05/07/08 12:33/krs
TDS Balance (0.80 - 1.20)	1.07	dec. %				1	A1030 E	05/07/08 12:33/krs

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-002
 Client Sample ID: DewBurd GW7

Report Date: 05/08/08
 Collection Date: 02/20/08 08:45
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	170	mg/L		5		1	A2320 B	02/26/08 16:01/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/26/08 16:01/sn
Bicarbonate as HCO3	207	mg/L		5		1	A2320 B	02/26/08 16:01/sn
Calcium	32.9	mg/L		0.5		1	E200.7	03/04/08 01:49/eli-c
Chloride	11	mg/L		1		1	E300.0	02/21/08 19:35/sn
Fluoride	0.3	mg/L		0.1		1	E300.0	02/21/08 19:35/sn
Magnesium	14.0	mg/L		0.5		1	E200.7	03/04/08 01:49/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	02/26/08 14:22/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/21/08 19:35/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/21/08 19:35/sn
Potassium	10.8	mg/L		0.5		1	E200.7	03/04/08 01:49/eli-c
Silica	7.5	mg/L		0.5		1	E200.7	03/04/08 01:49/eli-c
Sodium	276	mg/L	D	8		10	E200.7	03/03/08 20:39/eli-c
Sulfate	583	mg/L	D	3		50	E300.0	02/21/08 19:19/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1600	umhos/cm		5.0		1	A2510 B	02/27/08 12:51/ch
Oxidation-Reduction Potential	180	mV				1	A2580 B	02/22/08 00:00/sn
pH	8.14	s.u.		0.01		1	A4500-H B	02/26/08 00:00/ch
Sodium Adsorption Ratio (SAR)	10	Unitless		0.10		1	Calculation	03/04/08 01:49/krs
Solids, Total Dissolved TDS @ 180 C	990	mg/L		5		1	A2540 C	02/22/08 10:32/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/29/08 07:17/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/29/08 07:17/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/29/08 07:17/eli-c
Boron	ND	mg/L		0.1		1	E200.7	03/04/08 01:49/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/29/08 07:17/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/29/08 07:17/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/29/08 07:17/eli-c
Iron	ND	mg/L		0.03		1	E200.7	03/04/08 01:49/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/29/08 07:17/eli-c
Manganese	0.03	mg/L		0.01		1	E200.8	02/29/08 07:17/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/29/08 07:17/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/29/08 07:17/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/29/08 07:17/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/08 11:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/03/08 18:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-002
 Client Sample ID: DewBurd GW7

Report Date: 05/08/08
 Collection Date: 02/20/08 08:45
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	02/29/08 07:17/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/29/08 07:17/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/29/08 07:17/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/29/08 07:17/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/01/08 07:06/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/25/08 09:29/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/08 11:26/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	15.5	pCi/L		4.0		1	E900.0	03/07/08 03:32/eli-c
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	03/07/08 03:32/eli-c
Gross Beta	10.1	pCi/L		6.0		1	E900.0	03/07/08 03:32/eli-c
Gross Beta precision (±)	3.5	pCi/L				1	E900.0	03/07/08 03:32/eli-c
Lead 210	24	pCi/L		1.0		1	E909.0M	02/26/08 09:30/eli-c
Lead 210 precision (±)	3.2	pCi/L				1	E909.0M	02/26/08 09:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/27/08 13:30/eli-c
Radium 226	0.7	pCi/L		0.1		1	E903.0	03/06/08 15:27/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/06/08 15:27/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/29/08 14:00/eli-c
Gross Gamma	77	pCi/L		20		1	E901.1	02/22/08 16:15/eli-c
Gross Gamma precision (±)	29	pCi/L				1	E901.1	02/22/08 16:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	03/04/08 09:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	03/06/08 14:45/eli-c
Radium 226	ND	pCi/L		0.9		1	E903.0	03/11/08 17:06/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	03/14/08 14:45/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/08 14:45/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	242	pCi/L		100		1	D5072-92	02/22/08 15:00/eli-c
Radon 222 precision (±)	44.2	pCi/L				1	D5072-92	02/22/08 15:00/eli-c

TOTAL METALS ANALYSES

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-002
 Client Sample ID: DewBurd GW7

Report Date: 05/08/08
 Collection Date: 02/20/08 08:45
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/27/08 03:24/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/27/08 03:24/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/27/08 03:24/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/27/08 03:24/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/29/08 21:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/27/08 03:24/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/27/08 03:24/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/27/08 03:24/eli-c
Iron	0.41	mg/L		0.03		1	E200.7	02/29/08 21:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/27/08 03:24/eli-c
Manganese	0.03	mg/L		0.01		1	E200.8	02/27/08 03:24/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/24/08 10:58/eli-b
Molybdenum	ND	mg/L		0.01		1	E200.8	02/27/08 03:24/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/27/08 03:24/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/27/08 03:24/eli-c
Silver	ND	mg/L		0.005		5	E200.8	02/29/08 22:51/eli-c
Strontium	1.0	mg/L		0.1		1	E200.8	02/27/08 03:24/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/27/08 03:24/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/27/08 03:24/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/29/08 06:17/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.50	%				1	A1030 E	05/07/08 12:36/krs
Anions	15.9	meq/L				1	A1030 E	05/07/08 12:36/krs
Cations	15.1	meq/L				1	A1030 E	05/07/08 12:36/krs
Solids, Total Dissolved Calculated	1050	mg/L				1	A1030 E	05/07/08 12:36/krs
TDS Balance (0.80 - 1.20)	0.940	dec. %				1	A1030 E	05/07/08 12:36/krs

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-003
 Client Sample ID: DewBurd GW631

Report Date: 05/08/08
 Collection Date: 02/20/08 13:55
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	158	mg/L		5		1	A2320 B	02/26/08 16:03/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/26/08 16:03/sn
Bicarbonate as HCO3	193	mg/L		5		1	A2320 B	02/26/08 16:03/sn
Calcium	324	mg/L	D	1		10	E200.7	03/03/08 20:43/eli-c
Chloride	8	mg/L		1		1	E300.0	02/21/08 20:06/sn
Fluoride	0.2	mg/L		0.1		1	E300.0	02/21/08 20:06/sn
Magnesium	82.6	mg/L		0.5		1	E200.7	03/04/08 01:52/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/26/08 14:25/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/21/08 20:06/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/21/08 20:06/sn
Potassium	15.7	mg/L		0.5		1	E200.7	03/04/08 01:52/eli-c
Silica	6.9	mg/L		0.5		1	E200.7	03/04/08 01:52/eli-c
Sodium	77.1	mg/L	D	0.8		1	E200.7	03/04/08 01:52/eli-c
Sulfate	1250	mg/L	D	3		50	E300.0	02/21/08 19:50/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2420	umhos/cm		5.0		1	A2510 B	02/27/08 12:51/ch
Oxidation-Reduction Potential	180	mV				1	A2580 B	02/22/08 00:00/sn
pH	7.60	s.u.		0.01		1	A4500-H B	02/26/08 00:00/ch
Sodium Adsorption Ratio (SAR)	0.99	Unitless		0.10		1	Calculation	03/04/08 01:52/krs
Solids, Total Dissolved TDS @ 180 C	2000	mg/L		5		1	A2540 C	02/22/08 10:32/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/29/08 07:25/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/29/08 07:25/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/29/08 07:25/eli-c
Boron	0.1	mg/L		0.1		1	E200.7	03/04/08 01:52/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/29/08 07:25/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/29/08 07:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/29/08 07:25/eli-c
Iron	0.57	mg/L		0.03		1	E200.7	03/04/08 01:52/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/29/08 07:25/eli-c
Manganese	0.30	mg/L		0.01		1	E200.8	02/29/08 07:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/29/08 07:25/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/29/08 07:25/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/29/08 07:25/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/08 11:03/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/03/08 18:07/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-003
 Client Sample ID: DewBurd GW631

Report Date: 05/08/08
 Collection Date: 02/20/08 13:55
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	02/29/08 07:25/eli-c
Uranium	0.0027	mg/L		0.0003		1	E200.8	02/29/08 07:25/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/29/08 07:25/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/29/08 07:25/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/01/08 07:14/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/25/08 09:31/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/08 11:26/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	162	pCi/L		7.0		1	E900.0	03/07/08 03:32/eli-c
Gross Alpha precision (±)	12.2	pCi/L				1	E900.0	03/07/08 03:32/eli-c
Gross Beta	52.1	pCi/L		9.0		1	E900.0	03/07/08 03:32/eli-c
Gross Beta precision (±)	6.5	pCi/L				1	E900.0	03/07/08 03:32/eli-c
Lead 210	6.1	pCi/L		1.0		1	E909.0M	02/26/08 09:30/eli-c
Lead 210 precision (±)	1.8	pCi/L				1	E909.0M	02/26/08 09:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/27/08 13:30/eli-c
Radium 226	19.4	pCi/L		0.1		1	E903.0	03/06/08 15:27/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	03/06/08 15:27/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/29/08 14:00/eli-c
Gross Gamma	510	pCi/L		20		1	E901.1	02/22/08 16:15/eli-c
Gross Gamma precision (±)	46	pCi/L				1	E901.1	02/22/08 16:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	7.5	pCi/L		1.0		1	E909.0M	03/04/08 09:45/eli-c
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	03/04/08 09:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	03/06/08 14:45/eli-c
Radium 226	ND	pCi/L		0.9		1	E903.0	03/11/08 17:06/eli-c
Thorium 230	0.6	pCi/L		0.2		1	E907.0	03/14/08 14:45/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	03/14/08 14:45/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	3920	pCi/L		100		1	D5072-92	02/22/08 15:00/eli-c
Radon 222 precision (±)	77.0	pCi/L				1	D5072-92	02/22/08 15:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-003
 Client Sample ID: DewBurd GW631

Report Date: 05/08/08
 Collection Date: 02/20/08 13:55
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/27/08 03:32/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/27/08 03:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/27/08 03:32/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/27/08 03:32/eli-c
Boron	0.1	mg/L		0.1		1	E200.7	02/29/08 21:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/27/08 03:32/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/27/08 03:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/27/08 03:32/eli-c
Iron	1.06	mg/L		0.03		1	E200.7	02/29/08 21:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/27/08 03:32/eli-c
Manganese	0.28	mg/L		0.01		1	E200.8	02/27/08 03:32/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/06/08 09:04/eli-b
Molybdenum	ND	mg/L		0.01		1	E200.8	02/27/08 03:32/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/27/08 03:32/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	02/27/08 03:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/03/08 18:14/eli-c
Strontium	5.6	mg/L		0.1		1	E200.8	02/27/08 03:32/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/27/08 03:32/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	02/27/08 03:32/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/29/08 06:25/eli-c
DATA QUALITY								
A/C Balance (± 5)	-4.87	%				1	A1030 E	05/07/08 13:15/krs
Anions	29.5	meq/L				1	A1030 E	05/07/08 13:15/krs
Cations	26.8	meq/L				1	A1030 E	05/07/08 13:15/krs
Solids, Total Dissolved Calculated	1880	mg/L				1	A1030 E	05/07/08 13:15/krs
TDS Balance (0.80 - 1.20)	1.05	dec. %				1	A1030 E	05/07/08 13:15/krs

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-004
 Client Sample ID: DewBurd GW13

Report Date: 05/08/08
 Collection Date: 02/20/08 14:41
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	160	mg/L		5		1	A2320 B	02/26/08 16:05/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/26/08 16:05/sn
Bicarbonate as HCO3	195	mg/L		5		1	A2320 B	02/26/08 16:05/sn
Calcium	58	mg/L	D	1		10	E200.7	03/03/08 21:05/eli-c
Chloride	10	mg/L		1		1	E300.0	02/21/08 20:36/sn
Fluoride	0.5	mg/L		0.1		1	E300.0	02/21/08 20:36/sn
Magnesium	22.4	mg/L		0.5		10	E200.7	03/03/08 21:05/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/26/08 14:26/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/21/08 20:36/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/21/08 20:36/sn
Potassium	11.8	mg/L		0.5		10	E200.7	03/03/08 21:05/eli-c
Silica	6.5	mg/L		0.5		1	E200.7	03/04/08 01:55/eli-c
Sodium	173	mg/L	D	8		10	E200.7	03/03/08 21:05/eli-c
Sulfate	499	mg/L	D	3		50	E300.0	02/21/08 20:21/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1330	umhos/cm		5.0		1	A2510 B	02/27/08 12:52/ch
Oxidation-Reduction Potential	200	mV				1	A2580 B	02/22/08 00:00/sn
pH	8.05	s.u.		0.01		1	A4500-H B	02/26/08 00:00/ch
Sodium Adsorption Ratio (SAR)	4.9	Unitless		0.10		1	Calculation	03/03/08 21:05/kr
Solids, Total Dissolved TDS @ 180 C	850	mg/L		5		1	A2540 C	02/22/08 10:33/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/01/08 05:36/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/29/08 07:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/29/08 07:55/eli-c
Boron	ND	mg/L		0.1		1	E200.7	03/04/08 01:55/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/29/08 07:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/29/08 07:55/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/29/08 07:55/eli-c
Iron	ND	mg/L		0.03		1	E200.7	03/04/08 01:55/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/29/08 07:55/eli-c
Manganese	0.16	mg/L		0.01		1	E200.8	02/29/08 07:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/29/08 07:55/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/29/08 07:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/29/08 07:55/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/08 11:06/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/03/08 18:21/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-004
 Client Sample ID: DewBurd GW13

Report Date: 05/08/08
 Collection Date: 02/20/08 14:41
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	02/29/08 07:55/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/29/08 07:55/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/29/08 07:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/29/08 07:55/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/01/08 07:21/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/25/08 09:33/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/08 11:26/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	19.5	pCi/L		3.0		1	E900.0	03/07/08 03:32/eli-c
Gross Alpha precision (±)	3.4	pCi/L				1	E900.0	03/07/08 03:32/eli-c
Gross Beta	11.4	pCi/L		5.0		1	E900.0	03/07/08 03:32/eli-c
Gross Beta precision (±)	3.0	pCi/L				1	E900.0	03/07/08 03:32/eli-c
Lead 210	4.7	pCi/L		1.0		1	E909.0M	02/26/08 09:30/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	02/26/08 09:30/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	02/27/08 13:30/eli-c
Polonium 210 precision (±)	0.9	pCi/L				1	RMO-3008	02/27/08 13:30/eli-c
Radium 226	1.1	pCi/L		0.1		1	E903.0	03/06/08 15:27/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/06/08 15:27/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/29/08 14:00/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	02/22/08 16:15/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	02/22/08 16:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	03/04/08 09:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	03/06/08 14:45/eli-c
Radium 226	1.6	pCi/L		0.9		1	E903.0	03/11/08 17:06/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	03/11/08 17:06/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	03/14/08 14:45/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	03/14/08 14:45/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	258	pCi/L		100		1	D5072-92	02/22/08 15:00/eli-c
Radon 222 precision (±)	42.6	pCi/L				1	D5072-92	02/22/08 15:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-004
 Client Sample ID: DewBurd GW13

Report Date: 05/08/08
 Collection Date: 02/20/08 14:41
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	02/27/08 03:39/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	02/27/08 03:39/eli-c
Barium	ND	mg/L		0.1			1	E200.8	02/27/08 03:39/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	02/27/08 03:39/eli-c
Boron	ND	mg/L		0.1			1	E200.7	02/29/08 21:10/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	02/27/08 03:39/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	02/27/08 03:39/eli-c
Copper	ND	mg/L		0.01			1	E200.8	02/27/08 03:39/eli-c
Iron	3.11	mg/L		0.03			1	E200.7	02/29/08 21:10/eli-c
Lead	ND	mg/L		0.001			1	E200.8	02/27/08 03:39/eli-c
Manganese	0.16	mg/L		0.01			1	E200.8	02/27/08 03:39/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	03/06/08 09:06/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	02/27/08 03:39/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	02/27/08 03:39/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	02/27/08 03:39/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/03/08 18:27/eli-c
Strontium	1.5	mg/L		0.1			1	E200.8	02/27/08 03:39/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	02/27/08 03:39/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	02/27/08 03:39/eli-c
Zinc	0.07	mg/L		0.01			1	E200.8	02/29/08 06:32/eli-c
DATA QUALITY									
A/C Balance (± 5)	-4.96	%					1	A1030 E	05/07/08 13:07/krs
Anions	13.9	meq/L					1	A1030 E	05/07/08 13:07/krs
Cations	12.6	meq/L					1	A1030 E	05/07/08 13:07/krs
Solids, Total Dissolved Calculated	888	mg/L					1	A1030 E	05/07/08 13:07/krs
TDS Balance (0.80 - 1.20)	0.960	dec. %					1	A1030 E	05/07/08 13:07/krs

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-005
 Client Sample ID: DewBurd GW628

Report Date: 05/08/08
 Collection Date: 02/20/08 18:30
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	162	mg/L		5		1	A2320 B	02/26/08 16:07/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/26/08 16:07/sn
Bicarbonate as HCO3	193	mg/L		5		1	A2320 B	02/26/08 16:07/sn
Calcium	50.0	mg/L		0.5		1	E200.7	05/05/08 17:06/eli-c
Chloride	29	mg/L		1		1	E300.0	02/21/08 21:07/sn
Fluoride	0.4	mg/L		0.1		1	E300.0	02/21/08 21:07/sn
Magnesium	20.6	mg/L		0.5		1	E200.7	05/05/08 17:06/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/26/08 14:27/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/21/08 21:07/sn
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/21/08 21:07/sn
Potassium	9.3	mg/L		0.5		1	E200.7	05/05/08 17:06/eli-c
Silica	5.0	mg/L		0.5		1	E200.7	05/05/08 17:06/eli-c
Sodium	306	mg/L	D	0.8		1	E200.7	05/05/08 17:06/eli-c
Sulfate	651	mg/L		1		1	E300.0	02/21/08 21:07/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1510	umhos/cm		5.0		1	A2510 B	02/27/08 12:54/ch
Oxidation-Reduction Potential	110	mV				1	A2580 B	02/22/08 00:00/sn
pH	8.32	s.u.		0.01		1	A4500-H B	02/26/08 00:00/ch
Sodium Adsorption Ratio (SAR)	9.2	Unitless		0.10		1	Calculation	05/05/08 17:06/krs
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C	02/22/08 10:34/sn
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/01/08 05:44/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/29/08 08:02/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/29/08 08:02/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	05/05/08 17:06/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/29/08 08:02/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/29/08 08:02/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/29/08 08:02/eli-c
Iron	ND	mg/L		0.03		1	E200.7	05/05/08 17:06/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/29/08 08:02/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	02/29/08 08:02/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/29/08 08:02/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/29/08 08:02/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/29/08 08:02/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/08 11:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/03/08 19:15/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-005
 Client Sample ID: DewBurd GW628

Report Date: 05/08/08
 Collection Date: 02/20/08 18:30
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	02/29/08 08:02/eli-c
Uranium	0.0030	mg/L		0.0003		1	E200.8	02/29/08 08:02/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/29/08 08:02/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/29/08 08:02/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/01/08 07:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/25/08 09:35/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/08 11:26/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	64.5	pCi/L		4.0		1	E900.0	03/07/08 03:32/eli-c
Gross Alpha precision (±)	5.8	pCi/L				1	E900.0	03/07/08 03:32/eli-c
Gross Beta	19.0	pCi/L		6.0		1	E900.0	03/07/08 03:32/eli-c
Gross Beta precision (±)	3.7	pCi/L				1	E900.0	03/07/08 03:32/eli-c
Lead 210	14	pCi/L		1.0		1	E909.0M	02/26/08 09:30/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/26/08 09:30/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008	02/27/08 13:30/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	02/27/08 13:30/eli-c
Radium 226	9.0	pCi/L		0.1		1	E903.0	03/06/08 15:27/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	03/06/08 15:27/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/29/08 14:00/eli-c
Gross Gamma	440	pCi/L		20		1	E901.1	02/22/08 16:15/eli-c
Gross Gamma precision (±)	42	pCi/L				1	E901.1	02/22/08 16:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.2	pCi/L		1.0		1	E909.0M	03/04/08 09:45/eli-c
Lead 210 precision (±)	0.54	pCi/L				1	E909.0M	03/04/08 09:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	03/06/08 14:45/eli-c
Radium 226	1.7	pCi/L		1.0		1	E903.0	03/11/08 17:06/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	03/11/08 17:06/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	03/26/08 14:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/26/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	4360	pCi/L		100		1	D5072-92	02/22/08 15:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08020220-005
 Client Sample ID: DewBurd GW628

Report Date: 05/08/08
 Collection Date: 02/20/08 18:30
 Date Received: 02/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Radon 222 precision (±)	78.4	pCi/L					1	D5072-92	02/22/08 15:00/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	02/27/08 03:47/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	02/27/08 03:47/eli-c
Barium	ND	mg/L		0.1			1	E200.8	02/27/08 03:47/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	02/27/08 03:47/eli-c
Boron	ND	mg/L		0.1			1	E200.7	02/29/08 21:14/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	02/27/08 03:47/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	02/27/08 03:47/eli-c
Copper	ND	mg/L		0.01			1	E200.8	02/27/08 03:47/eli-c
Iron	0.70	mg/L		0.03			1	E200.7	02/29/08 21:14/eli-c
Lead	ND	mg/L		0.001			1	E200.8	02/27/08 03:47/eli-c
Manganese	0.09	mg/L		0.01			1	E200.8	02/27/08 03:47/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	03/24/08 11:00/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	02/27/08 03:47/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	02/27/08 03:47/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	02/27/08 03:47/eli-c
Silver	ND	mg/L		0.005			5	E200.8	02/29/08 23:36/eli-c
Strontium	0.9	mg/L		0.1			1	E200.8	02/27/08 03:47/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	02/27/08 03:47/eli-c
Uranium	0.0031	mg/L		0.0003			1	E200.8	02/27/08 03:47/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	02/29/08 06:40/eli-c
DATA QUALITY									
A/C Balance (± 5)	0.362	%					1	A1030 E	05/07/08 13:10/krs
Anions	17.6	meq/L					1	A1030 E	05/07/08 13:10/krs
Cations	17.8	meq/L					1	A1030 E	05/07/08 13:10/krs
Solids, Total Dissolved Calculated	1180	mg/L					1	A1030 E	05/07/08 13:10/krs
TDS Balance (0.80 - 1.20)	0.780	dec. %					1	A1030 E	05/07/08 13:10/krs

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080225A-ALK-SEL-W		
Sample ID: MBLK1_080225A	Method Blank						Run: PH_COND1-R_080226A	02/26/08 12:12	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_080225A	Laboratory Control Sample						Run: PH_COND1-R_080226A	02/26/08 12:16	
Alkalinity, Total as CaCO3	1000	mg/L	5.0	102	90	110			
Sample ID: R08020220-005AMS	Sample Matrix Spike						Run: PH_COND1-R_080226A	02/26/08 16:10	
Alkalinity, Total as CaCO3	264	mg/L	5.0	96	80	120			
Sample ID: R08020220-005AMSD	Sample Matrix Spike Duplicate						Run: PH_COND1-R_080226A	02/26/08 16:13	
Alkalinity, Total as CaCO3	250	mg/L	5.0	83	80	120	5.4	10	
Method: A2510 B							Batch: 080227_1_COND-PROBE-W		
Sample ID: LCS1-1_080227	Laboratory Control Sample						Run: PH_COND2-R_080227A	02/27/08 12:33	
Conductivity @ 25 C	156	umhos/cm	5.0	104	90	110			
Sample ID: LCS2-1_080227	Laboratory Control Sample						Run: PH_COND2-R_080227A	02/27/08 12:35	
Conductivity @ 25 C	5080	umhos/cm	5.0	102	90	110			
Sample ID: LCS_COND-1_080227	Laboratory Control Sample						Run: PH_COND2-R_080227A	02/27/08 12:42	
Conductivity @ 25 C	1310	umhos/cm	5.0	93	90	110			
Sample ID: MBLK-1_080227	Method Blank						Run: PH_COND2-R_080227A	02/27/08 13:07	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08020171-002ADUP	Sample Duplicate						Run: PH_COND2-R_080227A	02/27/08 12:47	
Conductivity @ 25 C	530	umhos/cm	5.0				1.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080222A-SLDS-TDS-W		
Sample ID: MBLK1_080222A	Method Blank					Run: BAL-4-R_080222A			02/22/08 10:18
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_080222A	Laboratory Control Sample					Run: BAL-4-R_080222A			02/22/08 10:19
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	100	90	110			
Sample ID: R08020218-008AMS	Sample Matrix Spike					Run: BAL-4-R_080222A			02/22/08 10:28
Solids, Total Dissolved TDS @ 180 C	1500	mg/L	5.0	116	80	120			
Sample ID: R08020218-008AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080222A			02/22/08 10:29
Solids, Total Dissolved TDS @ 180 C	1500	mg/L	5.0	113	80	120	0.4	10	
Sample ID: R08020228-003AMS	Sample Matrix Spike					Run: BAL-4-R_080222A			02/22/08 10:38
Solids, Total Dissolved TDS @ 180 C	3000	mg/L	5.0	116	80	120			
Sample ID: R08020228-003AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080222A			02/22/08 10:39
Solids, Total Dissolved TDS @ 180 C	3000	mg/L	5.0	126	80	120	0.7	10	S
Method: A2580 B							Batch: R33568		
Sample ID: LCS_022208A	Laboratory Control Sample					Run: PH_COND1-R_080222A			02/22/08 00:00
Oxidation-Reduction Potential	490	mV		102	95	105			
Method: A3114 B							Batch: C_SE3114-080225A		
Sample ID: MBLK	Method Blank					Run: SUB-C97291			02/25/08 10:55
Selenium	0.0003	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample					Run: SUB-C97291			02/25/08 10:57
Selenium	0.049	mg/L	0.0010	98	90	110			
Sample ID: R08020220-001E	Sample Matrix Spike					Run: SUB-C97291			02/25/08 11:10
Selenium	0.047	mg/L	0.0010	91	85	115			
Sample ID: R08020220-001E	Sample Matrix Spike Duplicate					Run: SUB-C97291			02/25/08 11:12
Selenium	0.049	mg/L	0.0010	96	85	115	5.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV3114-080225		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05			Run: SUB-C97273			02/25/08 09:22
Sample ID: 288-30-5 Selenium-IV	Laboratory Control Sample 0.050 mg/L		0.0010	100	90	110			02/25/08 09:25
Sample ID: R08020220-001E Selenium-IV	Sample Matrix Spike 0.047 mg/L		0.0010	93	85	115			02/25/08 09:38
Sample ID: R08020220-001E Selenium-IV	Sample Matrix Spike Duplicate 0.045 mg/L		0.0010	88	85	115	4.7	10	02/25/08 09:40
Method: A4500-H B							Batch: 080226_1_PH-W		
Sample ID: LCS_pH-1_080226 pH	Laboratory Control Sample 6.96 s.u.		0.010	101	98.55	101.45			02/26/08 00:00
Sample ID: R08020171-003ADUP pH	Sample Duplicate 6.82 s.u.		0.010				0.0	1.25	02/26/08 00:00
Method: A4500-NH3 G							Batch: A2008-02-26_2_NH3_01		
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26 mg/L		0.10	102	90	110			02/26/08 11:54
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27 mg/L		0.10	106	90	110			02/26/08 11:55
Sample ID: MBLK-5 Nitrogen, Ammonia as N	Method Blank ND mg/L		0.01						02/26/08 11:56
Sample ID: R08020220-001BDUP Nitrogen, Ammonia as N	Sample Duplicate 0.22 mg/L		0.10				0.0	10	02/26/08 14:21
Sample ID: R08020220-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.57 mg/L		0.10	96	80	120			02/26/08 14:24

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92							Batch: C_R97324		
Sample ID: C08020802-002CDUP	Sample Duplicate				Run: SUB-C97324			02/22/08 15:00	
Radon 222	287	pCi/L	100				14	30	
Sample ID: MB-R97324	Method Blank				Run: SUB-C97324			02/22/08 15:00	
Radon 222	ND	pCi/L							
Sample ID: LCS-R97324	Laboratory Control Sample				Run: SUB-C97324			02/22/08 15:00	
Radon 222	302	pCi/L	100	99	70	130			
Method: E200.7							Batch: C_17842		
Sample ID: MB-17842	Method Blank				Run: SUB-C97563			02/29/08 11:55	
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS-17842	Laboratory Control Sample				Run: SUB-C97563			02/29/08 12:31	
Boron	0.493	mg/L	0.10	99	85	115			
Iron	0.500	mg/L	0.030	100	85	115			
Sample ID: R08020220-005D	Sample Matrix Spike				Run: SUB-C97563			02/29/08 21:17	
Boron	0.574	mg/L	0.10	97	70	130			
Iron	1.17	mg/L	0.030	94	70	130			
Sample ID: R08020220-005D	Sample Matrix Spike Duplicate				Run: SUB-C97563			02/29/08 21:20	
Boron	0.588	mg/L	0.10	100	70	130	2.4	20	
Iron	1.19	mg/L	0.030	98	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R97620		
Sample ID: LFB-TM	Laboratory Fortified Blank			Run: SUB-C97620			03/03/08 11:30		
Silica	2.0	mg/L	0.10	99	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank			Run: SUB-C97620			03/03/08 11:33		
Calcium	25	mg/L	0.50	99	85	125			
Magnesium	24	mg/L	0.50	95	85	125			
Potassium	25	mg/L	0.50	101	85	125			
Sodium	25	mg/L	0.76	98	85	125			
Sample ID: LRB	Laboratory Reagent Blank			Run: SUB-C97620			03/03/08 11:40		
Silica	ND	mg/L	0.10						
Boron	ND	mg/L	0.10						
Calcium	ND	mg/L	0.50						
Iron	ND	mg/L	0.030						
Magnesium	ND	mg/L	0.50						
Potassium	0.050	mg/L	0.50						
Sodium	ND	mg/L	0.76						
Sample ID: C08020768-001FMS	Sample Matrix Spike			Run: SUB-C97620			03/03/08 20:19		
Boron	0.975	mg/L	0.10	98	70	130			
Calcium	55.8	mg/L	0.50	88	70	130			
Iron	0.948	mg/L	0.030	94	70	130			
Magnesium	45.3	mg/L	0.50	88	70	130			
Potassium	106	mg/L	0.50	88	70	130			
Silica	16.8	mg/L	0.10		70	130			A
Sodium	49.9	mg/L	0.76	92	70	130			
Sample ID: C08020768-001FMSD	Sample Matrix Spike Duplicate			Run: SUB-C97620			03/03/08 20:23		
Boron	1.02	mg/L	0.10	102	70	130	4.8	20	
Calcium	57.7	mg/L	0.50	91	70	130	3.3	20	
Iron	1.00	mg/L	0.030	99	70	130	5.8	20	
Magnesium	47.3	mg/L	0.50	92	70	130	4.2	20	
Potassium	108	mg/L	0.50	89	70	130	2.1	20	
Silica	17.7	mg/L	0.10		0	0			A
Sodium	49.0	mg/L	0.76	90	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 05/08/08

Project: Edgemont

Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17842		
Sample ID: MB-17842	Method Blank				Run: SUB-C97361		02/27/08 01:32		
Antimony	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Beryllium	ND	mg/L	7E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	0.0006	mg/L	6E-05						
Selenium	0.0007	mg/L	0.0002						
Strontium	ND	mg/L	7E-05						
Thallium	ND	mg/L	5E-05						
Uranium	ND	mg/L	4E-05						
Sample ID: LCS1-17842	Laboratory Control Sample				Run: SUB-C97361		02/27/08 01:39		
Antimony	0.0186	mg/L	0.050	93	80	120			
Arsenic	0.0196	mg/L	0.0010	98	80	120			
Barium	0.0198	mg/L	0.10	99	80	120			
Beryllium	0.0208	mg/L	0.010	104	80	120			
Cadmium	0.0195	mg/L	0.010	97	80	120			
Chromium	0.0190	mg/L	0.050	95	80	120			
Copper	0.0192	mg/L	0.010	96	80	120			
Lead	0.0190	mg/L	0.050	95	80	120			
Manganese	0.0187	mg/L	0.010	94	80	120			
Molybdenum	0.0189	mg/L	0.10	95	80	120			
Nickel	0.0194	mg/L	0.050	97	80	120			
Selenium	0.0928	mg/L	0.0010	92	80	120			
Strontium	0.00959	mg/L	0.10	96	80	120			
Thallium	0.0187	mg/L	0.10	94	80	120			
Uranium	0.0194	mg/L	0.00030	97	80	120			
Sample ID: LCS-17842	Laboratory Control Sample				Run: SUB-C97361		02/27/08 01:47		
Antimony	0.510	mg/L	0.050	102	85	115			
Arsenic	0.493	mg/L	0.0013	99	85	115			
Barium	0.518	mg/L	0.10	104	85	115			
Beryllium	0.524	mg/L	0.010	105	85	115			
Cadmium	0.496	mg/L	0.010	99	85	115			
Chromium	0.506	mg/L	0.050	101	85	115			
Copper	0.483	mg/L	0.010	97	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_17842		
Sample ID: LCS-17842	Laboratory Control Sample			Run: SUB-C97361			02/27/08 01:47		
Lead	0.501	mg/L	0.050	100	85	115			
Manganese	0.489	mg/L	0.010	98	85	115			
Molybdenum	0.497	mg/L	0.10	99	85	115			
Nickel	0.488	mg/L	0.050	98	85	115			
Selenium	0.482	mg/L	0.0022	96	85	115			
Strontium	0.463	mg/L	0.10	93	85	115			
Thallium	0.499	mg/L	0.10	100	85	115			
Uranium	0.510	mg/L	0.00038	102	85	115			
Sample ID: R08020220-005D	Post Digestion Spike			Run: SUB-C97361			02/27/08 04:17		
Antimony	0.0758	mg/L	0.050	108	70	130			
Arsenic	0.0701	mg/L	0.0010	98	70	130			
Barium	0.0807	mg/L	0.10	102	70	130			
Beryllium	0.0673	mg/L	0.010	96	70	130			
Cadmium	0.0674	mg/L	0.010	96	70	130			
Chromium	0.0679	mg/L	0.050	97	70	130			
Copper	0.0652	mg/L	0.010	93	70	130			
Lead	0.0702	mg/L	0.050	100	70	130			
Manganese	0.160	mg/L	0.010	97	70	130			
Molybdenum	0.0774	mg/L	0.10	107	70	130			
Nickel	0.0650	mg/L	0.050	92	70	130			
Selenium	0.138	mg/L	0.0010	91	70	130			
Strontium	0.926	mg/L	0.10		70	130			A
Thallium	0.0691	mg/L	0.10	99	70	130			
Uranium	0.0768	mg/L	0.00030	105	70	130			
Sample ID: R08020220-005D	Post Digestion Spike Duplicate			Run: SUB-C97361			02/27/08 04:25		
Antimony	0.0741	mg/L	0.050	106	70	130	2.3	20	
Arsenic	0.0694	mg/L	0.0010	97	70	130	0.9	20	
Barium	0.0797	mg/L	0.10	101	70	130	0.0	20	
Beryllium	0.0631	mg/L	0.010	90	70	130	6.6	20	
Cadmium	0.0682	mg/L	0.010	97	70	130	1.2	20	
Chromium	0.0668	mg/L	0.050	95	70	130	1.7	20	
Copper	0.0646	mg/L	0.010	92	70	130	0.8	20	
Lead	0.0698	mg/L	0.050	100	70	130	0.6	20	
Manganese	0.159	mg/L	0.010	97	70	130	0.2	20	
Molybdenum	0.0771	mg/L	0.10	106	70	130	0.0	20	
Nickel	0.0650	mg/L	0.050	92	70	130	0.0	20	
Selenium	0.137	mg/L	0.0010	91	70	130	1.0	20	
Strontium	0.940	mg/L	0.10		70	130	1.5	20	A
Thallium	0.0692	mg/L	0.10	99	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17842
Sample ID: R08020220-005D	Post Digestion Spike Duplicate					Run: SUB-C97361			02/27/08 04:25
Uranium	0.0764	mg/L	0.00030	105	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97512		
Sample ID: LRB	Method Blank		Run: SUB-C97512				02/28/08 16:39		
Aluminum	ND	mg/L	0.0002						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	0.002	mg/L	0.0002						
Chromium	ND	mg/L	0.0001						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	3E-05						
Mercury	0.0001	mg/L	6E-06						
Molybdenum	0.001	mg/L	7E-05						
Nickel	ND	mg/L	8E-05						
Thorium 232	8E-05	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	9E-05						
Zinc	ND	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C97512				02/28/08 16:47		
Aluminum	0.0503	mg/L	0.0010	101	85	115			
Arsenic	0.0533	mg/L	0.0010	107	85	115			
Barium	0.0529	mg/L	0.0010	106	85	115			
Cadmium	0.0540	mg/L	0.0010	104	85	115			
Chromium	0.0523	mg/L	0.0010	105	85	115			
Copper	0.0541	mg/L	0.0010	108	85	115			
Lead	0.0532	mg/L	0.0010	106	85	115			
Manganese	0.0528	mg/L	0.0010	106	85	115			
Mercury	0.00537	mg/L	0.0010	105	85	115			
Molybdenum	0.0541	mg/L	0.0010	105	85	115			
Nickel	0.0540	mg/L	0.0010	108	85	115			
Thorium 232	0.0529	mg/L	0.0010	106	85	115			
Uranium	0.0538	mg/L	0.00030	108	85	115			
Vanadium	0.0523	mg/L	0.0010	105	85	115			
Zinc	0.0554	mg/L	0.0021	111	85	115			
Sample ID: C08020768-002FMS4	Post Digestion Spike		Run: SUB-C97512				02/29/08 08:32		
Aluminum	0.0416	mg/L	0.10	83	70	130			
Arsenic	0.0532	mg/L	0.0010	104	70	130			
Barium	0.0895	mg/L	0.10	96	70	130			
Cadmium	0.0503	mg/L	0.0010	101	70	130			
Chromium	0.0518	mg/L	0.050	103	70	130			
Copper	0.0581	mg/L	0.010	99	70	130			
Lead	0.0512	mg/L	0.0010	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97512		
Sample ID: C08020768-002FMS4	Post Digestion Spike			Run: SUB-C97512			02/29/08 08:32		
Manganese	0.0523	mg/L	0.010	104	70	130			
Mercury	0.00511	mg/L	0.0010	102	70	130			
Molybdenum	0.0525	mg/L	0.10	96	70	130			
Nickel	0.0467	mg/L	0.050	93	70	130			
Thorium 232	0.0495	mg/L	0.0010	99	70	130			
Uranium	0.0533	mg/L	0.00030	101	70	130			
Vanadium	0.0532	mg/L	0.10	106	70	130			
Zinc	0.0915	mg/L	0.010	103	70	130			
Sample ID: C08020768-002FMSD4	Post Digestion Spike Duplicate			Run: SUB-C97512			02/29/08 08:40		
Aluminum	0.0423	mg/L	0.10	85	70	130	0.0	20	
Arsenic	0.0529	mg/L	0.0010	104	70	130	0.5	20	
Barium	0.0920	mg/L	0.10	101	70	130	0.0	20	
Cadmium	0.0504	mg/L	0.0010	101	70	130	0.2	20	
Chromium	0.0522	mg/L	0.050	104	70	130	0.9	20	
Copper	0.0581	mg/L	0.010	99	70	130	0.1	20	
Lead	0.0516	mg/L	0.0010	102	70	130	0.8	20	
Manganese	0.0521	mg/L	0.010	104	70	130	0.5	20	
Mercury	0.00517	mg/L	0.0010	103	70	130	1.2	20	
Molybdenum	0.0542	mg/L	0.10	99	70	130	0.0	20	
Nickel	0.0463	mg/L	0.050	93	70	130	0.0	20	
Thorium 232	0.0497	mg/L	0.0010	99	70	130	0.5	20	
Uranium	0.0529	mg/L	0.00030	100	70	130	0.7	20	
Vanadium	0.0530	mg/L	0.10	105	70	130	0.0	20	
Zinc	0.0923	mg/L	0.010	105	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R97552		
Sample ID: LRB	Method Blank				Run: SUB-C97552		02/29/08 15:24		
Aluminum	ND	mg/L	0.0002						
Uranium	ND	mg/L	4E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C97552		02/29/08 15:32		
Aluminum	0.0487	mg/L	0.0010	95	85	115			
Uranium	0.0551	mg/L	0.00030	110	85	115			
Sample ID: MB-17899	Method Blank				Run: SUB-C97552		03/01/08 06:36		
Uranium	0.0001	mg/L	4E-05						
Sample ID: LCS1-17899	Laboratory Control Sample				Run: SUB-C97552		03/01/08 06:44		
Uranium	0.0491	mg/L	0.00030	98	80	120			
Sample ID: R08020220-005I	Post Digestion Spike				Run: SUB-C97552		03/01/08 07:36		
Aluminum	2.97	mg/L	0.10		70	130			A
Uranium	0.0506	mg/L	0.00030	101	70	130			
Sample ID: R08020220-005I	Post Digestion Spike Duplicate				Run: SUB-C97552		03/01/08 08:06		
Aluminum	2.95	mg/L	0.10		70	130	0.5	20	A
Uranium	0.0504	mg/L	0.00030	100	70	130	0.4	20	
Method: E200.8							Batch: C_R97625		
Sample ID: LRB	Method Blank				Run: SUB-C97625		03/03/08 12:50		
Silver	0.001	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C97625		03/03/08 12:56		
Silver	0.0209	mg/L	0.0010	104	85	115			
Sample ID: C08020752-003CMS	Sample Matrix Spike				Run: SUB-C97625		03/03/08 16:40		
Silver	0.0824	mg/L	0.010	82	70	130			
Sample ID: C08020752-003CMSD	Sample Matrix Spike Duplicate				Run: SUB-C97625		03/03/08 16:51		
Silver	0.0823	mg/L	0.010	82	70	130	0.2	20	
Sample ID: R08020220-005C	Sample Matrix Spike				Run: SUB-C97625		03/03/08 19:22		
Silver	0.0120	mg/L	0.010	60	70	130			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: R08020220-005C	Sample Matrix Spike Duplicate				Run: SUB-C97625		03/03/08 19:29		
Silver	0.0112	mg/L	0.010	56	70	130	6.7	20	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_31291		
Sample ID: MB-31291	Method Blank								
Mercury	ND	mg/L	5E-05						Run: SUB-C97764 03/06/08 07:45
Sample ID: LFB-31291	Laboratory Fortified Blank								
Mercury	0.0021	mg/L	0.0010	106	85	115			Run: SUB-C97764 03/06/08 07:49
Sample ID: R08020220-004D	Sample Matrix Spike								
Mercury	0.0018	mg/L	0.0010	92	70	130			Run: SUB-C97764 03/06/08 09:09
Sample ID: R08020220-004D	Sample Matrix Spike Duplicate								
Mercury	0.0018	mg/L	0.0010	89	70	130	3.3	30	Run: SUB-C97764 03/06/08 09:16
Sample ID: B08020433-001CMS	Sample Matrix Spike								
Mercury	0.0017	mg/L	0.0010	87	70	130			Run: SUB-C97764 03/06/08 07:56
Sample ID: B08020433-001CMSD	Sample Matrix Spike Duplicate								
Mercury	0.0018	mg/L	0.0010	89	70	130	1.7	30	Run: SUB-C97764 03/06/08 07:58
Method: E245.1							Batch: C_B_31543		
Sample ID: MB-31543	Method Blank								
Mercury	ND	mg/L	5E-05						Run: SUB-C98552 03/24/08 10:46
Sample ID: LFB-31543	Laboratory Fortified Blank								
Mercury	0.0019	mg/L	0.0010	94	85	115			Run: SUB-C98552 03/24/08 10:49
Sample ID: R08020220-001D	Sample Matrix Spike								
Mercury	0.0016	mg/L	0.0010	82	70	130			Run: SUB-C98552 03/24/08 10:53
Sample ID: R08020220-001D	Sample Matrix Spike Duplicate								
Mercury	0.0018	mg/L	0.0010	89	70	130	8.8	30	Run: SUB-C98552 03/24/08 10:56
Sample ID: B08031358-013CMS	Sample Matrix Spike								
Mercury	0.0023	mg/L	0.0010	113	70	130			Run: SUB-C98552 03/24/08 11:31
Sample ID: B08031358-013CMSD	Sample Matrix Spike Duplicate								
Mercury	0.0020	mg/L	0.0010	99	70	130	13	30	Run: SUB-C98552 03/24/08 11:33
Method: E245.1							Analytical Run: SUB-C97764		
Sample ID: QCS	Initial Calibration Verification Standard								
Mercury	0.0021	mg/L	0.0010	106	90	110			03/06/08 07:37
Sample ID: QCS	Initial Calibration Verification Standard								
Mercury	0.0021	mg/L	0.0010	105	90	110			03/06/08 14:36

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Analytical Run: SUB-C98552		
Sample ID: QCS	Initial Calibration Verification Standard						03/24/08 10:39		
Mercury	0.0018	mg/L	0.0010	92	90	110			
Method: E300.0							Batch: R33567		
Sample ID: LFB0802212544-1	Laboratory Fortified Blank			Run: DIONEX_080221A			02/21/08 17:47		
Chloride	5.00	mg/L	0.50	100	90	110			
Fluoride	2.06	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.55	mg/L	0.10	102	90	110			
Nitrogen, Nitrite as N	2.53	mg/L	0.10	101	90	110			
Sulfate	14.8	mg/L	1.0	99	90	110			
Sample ID: LFB0802212544-1	Laboratory Fortified Blank			Run: DIONEX_080221A			02/21/08 18:02		
Chloride	5.02	mg/L	0.50	100	90	110			
Fluoride	2.06	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.56	mg/L	0.10	102	90	110			
Nitrogen, Nitrite as N	2.52	mg/L	0.10	101	90	110			
Sulfate	14.8	mg/L	1.0	99	90	110			
Sample ID: R08020220-001AMS	Sample Matrix Spike			Run: DIONEX_080221A			02/21/08 18:33		
Chloride	259	mg/L	5.4	88	80	120			
Fluoride	103	mg/L	0.56	103	80	120			
Nitrogen, Nitrate as N	126	mg/L	1.3	101	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120			
Sulfate	1700	mg/L	3.4	82	80	120			
Sample ID: R08020220-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080221A			02/21/08 18:49		
Chloride	257	mg/L	5.4	87	80	120	0.6	10	
Fluoride	103	mg/L	0.56	103	80	120	0.8	10	
Nitrogen, Nitrate as N	125	mg/L	1.3	100	80	120	0.8	10	
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120	0.0	10	
Sulfate	1700	mg/L	3.4	82	80	120	0.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0402		
Sample ID: MB-GrAB-0402	Method Blank								
Gross Alpha	2	pCi/L							
Gross Beta	-1	pCi/L							
Sample ID: UNAT-GrAB-0402	Laboratory Control Sample								
Gross Alpha	290	pCi/L	118		70	130			
Sample ID: Cs137-GrAB-0402	Laboratory Control Sample								
Gross Beta	96	pCi/L	102		70	130			
Sample ID: C08020709-001AMS	Sample Matrix Spike								
Gross Alpha	320	pCi/L	126		70	130			
Sample ID: C08020709-001AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	320	pCi/L	128		70	130	1.6	15.9	
Sample ID: C08020709-001AMS	Sample Matrix Spike								
Gross Beta	110	pCi/L	97		70	130			
Sample ID: C08020709-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	100	pCi/L	95		70	130	2.1	16	
Method: E901.1							Batch: C_R97327		
Sample ID: MB-R97327	Method Blank								
Gross Gamma	ND	pCi/L	20						
Sample ID: LCS-R97327	Laboratory Control Sample								
Americium 241	730	pCi/L	20	87	70	130			
Cesium 137	1100	pCi/L	20	67	70	130			S
Potassium 40	7200	pCi/L	20	108	70	130			
Sample ID: R08020220-005H	Sample Duplicate								
Gross Gamma	400	pCi/L	20				10.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 05/08/08
 Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2646		
Sample ID: C08020820-001AMS Radium 226	Sample Matrix Spike 12 pCi/L		0.10	95	70	130			
					Run: SUB-C97898		03/06/08 15:27		
Sample ID: C08020837-001CDUP Radium 226	Sample Duplicate 3.6 pCi/L		0.10				52	32.8	R
					Run: SUB-C97898		03/06/08 17:01		
- The RPD for the dup is high. The spike recovery is within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-RA226-2646 Radium 226	Method Blank ND pCi/L								
					Run: SUB-C97898		03/06/08 17:01		
Sample ID: LCS-RA226-2646 Radium 226	Laboratory Control Sample 8.1 pCi/L		0.20	127	70	130			
					Run: SUB-C97898		03/06/08 17:01		
Method: E903.0							Batch: C_RA226-2653		
Sample ID: C08020894-001AMS Radium 226	Sample Matrix Spike 2.9 pCi/g-dry		0.10	81	70	130			
					Run: SUB-C97955		03/11/08 21:37		
Sample ID: C08020894-001AMSD Radium 226	Sample Matrix Spike Duplicate 2.9 pCi/g-dry		0.10	78	70	130	1.8	22.3	
					Run: SUB-C97955		03/11/08 21:37		
Sample ID: LCS-17899 Radium 226	Laboratory Control Sample 12 pCi/L		0.40	92	70	130			
					Run: SUB-C97955		03/11/08 21:37		
Sample ID: MB-17899 Radium 226	Method Blank -0.3 pCi/L								
					Run: SUB-C97955		03/11/08 21:37		
Method: E907.0							Batch: C_17899		
Sample ID: C08020775-086CMS Thorium 230	Sample Matrix Spike 4.80 pCi/g-dry		0.10	93	70	130			
					Run: SUB-C98651		03/14/08 14:45		
Sample ID: C08020775-086CMSD Thorium 230	Sample Matrix Spike Duplicate 5.04 pCi/g-dry		0.10	107	70	130	4.8	30	
					Run: SUB-C98651		03/14/08 14:45		
Sample ID: LCS-17899 Thorium 230	Laboratory Control Sample 50.2 pCi/Filter		0.20	102	70	130			
					Run: SUB-C98651		03/14/08 14:45		
Sample ID: MB-17899 Thorium 230	Method Blank 0.1 pCi/g-dry								
					Run: SUB-C98651		03/14/08 14:45		

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R98209		
Sample ID: LCS-R98209	Laboratory Control Sample								
Thorium 230	7.40	pCi/L	0.20	104	70	130			02/29/08 14:00
Sample ID: C08020617-006FMS	Sample Matrix Spike								
Thorium 230	15.5	pCi/L	0.20	95	70	130			02/29/08 14:00
Sample ID: C08020617-006FMSD	Sample Matrix Spike Duplicate								
Thorium 230	14.6	pCi/L	0.20	89	70	130	6.0	30	02/29/08 14:00
Sample ID: MB-R98209	Method Blank								
Thorium 230	0.1	pCi/L							02/29/08 14:00
Method: E909.0M							Batch: C_17899		
Sample ID: R08020220-005I	Sample Matrix Spike								
Lead 210	1000	pCi/L	1.0	87	70	130			03/04/08 09:45
Sample ID: R08020220-005I	Sample Matrix Spike Duplicate								
Lead 210	670	pCi/L	1.0	56	70	130	43	30	SR
- MSD response is outside of the acceptance range for this analysis. Since the LCS, MB, and MS are acceptable the batch is approved.									
Sample ID: MB-R97876	Method Blank								
Lead 210	ND	pCi/L							03/04/08 09:45
Sample ID: LCS-R97876	Laboratory Control Sample								
Lead 210	110	pCi/L	1.0	96	70	130			03/04/08 09:45
Method: E909.0M							Batch: C_R97515		
Sample ID: R08020220-004H	Sample Matrix Spike								
Lead 210	620	pCi/L	1.0	103	70	130			02/26/08 09:30
Sample ID: R08020220-004H	Sample Matrix Spike Duplicate								
Lead 210	530	pCi/L	1.0	88	70	130	15	30	02/26/08 09:30
Sample ID: MB-R97515	Method Blank								
Lead 210	ND	pCi/L	1						02/26/08 09:30
Sample ID: LCS-R97515	Laboratory Control Sample								
Lead 210	110	pCi/L	1.0	93	70	130			02/26/08 09:30

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_17899		
Sample ID: R08020220-004I	Sample Matrix Spike					Run: SUB-C97991			03/06/08 14:45
Polonium 210	82	pCi/L	1.0	75	70	130			
Sample ID: R08020220-004I	Sample Matrix Spike Duplicate					Run: SUB-C97991			03/06/08 14:45
Polonium 210	96	pCi/L	1.0	88	70	130	16	30	
Sample ID: LCS-17899	Laboratory Control Sample					Run: SUB-C97991			03/06/08 14:45
Polonium 210	150	pCi/L	1.0	68	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MS, MSD and the RPD for the MS MSD pair are acceptable the batch is approved.									
Sample ID: MB-17899	Method Blank					Run: SUB-C97991			03/06/08 14:45
Polonium 210	0.3	pCi/L							
Method: RMO-3008							Batch: C_R97982		
Sample ID: R08020220-005H	Sample Matrix Spike					Run: SUB-C97982			02/27/08 13:30
Polonium 210	160	pCi/L	1.0	70	70	130			
Sample ID: R08020220-005H	Sample Matrix Spike Duplicate					Run: SUB-C97982			02/27/08 13:30
Polonium 210	170	pCi/L	1.0	74	70	130	6.4	30	
Sample ID: LCS-R97982	Laboratory Control Sample					Run: SUB-C97982			02/27/08 13:30
Polonium 210	78	pCi/L	1.0	68	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MS, MSD and the RPD for the MS MSD pair are acceptable the batch is approved.									
Sample ID: MB-R97982	Method Blank					Run: SUB-C97982			02/27/08 13:30
Polonium 210	2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. Power Tail Deary Burdick		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESPEC		Contact Name: Cory Foreman @ Respec.com		Email:	Sampler: (Please Print) Eric Kerntz
Invoice Address: RESPEC		Invoice Contact & Phone: 11		Purchase Order:	Quote/Bottle Order:
Special Report/Formats -- EII must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MMWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)			Collection Date	Collection Time	MATRIX
1 Dew Burd GW 7002			02/22/08	0830	W
2 Dew Burd GW 7			02/22/08	0845	W
3 Dew Burd GW 631			02/20/08	1355	W
4 Dew Burd GW 13			02/22/08	1414	W
5 Dew Burd GW 628			02/22/08	1830	W
6					
7					
8					
9					
10					
ANALYSIS REQUESTED					
<i>As per Quote</i>					
SEE ATTACHED					
Normal Turnaround (TAT)					
R U S H					
Contact EII prior to RUSH sample submittal for charges and scheduling - See Instruction Page			Comments: GW		
Shipped by:					
Cooler ID(s):					
Receipt Temp: 0.1 °C					
On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Custody Seal: Y N					
Intact: Y N					
Signature: Y N					
M (mg): Y N					
LABORATORY USE ONLY					
Requested by (print):		Date/Time:		Signature:	
Eric Kerntz		02/21/08		<i>[Signature]</i>	
Retrieved by (print):		Date/Time:		Signature:	
Eric Kerntz		02/25/08		<i>[Signature]</i>	
Sample Disposal:		Return to Client:		Lab Disposal:	
Custody Record Must be Signed		Date/Time:		Signature:	
Eric Kerntz		02/21/08		<i>[Signature]</i>	
Received by Laboratory:		Date/Time:		Signature:	
Eric Kerntz		02/21/08		<i>[Signature]</i>	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

August 04, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08030154 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 3/13/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08030154-001	DewBurd GW135	03/13/08 12:15	03/13/08	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Anion - Cation Balance Conductivity Anions by Ion Chromatography Nitrogen, Ammonia pH Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Polonium 210, Dissolved Radium 226, Dissolved Radon 222 Thorium, Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08030154-002	DewBurd GW135	03/13/08 11:45	03/13/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson

Rapid City - Project Manager



Date: 04-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08030154

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

This report is being re-issued due to a change in the report that was made following the original issuance of the report. The reason for this re-issuance is due to the following.

- Site ID needs to be GW 135 per Eric Krantz with ReSpec

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030154-001
 Client Sample ID: DewBurd GW135

Revised Date: 08/04/08
 Report Date: 05/08/08
 Collection Date: 03/13/08 12:15
 Date Received: 03/13/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	254	mg/L		5			1	A2320 B	03/19/08 14:11/sn
Carbonate as CO3	ND	mg/L		5			1	A2320 B	03/19/08 14:11/sn
Bicarbonate as HCO3	310	mg/L		5			1	A2320 B	03/19/08 14:11/sn
Calcium	292	mg/L		0.5			2	E200.7	03/25/08 14:14/eli-c
Chloride	19	mg/L		1			1	E300.0	03/14/08 15:24/jmh
Fluoride	0.2	mg/L		0.1			1	E300.0	03/14/08 15:24/jmh
Magnesium	149	mg/L		0.5			2	E200.7	03/25/08 14:14/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	03/14/08 16:45/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	03/14/08 15:24/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	03/14/08 15:24/jmh
Potassium	20.1	mg/L		0.5			2	E200.7	03/25/08 14:14/eli-c
Silica	8.0	mg/L		0.5			2	E200.7	03/25/08 14:14/eli-c
Sodium	185	mg/L	D	2			2	E200.7	03/25/08 14:14/eli-c
Sulfate	1460	mg/L	D	3			50	E300.0	03/14/08 15:09/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2700	umhos/cm		5.0			1	A2510 B	03/18/08 16:38/jmh
pH	7.40	s.u.		0.01			1	A4500-H B	03/18/08 16:24/jmh
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10			1	Calculation	04/05/08 15:09/ADM
Solids, Total Dissolved TDS @ 180 C	2400	mg/L		5			1	A2540 C	03/14/08 14:36/sn
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	03/25/08 14:14/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	03/28/08 15:49/eli-c
Barium	ND	mg/L		0.1			2	E200.7	03/25/08 14:14/eli-c
Boron	ND	mg/L		0.1			2	E200.7	03/25/08 14:14/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/28/08 15:49/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	03/25/08 14:14/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/28/08 15:49/eli-c
Iron	6.64	mg/L		0.03			2	E200.7	03/25/08 14:14/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/28/08 15:49/eli-c
Manganese	0.13	mg/L		0.01			2	E200.7	03/25/08 14:14/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	03/28/08 15:49/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	03/25/08 14:14/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/28/08 15:49/eli-c
Selenium	0.002	mg/L		0.001			1	E200.8	03/28/08 15:49/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/28/08 15:49/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	03/28/08 15:49/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030154-001
 Client Sample ID: DewBurd GW135

Revised Date: 08/04/08
 Report Date: 05/08/08
 Collection Date: 03/13/08 12:15
 Date Received: 03/13/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0164	mg/L		0.0003		1	E200.8	03/28/08 15:49/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	03/25/08 14:14/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	03/25/08 14:14/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	66.5	pCi/L				1	E900.0	03/27/08 02:05/eli-c
Gross Alpha precision (±)	7.8	pCi/L				1	E900.0	03/27/08 02:05/eli-c
Gross Alpha MDC	5.8	pCi/L				1	E900.0	03/27/08 02:05/eli-c
Gross Beta	28.5	pCi/L				1	E900.0	03/27/08 02:05/eli-c
Gross Beta precision (±)	5.7	pCi/L				1	E900.0	03/27/08 02:05/eli-c
Gross Beta MDC	8.6	pCi/L				1	E900.0	03/27/08 02:05/eli-c
Lead 210	0.3	pCi/L		1.0		1	E909.0M	03/17/08 05:45/eli-c
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	03/17/08 05:45/eli-c
Polonium 210	0.6	pCi/L		1.0		1	RMO-3008	03/25/08 15:00/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	03/25/08 15:00/eli-c
Radium 226	2.3	pCi/L		0.2		1	E903.0	03/24/08 14:23/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/24/08 14:23/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	03/24/08 14:23/eli-c
Thorium 230	1.8	pCi/L		0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.8	pCi/L				1	E907.0	03/31/08 14:00/eli-c
Gross Gamma	90	pCi/L		20		1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	34	pCi/L				1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	948	pCi/L		100		1	D5072-92	03/15/08 10:08/eli-c
Radon 222 precision (±)	57.3	pCi/L				1	D5072-92	03/15/08 10:08/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.798	%				1	A1030 E	05/05/08 09:27/krs
Anions	35.9	meq/L				1	A1030 E	05/05/08 09:27/krs
Cations	35.4	meq/L				1	A1030 E	05/05/08 09:27/krs
Solids, Total Dissolved Calculated	2280	mg/L				1	A1030 E	05/05/08 09:27/krs
TDS Balance (0.80 - 1.20)	1.07	dec. %				1	A1030 E	05/05/08 09:27/krs

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030154-002
 Client Sample ID: DewBurd GW135

Revised Date: 08/04/08
 Report Date: 05/08/08
 Collection Date: 03/13/08 11:45
 Date Received: 03/13/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	12	mg/L		5		1	A2320 B	03/19/08 14:13/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/19/08 14:13/sn
Bicarbonate as HCO3	15	mg/L		5		1	A2320 B	03/19/08 14:13/sn
Calcium	ND	mg/L		0.5		2	E200.7	03/25/08 14:17/eli-c
Chloride	2	mg/L		1		1	E300.0	03/14/08 15:55/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	03/14/08 15:55/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	03/25/08 14:17/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:48/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/14/08 15:55/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	03/14/08 15:55/jmh
Potassium	ND	mg/L		0.5		2	E200.7	03/25/08 14:17/eli-c
Silica	ND	mg/L		0.5		2	E200.7	03/25/08 14:17/eli-c
Sodium	12	mg/L	D	2		2	E200.7	03/25/08 14:17/eli-c
Sulfate	39	mg/L		1		1	E300.0	03/14/08 15:55/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	131	umhos/cm		5.0		1	A2510 B	03/18/08 16:39/jmh
pH	6.49	s.u.		0.01		1	A4500-H B	03/18/08 16:27/jmh
Sodium Adsorption Ratio (SAR)	NA	unitless		0.10		1	Calculation	05/05/08 00:00/krs
Solids, Total Dissolved TDS @ 180 C	92	mg/L		5		1	A2540 C	03/14/08 14:37/sn
- Calcium and magnesium concentrations are less than detectable. SAR cannot be calculated for this sample (divide by 0).								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	03/25/08 14:17/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/18/08 17:34/eli-c
Barium	ND	mg/L		0.1		2	E200.7	03/25/08 14:17/eli-c
Boron	ND	mg/L		0.1		2	E200.7	03/25/08 14:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/18/08 17:34/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	03/25/08 14:17/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/18/08 17:34/eli-c
Iron	ND	mg/L		0.03		2	E200.7	03/25/08 14:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/18/08 17:34/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	03/25/08 14:17/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/18/08 17:34/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	03/25/08 14:17/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/18/08 17:34/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	04/18/08 17:34/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/18/08 17:34/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/18/08 17:34/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030154-002
 Client Sample ID: DewBurd GW135

Revised Date: 08/04/08
 Report Date: 05/08/08
 Collection Date: 03/13/08 11:45
 Date Received: 03/13/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Uranium	ND	mg/L		0.0003			1	E200.8	04/18/08 17:34/eli-c
Vanadium	ND	mg/L			0.1		2	E200.7	03/25/08 14:17/eli-c
Zinc	ND	mg/L			0.01		2	E200.7	03/25/08 14:17/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	2.5	pCi/L					1	E900.0	03/27/08 02:05/eli-c
Gross Alpha precision (±)	0.6	pCi/L					1	E900.0	03/27/08 02:05/eli-c
Gross Alpha MDC	0.7	pCi/L					1	E900.0	03/27/08 02:05/eli-c
Gross Beta	0.0	pCi/L	U				1	E900.0	03/27/08 02:05/eli-c
Gross Beta precision (±)	1.5	pCi/L					1	E900.0	03/27/08 02:05/eli-c
Gross Beta MDC	2.4	pCi/L					1	E900.0	03/27/08 02:05/eli-c
Lead 210	3.9	pCi/L		1.0			1	E909.0M	03/17/08 05:45/eli-c
Lead 210 precision (±)	1.4	pCi/L					1	E909.0M	03/17/08 05:45/eli-c
Polonium 210	0.7	pCi/L		1.0			1	RMO-3008	03/25/08 15:00/eli-c
Polonium 210 precision (±)	1.2	pCi/L					1	RMO-3008	03/25/08 15:00/eli-c
Radium 226	-0.12	pCi/L	U				1	E903.0	03/24/08 14:23/eli-c
Radium 226 precision (±)	0.06	pCi/L					1	E903.0	03/24/08 14:23/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	03/24/08 14:23/eli-c
Thorium 230	0.2	pCi/L		0.2			1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	03/31/08 14:00/eli-c
Gross Gamma	ND	pCi/L		20			1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L					1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	218	pCi/L		100			1	D5072-92	03/15/08 10:08/eli-c
Radon 222 precision (±)	48.5	pCi/L					1	D5072-92	03/15/08 10:08/eli-c
DATA QUALITY									
A/C Balance (± 5)	-33.6	%					1	A1030 E	05/05/08 09:38/krs
Anions	1.10	meq/L					1	A1030 E	05/05/08 09:38/krs
Cations	0.547	meq/L					1	A1030 E	05/05/08 09:38/krs
Solids, Total Dissolved Calculated	61.0	mg/L					1	A1030 E	05/05/08 09:38/krs
TDS Balance (0.80 - 1.20)	1.51	dec. %					1	A1030 E	05/05/08 09:38/krs

- The Ion and TDS balances may not calculate within acceptable values for near blank results.

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Revised Date: 08/04/08
 Report Date: 05/08/08
 Work Order: R08030154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080319A-ALK-SEL-W		
Sample ID: MBLK1_080319A	Method Blank						Run: PH_COND1-R_080319A		03/19/08 10:32
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_080319A	Laboratory Control Sample						Run: PH_COND1-R_080319A		03/19/08 10:36
Alkalinity, Total as CaCO3	1000	mg/L	5.0	101	90	110			
Sample ID: R08030162-002AMS	Sample Matrix Spike						Run: PH_COND1-R_080319A		03/19/08 14:24
Alkalinity, Total as CaCO3	322	mg/L	5.0	92	80	120			
Sample ID: R08030162-002AMSD	Sample Matrix Spike Duplicate						Run: PH_COND1-R_080319A		03/19/08 14:26
Alkalinity, Total as CaCO3	318	mg/L	5.0	89	80	120	1.3	10	
Method: A2510 B							Batch: 080318_1_COND-PROBE-W		
Sample ID: LCS1-1_080318	Laboratory Control Sample						Run: PH_COND2-R_080318A		03/18/08 16:33
Conductivity @ 25 C	144	umhos/cm	5.0	96	90	110			
Sample ID: LCS2-1_080318	Laboratory Control Sample						Run: PH_COND2-R_080318A		03/18/08 16:34
Conductivity @ 25 C	4800	umhos/cm	5.0	96	90	110			
Sample ID: LCS_COND-1_080318	Laboratory Control Sample						Run: PH_COND2-R_080318A		03/18/08 16:35
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_080318	Method Blank						Run: PH_COND2-R_080318A		03/18/08 16:35
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08030146-001BDUP	Sample Duplicate						Run: PH_COND2-R_080318A		03/18/08 16:37
Conductivity @ 25 C	1700	umhos/cm	5.0				0.6	10	
Method: A2540 C							Batch: 080314A-SLDS-TDS-W		
Sample ID: MBLK1_080314A	Method Blank						Run: BAL-4-R_080314A		03/14/08 10:05
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_080314A	Laboratory Control Sample						Run: BAL-4-R_080314A		03/14/08 10:06
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	105	90	110			
Sample ID: R08030152-007BMS	Sample Matrix Spike						Run: BAL-4-R_080314A		03/14/08 14:35
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	104	80	120			
Sample ID: R08030152-007BMDS	Sample Matrix Spike Duplicate						Run: BAL-4-R_080314A		03/14/08 14:36
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	105	80	120	0.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Revised Date: 08/04/08
Report Date: 05/08/08
Work Order: R08030154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080318_1_PH-W		
Sample ID: LCS_pH-1_080318	Laboratory Control Sample					Run: PH_COND2-R_080318A			03/18/08 16:06
pH	6.92	s.u.	0.010	101	98.55	101.45			
Sample ID: R08030146-001BDUP	Sample Duplicate					Run: PH_COND2-R_080318A			03/18/08 16:24
pH	8.01	s.u.	0.010				0.9	1.25	
Method: A4500-NH3 G							Batch: A2008-03-14_2_NH3_01		
Sample ID: MBLK-2	Method Blank					Run: TECHAA2-R_080314A			03/14/08 14:45
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank					Run: TECHAA2-R_080314A			03/14/08 14:46
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank					Run: TECHAA2-R_080314A			03/14/08 14:47
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			
Sample ID: R08030073-004BDUP	Sample Duplicate					Run: TECHAA2-R_080314A			03/14/08 16:17
Nitrogen, Ammonia as N	23000	mg/L	530				1.5	10	
Sample ID: R08030154-001BMS	Sample Matrix Spike					Run: TECHAA2-R_080314A			03/14/08 16:46
Nitrogen, Ammonia as N	0.30	mg/L	0.10	90	80	120			
Sample ID: R08030154-001BMSD	Sample Matrix Spike Duplicate					Run: TECHAA2-R_080314A			03/14/08 16:47
Nitrogen, Ammonia as N	0.29	mg/L	0.10	83	80	120	5.8	10	
Method: D5072-92							Batch: C_R98200		
Sample ID: R08030154-002G	Sample Duplicate					Run: SUB-C98200			03/15/08 10:08
Radon 222	235	pCi/L	100				7.2	30	
Sample ID: MB-R98200	Method Blank					Run: SUB-C98200			03/15/08 10:08
Radon 222	-20	pCi/L							
Sample ID: LCS-R98200	Laboratory Control Sample					Run: SUB-C98200			03/15/08 10:08
Radon 222	304	pCi/L	100	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Revised Date: 08/04/08
Report Date: 05/08/08
Work Order: R08030154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R98618		
Sample ID: MB-080325A	Method Blank		Run: SUB-C98618				03/25/08 13:28		
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.003	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080325A	Laboratory Fortified Blank		Run: SUB-C98618				03/25/08 13:31		
Silica	1.0	mg/L	0.10	103	85	125			
Aluminum	1.0	mg/L	0.10	100	85	125			
Barium	1.0	mg/L	0.10	100	85	125			
Boron	1.0	mg/L	0.10	102	85	125			
Calcium	48	mg/L	0.50	97	85	125			
Chromium	1.00	mg/L	0.050	100	85	125			
Iron	0.99	mg/L	0.030	99	85	125			
Magnesium	48	mg/L	0.50	97	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	1.00	mg/L	0.10	100	85	125			
Potassium	48	mg/L	0.50	96	85	125			
Sodium	47	mg/L	0.77	94	85	125			
Vanadium	1.00	mg/L	0.10	100	85	125			
Zinc	1.00	mg/L	0.010	100	85	125			
Sample ID: C08030721-004EMS2	Sample Matrix Spike		Run: SUB-C98618				03/25/08 14:34		
Aluminum	20.2	mg/L	0.10	99	70	130			
Barium	25.8	mg/L	0.12	99	70	130			
Boron	34.5	mg/L	0.17	104	70	130			
Chromium	20.7	mg/L	0.050	102	70	130			
Iron	20.3	mg/L	0.095	99	70	130			
Manganese	20.8	mg/L	0.010	102	70	130			
Molybdenum	20.7	mg/L	0.10	102	70	130			
Vanadium	20.8	mg/L	0.10	102	70	130			
Zinc	20.4	mg/L	0.044	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Revised Date: 08/04/08
 Report Date: 05/08/08
 Work Order: R08030154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R98618		
Sample ID: C08030721-004EMS2	Sample Matrix Spike			Run: SUB-C98618			03/25/08 14:34		
Calcium	1010	mg/L	2.1	98	70	130			
Magnesium	987	mg/L	0.74	97	70	130			
Potassium	1020	mg/L	0.50	98	70	130			
Silica	93.7	mg/L	0.41	99	70	130			
Sodium	3470	mg/L	15	87	70	130			
Sample ID: C08030721-004EMSD2	Sample Matrix Spike Duplicate			Run: SUB-C98618			03/25/08 14:37		
Aluminum	20.1	mg/L	0.10	99	70	130	0.3	20	
Barium	25.8	mg/L	0.12	99	70	130	0.2	20	
Boron	34.6	mg/L	0.17	105	70	130	0.4	20	
Chromium	20.3	mg/L	0.050	99	70	130	2.4	20	
Iron	20.2	mg/L	0.095	99	70	130	0.5	20	
Manganese	20.5	mg/L	0.010	100	70	130	1.5	20	
Molybdenum	20.6	mg/L	0.10	101	70	130	0.8	20	
Vanadium	20.2	mg/L	0.10	99	70	130	3.0	20	
Zinc	20.2	mg/L	0.044	99	70	130	1.1	20	
Calcium	1000	mg/L	2.1	98	70	130	0.3	20	
Magnesium	996	mg/L	0.74	98	70	130	0.9	20	
Potassium	1030	mg/L	0.50	98	70	130	0.2	20	
Silica	92.7	mg/L	0.41	94	70	130	1.1	20	
Sodium	3500	mg/L	15	90	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Revised Date: 08/04/08
Report Date: 05/08/08
Work Order: R08030154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R98784		
Sample ID: LRB	Method Blank			Run: SUB-C98784			03/28/08 12:09		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Selenium	ND	mg/L	0.0002						
Silver	0.0007	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C98784			03/28/08 12:15		
Arsenic	0.0503	mg/L	0.0010	101	85	115			
Cadmium	0.0511	mg/L	0.0010	102	85	115			
Copper	0.0506	mg/L	0.0010	101	85	115			
Lead	0.0501	mg/L	0.0010	100	85	115			
Mercury	0.00511	mg/L	0.0010	102	85	115			
Nickel	0.0506	mg/L	0.0010	101	85	115			
Selenium	0.0514	mg/L	0.0010	103	85	115			
Silver	0.0191	mg/L	0.0010	92	85	115			
Thorium 232	0.0502	mg/L	0.0010	100	85	115			
Uranium	0.0502	mg/L	0.00030	100	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Revised Date: 08/04/08
Report Date: 05/08/08
Work Order: R08030154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R99837		
Sample ID: LRB	Method Blank		Run: SUB-C99837			04/18/08 12:51			
Arsenic	ND	mg/L	6E-05						
Cadmium	3E-05	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	3E-05						
Thorium 232	0.0001	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C99837			04/18/08 12:58			
Arsenic	0.0526	mg/L	0.0010	105	85	115			
Cadmium	0.0520	mg/L	0.0010	104	85	115			
Copper	0.0539	mg/L	0.0010	108	85	115			
Lead	0.0524	mg/L	0.0010	105	85	115			
Mercury	0.00529	mg/L	0.0010	106	85	115			
Nickel	0.0530	mg/L	0.0010	106	85	115			
Selenium	0.0518	mg/L	0.0010	104	85	115			
Silver	0.0204	mg/L	0.0010	102	85	115			
Thorium 232	0.0515	mg/L	0.0010	103	85	115			
Uranium	0.0513	mg/L	0.00030	103	85	115			
Sample ID: R08040002-002C	Post Digestion Spike		Run: SUB-C99837			04/18/08 17:55			
Arsenic	0.0615	mg/L	0.0010	107	70	130			
Cadmium	0.0498	mg/L	0.010	99	70	130			
Copper	0.0509	mg/L	0.010	98	70	130			
Lead	0.0501	mg/L	0.050	100	70	130			
Mercury	0.00515	mg/L	0.0010	101	70	130			
Nickel	0.0543	mg/L	0.050	95	70	130			
Selenium	0.0547	mg/L	0.0010	109	70	130			
Silver	0.00890	mg/L	0.010	45	70	130			S
Thorium 232	0.0521	mg/L	0.0010	104	70	130			
Uranium	0.106	mg/L	0.00030	97	70	130			
Sample ID: R08040002-002C	Post Digestion Spike Duplicate		Run: SUB-C99837			04/18/08 18:01			
Arsenic	0.0598	mg/L	0.0010	104	70	130	2.8	20	
Cadmium	0.0485	mg/L	0.010	97	70	130	2.6	20	
Copper	0.0490	mg/L	0.010	94	70	130	3.8	20	
Lead	0.0506	mg/L	0.050	101	70	130	1.0	20	
Mercury	0.00528	mg/L	0.0010	103	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Revised Date: 08/04/08
 Report Date: 05/08/08
 Work Order: R08030154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R99837		
Sample ID: R08040002-002C	Post Digestion Spike Duplicate			Run: SUB-C99837			04/18/08 18:01		
Nickel	0.0525	mg/L	0.050	92	70	130	3.3	20	
Selenium	0.0510	mg/L	0.0010	102	70	130	6.9	20	
Silver	0.00834	mg/L	0.010	42	70	130	0.0	20	S
Thorium 232	0.0523	mg/L	0.0010	104	70	130	0.5	20	
Uranium	0.106	mg/L	0.00030	99	70	130	0.8	20	
Method: E300.0							Batch: R33818		
Sample ID: LFB0803141400-3	Laboratory Fortified Blank			Run: DIONEX_080314A			03/14/08 13:36		
Chloride	4.73	mg/L	0.50	95	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.43	mg/L	0.10	97	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: LFB0803141400-4	Laboratory Fortified Blank			Run: DIONEX_080314A			03/14/08 13:52		
Chloride	4.85	mg/L	0.50	97	90	110			
Fluoride	2.07	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.37	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.49	mg/L	0.10	100	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: R08030146-001BMS	Sample Matrix Spike			Run: DIONEX_080314A			03/14/08 14:22		
Chloride	24.7	mg/L	0.50		80	120			A
Fluoride	2.04	mg/L	0.10	84	80	120			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	80	120			
Nitrogen, Nitrite as N	2.29	mg/L	0.10	92	80	120			
Sulfate	794	mg/L	1.0		80	120			A
Sample ID: R08030146-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080314A			03/14/08 14:38		
Chloride	24.5	mg/L	0.50		80	120	1.1	10	A
Fluoride	2.12	mg/L	0.10	88	80	120	3.8	10	
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	80	120	2.1	10	
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	80	120	6.8	10	
Sulfate	792	mg/L	1.0		80	120	0.2	10	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Revised Date: 08/04/08
 Report Date: 05/08/08
 Work Order: R08030154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0414		
Sample ID: MB-GrAB-0414	Method Blank				Run: SUB-C98700			03/26/08 04:34	
Gross Alpha	2	pCi/L							
Gross Beta	-0.6	pCi/L							
Sample ID: UNAT-GrAB-0414	Laboratory Control Sample				Run: SUB-C98700			03/26/08 04:35	
Gross Alpha	240	pCi/L	97	70	130				
Sample ID: Cs137-GrAB-0414	Laboratory Control Sample				Run: SUB-C98700			03/26/08 04:34	
Gross Beta	88	pCi/L	94	70	130				
Sample ID: C08030506-001AMS	Sample Matrix Spike				Run: SUB-C98700			03/26/08 04:35	
Gross Alpha	280	pCi/L	107	70	130				
Sample ID: C08030506-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C98700			03/26/08 04:35	
Gross Alpha	270	pCi/L	103	70	130	3.0	12.5		
Sample ID: C08030506-001AMS	Sample Matrix Spike				Run: SUB-C98700			03/26/08 04:34	
Gross Beta	98	pCi/L	93	70	130				
Sample ID: C08030506-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C98700			03/26/08 04:34	
Gross Beta	97	pCi/L	92	70	130	0.8	15.6		
Sample ID: MB-GrAB-0414	Method Blank				Run: SUB-C99071			03/26/08 04:34	
Gross Alpha	2	pCi/L							
Gross Beta	-0.6	pCi/L							
Sample ID: UNAT-GrAB-0414	Laboratory Control Sample				Run: SUB-C99071			03/26/08 04:35	
Gross Alpha	240	pCi/L	97	70	130				
Sample ID: Cs137-GrAB-0414	Laboratory Control Sample				Run: SUB-C99071			03/26/08 04:34	
Gross Beta	88	pCi/L	94	70	130				
Sample ID: C08030506-001AMS	Sample Matrix Spike				Run: SUB-C99071			03/26/08 04:35	
Gross Alpha	280	pCi/L	107	70	130				
Sample ID: C08030506-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99071			03/26/08 04:35	
Gross Alpha	270	pCi/L	103	70	130	3.0	14.6		
Sample ID: C08030506-001AMS	Sample Matrix Spike				Run: SUB-C99071			03/26/08 04:34	
Gross Beta	98	pCi/L	93	70	130				
Sample ID: C08030506-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99071			03/26/08 04:34	
Gross Beta	97	pCi/L	92	70	130	0.8	15.8		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Revised Date: 08/04/08
 Report Date: 05/08/08
 Work Order: R08030154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R98315		
Sample ID: LCS-R98315	Laboratory Control Sample				Run: SUB-C98315		03/14/08 16:57		
Americium 241	740	pCi/L	20	91	70	130			
Cesium 137	1500	pCi/L	20	105	70	130			
Potassium 40	6900	pCi/L	20	103	70	130			
Sample ID: MB-R98315	Method Blank				Run: SUB-C98315		03/14/08 16:57		
Gross Gamma	ND	pCi/L							
Sample ID: R08030154-002H	Sample Duplicate				Run: SUB-C98315		03/14/08 16:57		
Gross Gamma	ND	pCi/L	20				0.0	30	
Method: E903.0							Batch: C_RA226-2672		
Sample ID: C08030442-001DMS	Sample Matrix Spike				Run: SUB-C98696		03/24/08 12:43		
Radium 226	6.9	pCi/L		95	70	130			
Sample ID: C08030442-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C98696		03/24/08 12:43		
Radium 226	9.9	pCi/L		141	70	130	35	21.6	SR
- Spike response is outside of the acceptance range for this analysis. Since the LCS, MB, and MS are acceptable, the batch is approved.									
Sample ID: MB-RA226-2672	Method Blank				Run: SUB-C98696		03/24/08 14:23		
Radium 226	-0.1	pCi/L							
Sample ID: LCS-RA226-2672	Laboratory Control Sample				Run: SUB-C98696		03/24/08 14:23		
Radium 226	6.7	pCi/L		108	70	130			
Method: E907.0							Batch: C_R99362		
Sample ID: LCS-R99362	Laboratory Control Sample				Run: SUB-C99362		03/31/08 14:00		
Thorium 230	8.20	pCi/L	0.20	116	70	130			
Sample ID: C08030555-001HMS	Sample Matrix Spike				Run: SUB-C99362		03/31/08 14:00		
Thorium 230	13.7	pCi/L	0.20	121	70	130			
Sample ID: C08030555-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C99362		03/31/08 14:00		
Thorium 230	13.2	pCi/L	0.20	116	70	130	3.7	30	
Sample ID: MB-R99362	Method Blank				Run: SUB-C99362		03/31/08 14:00		
Thorium 230	0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Revised Date: 08/04/08
 Report Date: 05/08/08
 Work Order: R08030154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R98516		
Sample ID: C08030354-001DMS	Sample Matrix Spike					Run: SUB-C98516			03/17/08 05:45
Lead 210	500	pCi/L	1.0	82	70	130			
Sample ID: C08030354-001DMSD	Sample Matrix Spike Duplicate					Run: SUB-C98516			03/17/08 05:45
Lead 210	720	pCi/L	1.0	119	70	130	36	30	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R98516	Method Blank					Run: SUB-C98516			03/17/08 05:45
Lead 210	-0.6	pCi/L							
Sample ID: LCS-R98516	Laboratory Control Sample					Run: SUB-C98516			03/17/08 05:45
Lead 210	100	pCi/L	1.0	89	70	130			
Method: RMO-3008							Batch: C_R98834		
Sample ID: R08030154-002H	Sample Matrix Spike					Run: SUB-C98834			03/25/08 15:00
Polonium 210	96	pCi/L	1.0	85	70	130			
Sample ID: R08030154-002H	Sample Matrix Spike Duplicate					Run: SUB-C98834			03/25/08 15:00
Polonium 210	78	pCi/L	1.0	70	70	130	20	30	
Sample ID: LCS-R98834	Laboratory Control Sample					Run: SUB-C98834			03/25/08 15:00
Polonium 210	84	pCi/L	1.0	75	70	130			
Sample ID: MB-R98834	Method Blank					Run: SUB-C98834			03/25/08 15:00
Polonium 210	1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name: PWS, Permit, Etc.		Sample Origin	EPA/State Compliance:
Report Mail Address: RESPEC		Contact Name: Robert Dewey Kurdek		State: SD	Yes <input type="checkbox"/> No <input type="checkbox"/>
Invoice Address: RESPEC		Phone/Fax: 605.342.1225		Email: eric.foreman@respec.com	Sampler: (Please Print) ERIC KEARRE
Special Report/Formats - EII must be notified prior to sample submittal for the following:		Invoice Contact & Phone: eric.foreman@respec.com		Purchase Order:	Quote/Bottle Order:
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O <input type="checkbox"/> Air Water <input type="checkbox"/> Soils/Solids <input type="checkbox"/> Vegetation <input type="checkbox"/> Bioassay <input type="checkbox"/> Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	ANALYSIS REQUESTED SEE ATTACHED Normal Turnaround (TAT)	
1. Darbyland GW 700 135		03/13/08	1215	RUSH Contact EII prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: GW	
2. Pen Burd GW 707 135		03/13/08	1145	Comments: set 5 Hollenbeck Damatic set 20 Hollenbeck R.O.	
3. S2X				Signature: _____ Date/Time: _____	
4.				Signature: _____ Date/Time: _____	
5.				Signature: _____ Date/Time: _____	
6.				Signature: _____ Date/Time: _____	
7.				Signature: _____ Date/Time: _____	
8.				Signature: _____ Date/Time: _____	
9.				Signature: _____ Date/Time: _____	
10.				Signature: _____ Date/Time: _____	
Custody Record MUST be Signed		Requested by (print): Eric Kearre	Date/Time: 3/13/08 14:35	Received by (print): Eric Kearre	Date/Time: 3/13/08 14:35
Sample Disposal: Return to Client: _____		Lab Disposal: _____	Signature: _____	Signature: _____	Signature: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

LABORATORY USE ONLY

FD805015400
-002



ANALYTICAL SUMMARY REPORT

June 15, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08030253 Quote ID: R286


Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 3/25/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08030253-001	DewBurd GW650	03/24/08 9:00	03/25/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08030253-002	DewBurd GW619	03/24/08 15:40	03/25/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030253-001
 Client Sample ID: DewBurd GW650

Report Date: 06/15/08
 Collection Date: 03/24/08 09:00
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	30	mg/L		5		1	A2320 B	03/28/08 13:36/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/28/08 13:36/sn
Bicarbonate as HCO3	37	mg/L		5		1	A2320 B	03/28/08 13:36/sn
Calcium	101	mg/L		0.5		2	E200.7	04/11/08 09:55/eli-c
Chloride	19	mg/L		1		1	E300.0	03/26/08 16:24/jmh
Fluoride	0.1	mg/L		0.1		1	E300.0	03/26/08 16:24/jmh
Magnesium	62.3	mg/L		0.5		2	E200.7	04/11/08 09:55/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	03/28/08 14:15/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/26/08 16:24/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	03/26/08 16:24/jmh
Potassium	14.5	mg/L		0.5		2	E200.7	04/11/08 09:55/eli-c
Silica	0.9	mg/L		0.5		2	E200.7	04/11/08 09:55/eli-c
Sodium	121	mg/L		0.5		2	E200.7	04/11/08 09:55/eli-c
Sulfate	801	mg/L	D	3		50	E300.0	03/26/08 16:08/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1540	umhos/cm		5.0		1	A2510 B	03/26/08 11:16/jmh
Oxidation-Reduction Potential	120	mV				1	A2580 B	03/25/08 00:00/sn
pH	7.40	s.u.		0.01		1	A4500-H B	03/26/08 15:41/jmh
Sodium Adsorption Ratio (SAR)	2.3	Unitless		0.10		1	Calculation	04/11/08 09:55/krs
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C	03/31/08 08:42/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/11/08 09:55/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/28/08 20:02/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/11/08 09:55/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	04/11/08 09:55/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/28/08 20:02/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/11/08 09:55/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/28/08 20:02/eli-c
Iron	0.06	mg/L		0.03		2	E200.7	04/11/08 09:55/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/28/08 20:02/eli-c
Manganese	0.43	mg/L		0.01		2	E200.7	04/11/08 09:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/28/08 20:02/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/11/08 09:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/28/08 20:02/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	04/01/08 13:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/28/08 20:02/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.

Page 1 of 6



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030253-001
 Client Sample ID: DewBurd GW650

Report Date: 06/15/08
 Collection Date: 03/24/08 09:00
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	04/28/08 20:02/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/28/08 20:02/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/11/08 09:55/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/11/08 09:55/eli-c
METALS - SUSPENDED								
Uranium	0.0033	mg/L		0.0003		1	E200.8	04/13/08 13:28/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:22/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	2.9	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Lead 210	24	pCi/L	B	1.0		1	E909.0M	04/02/08 10:10/eli-c
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Gross Alpha MDC	3.9	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Gross Beta	12.5	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Gross Beta precision (±)	3.3	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Gross Beta MDC	5.1	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Polonium 210	0.4	pCi/L		1.0		1	RMO-3008	04/02/08 14:00/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	04/02/08 14:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	04/02/08 10:10/eli-c
Radium 226	1.4	pCi/L				1	E903.0	04/07/08 17:42/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	04/07/08 17:42/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	04/07/08 14:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/07/08 14:30/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	12	pCi/L	B	1.0		1	E909.0M	04/03/08 08:05/eli-c
Lead 210 precision (±)	1.5	pCi/L				1	E909.0M	04/03/08 08:05/eli-c
Polonium 210	1.2	pCi/L		1.0		1	RMO-3008	04/07/08 17:00/eli-c
Polonium 210 precision (±)	0.63	pCi/L				1	RMO-3008	04/07/08 17:00/eli-c
Radium 226	0.7	pCi/L				1	E903.0	04/13/08 02:59/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	04/13/08 02:59/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	04/13/08 02:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 B - The analyte was detected in the method blank.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030253-001
 Client Sample ID: DewBurd GW650

Report Date: 06/15/08
 Collection Date: 03/24/08 09:00
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.8	pCi/L		0.2			1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	202	pCi/L		100			1	D5072-92	03/29/08 15:38/eli-c
Radon 222 precision (±)	88.2	pCi/L					1	D5072-92	03/29/08 15:38/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	04/11/08 05:43/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	04/18/08 19:50/eli-c
Barium	ND	mg/L		0.1			1	E200.8	04/11/08 05:43/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	04/11/08 05:43/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	04/11/08 17:16/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	04/11/08 05:43/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	04/11/08 05:43/eli-c
Copper	0.08	mg/L		0.01			1	E200.8	04/11/08 22:11/eli-c
Iron	7.59	mg/L		0.03			2	E200.7	04/11/08 17:16/eli-c
Lead	0.050	mg/L		0.001			1	E200.8	04/11/08 05:43/eli-c
Manganese	0.56	mg/L		0.01			1	E200.8	04/11/08 05:43/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	04/10/08 13:55/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	04/11/08 05:43/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	04/11/08 05:43/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	04/11/08 22:11/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/28/08 15:17/eli-c
Strontium	2.1	mg/L		0.1			1	E200.8	04/11/08 05:43/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	04/11/08 05:43/eli-c
Uranium	0.0004	mg/L		0.0003			1	E200.8	04/11/08 05:43/eli-c
Zinc	0.07	mg/L	D	0.03			1	E200.8	04/11/08 05:43/eli-c
DATA QUALITY									
A/C Balance (± 5)	-5.85	%					1	A1030 E	05/13/08 10:00/kr
Anions	17.8	meq/L					1	A1030 E	05/13/08 10:00/kr
Cations	15.9	meq/L					1	A1030 E	05/13/08 10:00/kr
Solids, Total Dissolved Calculated	1140	mg/L					1	A1030 E	05/13/08 10:00/kr
TDS Balance (0.80 - 1.20)	1.11	dec. %					1	A1030 E	05/13/08 10:00/kr

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030253-002
 Client Sample ID: DewBurd GW619

Report Date: 06/15/08
 Collection Date: 03/24/08 15:40
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	116	mg/L		5		1	A2320 B	03/28/08 13:48/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/28/08 13:48/sn
Bicarbonate as HCO3	141	mg/L		5		1	A2320 B	03/28/08 13:48/sn
Calcium	343	mg/L		0.5		2	E200.7	04/11/08 10:02/eli-c
Chloride	12	mg/L		1		1	E300.0	03/26/08 16:55/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	03/26/08 16:55/jmh
Magnesium	125	mg/L		0.5		2	E200.7	04/11/08 10:02/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	03/28/08 14:18/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/26/08 16:55/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	03/26/08 16:55/jmh
Potassium	16.5	mg/L		0.5		2	E200.7	04/11/08 10:02/eli-c
Silica	8.0	mg/L		0.5		2	E200.7	04/11/08 10:02/eli-c
Sodium	90.3	mg/L		0.5		2	E200.7	04/11/08 10:02/eli-c
Sulfate	1310	mg/L	D	3		50	E300.0	03/26/08 16:39/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2180	umhos/cm		5.0		1	A2510 B	03/26/08 11:17/jmh
Oxidation-Reduction Potential	-80.2	mV				1	A2580 B	03/25/08 00:00/sn
pH	7.25	s.u.		0.01		1	A4500-H B	03/26/08 15:42/jmh
Sodium Adsorption Ratio (SAR)	1.1	Unitless		0.10		1	Calculation	04/11/08 10:02/krs
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C	03/31/08 08:43/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/11/08 10:02/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/28/08 20:09/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/11/08 10:02/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/11/08 10:02/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/28/08 20:09/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/11/08 10:02/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/28/08 20:09/eli-c
Iron	3.22	mg/L		0.03		2	E200.7	04/11/08 10:02/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/28/08 20:09/eli-c
Manganese	1.62	mg/L		0.01		2	E200.7	04/11/08 10:02/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/28/08 20:09/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/11/08 10:02/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/28/08 20:09/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	04/02/08 11:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/28/08 20:09/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030253-002
 Client Sample ID: DewBurd GW619

Report Date: 06/15/08
 Collection Date: 03/24/08 15:40
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	04/28/08 20:09/eli-c
Uranium	0.0015	mg/L		0.0003		1	E200.8	04/28/08 20:09/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/11/08 10:02/eli-c
Zinc	0.03	mg/L		0.01		2	E200.7	04/11/08 10:02/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/13/08 13:34/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/02/08 09:52/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/02/08 11:22/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	438	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Lead 210	19	pCi/L	B	1.0		1	E909.0M	04/02/08 10:10/eli-c
Gross Alpha precision (±)	19.4	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Gross Alpha MDC	6.7	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Gross Beta	175	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Gross Beta precision (±)	7.7	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Gross Beta MDC	8.5	pCi/L				1	E900.0	04/08/08 23:36/eli-c
Polonium 210	1.9	pCi/L		1.0		1	RMO-3008	04/02/08 14:00/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	04/02/08 14:00/eli-c
Lead 210 precision (±)	2.3	pCi/L				1	E909.0M	04/02/08 10:10/eli-c
Radium 226	99.7	pCi/L				1	E903.0	04/07/08 17:42/eli-c
Radium 226 precision (±)	1.7	pCi/L				1	E903.0	04/07/08 17:42/eli-c
Thorium 230	0.0	pCi/L		0.2		1	E907.0	04/07/08 14:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/07/08 14:30/eli-c
Gross Gamma	25	pCi/L		20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	9.9	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	11	pCi/L	B	1.0		1	E909.0M	04/03/08 08:05/eli-c
Lead 210 precision (±)	1.5	pCi/L				1	E909.0M	04/03/08 08:05/eli-c
Polonium 210	0.1	pCi/L		1.0		1	RMO-3008	04/07/08 17:00/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	04/07/08 17:00/eli-c
Radium 226	11.4	pCi/L				1	E903.0	04/13/08 04:29/eli-c
Radium 226 precision (±)	1.1	pCi/L				1	E903.0	04/13/08 04:29/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	04/13/08 04:29/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 B - The analyte was detected in the method blank.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030253-002
 Client Sample ID: DewBurd GW619

Report Date: 06/15/08
 Collection Date: 03/24/08 15:40
 Date Received: 03/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.2	pCi/L		0.2		1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	5580	pCi/L		100		1	D5072-92	03/29/08 15:38/eli-c
Radon 222 precision (±)	140	pCi/L				1	D5072-92	03/29/08 15:38/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	04/11/08 05:50/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/18/08 19:57/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/11/08 05:50/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	04/11/08 05:50/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/11/08 17:19/eli-c
Cadmium	ND	mg/L		0.001		1	E200.8	04/11/08 05:50/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	04/11/08 05:50/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/11/08 22:18/eli-c
Iron	11.9	mg/L		0.03		2	E200.7	04/11/08 17:19/eli-c
Lead	0.005	mg/L		0.001		1	E200.8	04/11/08 05:50/eli-c
Manganese	1.82	mg/L		0.01		1	E200.8	04/11/08 05:50/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	04/10/08 13:57/eli-b
Molybdenum	ND	mg/L		0.01		1	E200.8	04/11/08 05:50/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/11/08 05:50/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	04/11/08 22:18/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/28/08 15:24/eli-c
Strontium	5.2	mg/L		0.1		1	E200.8	04/11/08 05:50/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	04/11/08 05:50/eli-c
Uranium	0.0018	mg/L		0.0003		1	E200.8	04/11/08 05:50/eli-c
Zinc	0.18	mg/L	D	0.03		1	E200.8	04/11/08 05:50/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.41	%				1	A1030 E	05/13/08 10:02/krs
Anions	29.9	meq/L				1	A1030 E	05/13/08 10:02/krs
Cations	32.0	meq/L				1	A1030 E	05/13/08 10:02/krs
Solids, Total Dissolved Calculated	1980	mg/L				1	A1030 E	05/13/08 10:02/krs
TDS Balance (0.80 - 1.20)	1.05	dec. %				1	A1030 E	05/13/08 10:02/krs

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/15/08
Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Batch: 080326_1_COND-PROBE-W		
Sample ID: LCS1-1_080326 Conductivity @ 25 C	Laboratory Control Sample 147	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_080326A 03/26/08 11:04
Sample ID: LCS2-1_080326 Conductivity @ 25 C	Laboratory Control Sample 4700	umhos/cm	5.0	94	90	110			Run: PH_COND2-R_080326A 03/26/08 11:05
Sample ID: LCS_COND-1_080326 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080326A 03/26/08 11:05
Sample ID: MBLK-1_080326 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080326A 03/26/08 11:06
Sample ID: R08030228-001ADUP Conductivity @ 25 C	Sample Duplicate 3490	umhos/cm	5.0				0.0	10	Run: PH_COND2-R_080326A 03/26/08 11:08
Method: A2540 C							Batch: 080331A-SLDS-TDS-W		
Sample ID: LCS1_080331A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 200	mg/L	5.0	100	90	110			Run: BAL-4-R_080331A 03/31/08 08:28
Sample ID: MBLK1_080331A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080331A 03/31/08 08:30
Sample ID: R08030253-002AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 2300	mg/L	5.0	106	80	120			Run: BAL-4-R_080331A 03/31/08 08:44
Sample ID: R08030253-002AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 2300	mg/L	5.0	117	80	120	1.0	10	Run: BAL-4-R_080331A 03/31/08 08:44
Method: A2580 B							Batch: R33973		
Sample ID: LCS_032508 Oxidation-Reduction Potential	Laboratory Control Sample 490	mV		102	95	105			Run: PH_COND1-R_080325A 03/25/08 00:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE-3114-080401B		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C98917			04/01/08 13:12
Sample ID: 288-48-5 Selenium	Laboratory Control Sample 0.050 mg/L		0.0010	100	90	110			04/01/08 13:14
Sample ID: C08031120-001EMS Selenium	Sample Matrix Spike 0.054 mg/L		0.0010	108	85	115			04/01/08 13:21
Sample ID: C08031120-001EMSD Selenium	Sample Matrix Spike Duplicate 0.054 mg/L		0.0010	107	85	115	0.7	10	04/01/08 13:23
Method: A3114 B							Batch: C_SE-3114-080402B		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C98973			04/02/08 11:16
Sample ID: 288-48-5 Selenium	Laboratory Control Sample 0.051 mg/L		0.0010	102	90	110			04/02/08 11:18
Sample ID: C08040020-001LMS Selenium	Sample Matrix Spike 0.051 mg/L		0.0010	99	85	115			04/02/08 11:24
Sample ID: C08040020-001LMSD Selenium	Sample Matrix Spike Duplicate 0.052 mg/L		0.0010	102	85	115	2.3	10	04/02/08 11:27
Method: A3114 B							Batch: C_SEIV-3114-080401		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05			Run: SUB-C98894			04/01/08 09:16
Sample ID: 288-48-5 Selenium-IV	Laboratory Control Sample 0.046 mg/L		0.0010	92	90	110			04/01/08 09:18
Sample ID: C08031120-001EMS Selenium-IV	Sample Matrix Spike 0.046 mg/L		0.0010	92	85	115			04/01/08 09:24
Sample ID: C08031120-001EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.045 mg/L		0.0010	91	85	115	1.1	10	04/01/08 09:27

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/15/08
Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV-3114-080402		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	6E-05						
						Run: SUB-C98966			04/02/08 09:47
Sample ID: 288-48-5 Selenium-IV	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			04/02/08 09:50
						Run: SUB-C98966			04/02/08 09:56
Sample ID: C08040020-001LMS Selenium-IV	Sample Matrix Spike 0.056	mg/L	0.0010	112	85	115			04/02/08 09:58
						Run: SUB-C98966			04/02/08 09:58
Sample ID: C08040020-001LMSD Selenium-IV	Sample Matrix Spike Duplicate 0.055	mg/L	0.0010	109	85	115	2.0	10	
Method: A4500-H B							Batch: 080326_1_PH-W		
Sample ID: LCS_pH-1_080326 pH	Laboratory Control Sample 6.94	s.u.	0.010	101	98.55	101.45			03/26/08 15:31
						Run: PH_COND2-R_080326B			03/26/08 15:35
Sample ID: R08030252-001CDUP pH	Sample Duplicate 6.69	s.u.	0.010				0.1	1.25	
						Run: PH_COND2-R_080326B			03/26/08 15:35
Method: A4500-NH3 G							Batch: A2008-03-28_2_NH3_01		
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	92	90	110			03/28/08 12:26
						Run: TECHAA2-R_080328A			03/28/08 12:27
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	90	90	110			03/28/08 12:27
						Run: TECHAA2-R_080328A			03/28/08 12:37
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						03/28/08 12:37
						Run: TECHAA2-R_080328A			03/28/08 14:19
Sample ID: R08030253-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.46	mg/L	0.10	86	80	120			03/28/08 14:19
						Run: TECHAA2-R_080328A			03/28/08 14:21
Sample ID: R08030253-002BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.47	mg/L	0.10	91	80	120	2.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92							Batch: C_R98853		
Sample ID: C08031182-005DDUP	Sample Duplicate								
Radon 222	111	pCi/L	100				0.0	30	
Sample ID: MB-R98853							Run: SUB-C98853		
Radon 222	Method Blank								03/29/08 15:38
	-20	pCi/L							
Sample ID: LCS-R98853							Run: SUB-C98853		
Radon 222	Laboratory Control Sample		100	104	70	130			03/29/08 15:38
	300	pCi/L							
Method: E200.7							Batch: C_18151		
Sample ID: MB-18151							Run: SUB-C99540		
Boron	Method Blank		0.006						04/11/08 17:09
	ND	mg/L							
Iron	Method Blank		0.005						
	ND	mg/L							
Sample ID: LCS-18151							Run: SUB-C99540		
Boron	Laboratory Control Sample		0.10	94	85	115			04/11/08 17:13
	0.479	mg/L							
Iron	Laboratory Control Sample		0.030	96	85	115			
	0.485	mg/L							
Sample ID: R08030253-002D							Run: SUB-C99540		
Boron	Sample Matrix Spike		0.10	96	70	130			04/11/08 17:23
	0.562	mg/L							
Iron	Sample Matrix Spike		0.030		70	130			A
	12.2	mg/L							
Sample ID: R08030253-002D							Run: SUB-C99540		
Boron	Sample Matrix Spike Duplicate		0.10	94	70	130	1.7	20	04/11/08 17:26
	0.553	mg/L							
Iron	Sample Matrix Spike Duplicate		0.030		70	130	1.0	20	A
	12.1	mg/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99540		
Sample ID: MB-080411A	Method Blank		Run: SUB-C99540			04/11/08 09:38			
Silica	ND	mg/L	0.06						
Aluminum	ND	mg/L	0.008						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Chromium	ND	mg/L	0.003						
Iron	0.003	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Manganese	0.0005	mg/L	0.0004						
Molybdenum	0.01	mg/L	0.01						
Potassium	ND	mg/L	0.08						
Sodium	ND	mg/L	0.06						
Vanadium	0.008	mg/L	0.006						
Zinc	ND	mg/L	0.004						
Sample ID: LFB-080411A	Laboratory Fortified Blank		Run: SUB-C99540			04/11/08 09:42			
Silica	0.96	mg/L	0.10	96	85	125			
Aluminum	0.92	mg/L	0.10	92	85	125			
Barium	0.91	mg/L	0.10	91	85	125			
Boron	0.93	mg/L	0.10	93	85	125			
Calcium	49	mg/L	0.50	98	85	125			
Chromium	0.92	mg/L	0.050	92	85	125			
Iron	0.92	mg/L	0.030	91	85	125			
Magnesium	49	mg/L	0.50	98	85	125			
Manganese	0.90	mg/L	0.010	90	85	125			
Molybdenum	0.98	mg/L	0.10	96	85	125			
Potassium	45	mg/L	0.50	91	85	125			
Sodium	47	mg/L	0.50	94	85	125			
Vanadium	0.96	mg/L	0.10	95	85	125			
Zinc	0.93	mg/L	0.010	93	85	125			
Sample ID: C08031105-001DMS2	Sample Matrix Spike		Run: SUB-C99540			04/11/08 09:48			
Aluminum	1.78	mg/L	0.10	87	70	130			
Barium	1.84	mg/L	0.10	88	70	130			
Boron	2.03	mg/L	0.10	90	70	130			
Chromium	1.80	mg/L	0.050	88	70	130			
Iron	1.80	mg/L	0.030	88	70	130			
Manganese	1.81	mg/L	0.010	87	70	130			
Molybdenum	1.93	mg/L	0.10	94	70	130			
Vanadium	1.89	mg/L	0.10	93	70	130			
Zinc	2.06	mg/L	0.010	91	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99540		
Sample ID: C08031105-001DMS2	Sample Matrix Spike			Run: SUB-C99540			04/11/08 09:48		
Calcium	245	mg/L	1.0	94	70	130			
Magnesium	148	mg/L	1.0	96	70	130			
Potassium	110	mg/L	1.0	95	70	130			
Silica	20.7	mg/L	0.12		70	130			A
Sodium	167	mg/L	1.0	96	70	130			
Sample ID: C08031105-001DMSD2	Sample Matrix Spike Duplicate			Run: SUB-C99540			04/11/08 09:52		
Aluminum	1.79	mg/L	0.10	88	70	130	0.8	20	
Barium	1.87	mg/L	0.10	90	70	130	2.0	20	
Boron	2.05	mg/L	0.10	91	70	130	1.0	20	
Chromium	1.82	mg/L	0.050	89	70	130	1.1	20	
Iron	1.81	mg/L	0.030	89	70	130	0.7	20	
Manganese	1.83	mg/L	0.010	88	70	130	0.8	20	
Molybdenum	1.96	mg/L	0.10	96	70	130	1.6	20	
Vanadium	1.90	mg/L	0.10	93	70	130	0.5	20	
Zinc	2.08	mg/L	0.010	92	70	130	1.0	20	
Calcium	239	mg/L	1.0	88	70	130	2.6	20	
Magnesium	142	mg/L	1.0	90	70	130	4.2	20	
Potassium	104	mg/L	1.0	89	70	130	5.5	20	
Silica	20.8	mg/L	0.12		70	130	0.5	20	A
Sodium	161	mg/L	1.0	91	70	130	3.2	20	
Sample ID: C08040269-001CMS2	Sample Matrix Spike			Run: SUB-C99540			04/11/08 13:38		
Aluminum	0.890	mg/L	0.10	84	70	130			
Barium	0.973	mg/L	0.10	86	70	130			
Boron	0.888	mg/L	0.10	85	70	130			
Calcium	124	mg/L	0.50	80	70	130			
Chromium	0.875	mg/L	0.050	86	70	130			
Iron	0.945	mg/L	0.030	86	70	130			
Magnesium	66.1	mg/L	0.50	87	70	130			
Manganese	0.921	mg/L	0.010	85	70	130			
Molybdenum	0.903	mg/L	0.10	89	70	130			
Potassium	46.0	mg/L	0.50	87	70	130			
Sodium	59.6	mg/L	0.50	88	70	130			
Vanadium	0.916	mg/L	0.10	90	70	130			
Zinc	0.922	mg/L	0.010	90	70	130			
Sample ID: C08040269-001CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C99540			04/11/08 13:41		
Aluminum	0.904	mg/L	0.10	86	70	130	1.5	20	
Barium	0.974	mg/L	0.10	86	70	130	0.1	20	
Boron	0.902	mg/L	0.10	87	70	130	1.5	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99540		
Sample ID: C08040269-001CMSD2	Sample Matrix Spike Duplicate		Run: SUB-C99540			04/11/08 13:41			
Calcium	125	mg/L	0.50	82	70	130	0.6	20	
Chromium	0.881	mg/L	0.050	86	70	130	0.7	20	
Iron	0.957	mg/L	0.030	87	70	130	1.3	20	
Magnesium	66.6	mg/L	0.50	88	70	130	0.8	20	
Manganese	0.929	mg/L	0.010	86	70	130	0.9	20	
Molybdenum	0.935	mg/L	0.10	92	70	130	3.6	20	
Potassium	46.5	mg/L	0.50	88	70	130	1.3	20	
Sodium	60.4	mg/L	0.50	89	70	130	1.4	20	
Vanadium	0.925	mg/L	0.10	91	70	130	1.0	20	
Zinc	0.913	mg/L	0.010	90	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/15/08
Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18151		
Sample ID: R08030253-002D	Post Digestion Spike			Run: SUB-C100012			04/22/08 07:47		
Antimony	0.0214	mg/L	0.050	107	70	130			
Barium	0.0329	mg/L	0.10	106	70	130			
Beryllium	0.0208	mg/L	0.010	104	70	130			
Cadmium	0.0197	mg/L	0.010	98	70	130			
Chromium	0.0194	mg/L	0.050	97	70	130			
Copper	0.0337	mg/L	0.010	87	70	130			
Lead	0.0258	mg/L	0.050	102	70	130			
Manganese	1.67	mg/L	0.010		70	130			A
Molybdenum	0.0211	mg/L	0.10	104	70	130			
Nickel	0.0209	mg/L	0.050	90	70	130			
Selenium	0.141	mg/L	0.0010	705	70	130			S
Silver	0.0202	mg/L	0.010	101	70	130			
Strontium	4.79	mg/L	0.10		70	130			A
Thallium	0.0208	mg/L	0.10	104	70	130			
Uranium	0.0228	mg/L	0.00030	105	70	130			
Zinc	0.197	mg/L	0.010		70	130			A
Sample ID: R08030253-002D	Post Digestion Spike Duplicate			Run: SUB-C100012			04/22/08 07:54		
Antimony	0.0209	mg/L	0.050	105	70	130	0.0	20	
Barium	0.0323	mg/L	0.10	103	70	130	0.0	20	
Beryllium	0.0209	mg/L	0.010	105	70	130	0.7	20	
Cadmium	0.0663	mg/L	0.010	331	70	130	110	20	SR
Chromium	0.0191	mg/L	0.050	95	70	130	0.0	20	
Copper	0.0665	mg/L	0.010	251	70	130	66	20	SR
Lead	0.0257	mg/L	0.050	102	70	130	0.0	20	
Manganese	1.65	mg/L	0.010		70	130	0.9	20	A
Molybdenum	0.0207	mg/L	0.10	102	70	130	0.0	20	
Nickel	0.0220	mg/L	0.050	96	70	130	0.0	20	
Selenium	0.150	mg/L	0.0010	747	70	130	5.8	20	S
Silver	0.0205	mg/L	0.010	102	70	130	1.2	20	
Strontium	4.90	mg/L	0.10		70	130	2.3	20	A
Thallium	0.0206	mg/L	0.10	103	70	130	0.0	20	
Uranium	0.0233	mg/L	0.00030	108	70	130	2.2	20	
Zinc	0.201	mg/L	0.010		70	130	2.2	20	A
Sample ID: MB-18151	Method Blank			Run: SUB-C100330			04/28/08 15:04		
Antimony	ND	mg/L	0.0002						
Barium	ND	mg/L	0.0003						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	4E-05						
Chromium	0.0002	mg/L	5E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/15/08
Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18151		
Sample ID: MB-18151	Method Blank		Run: SUB-C100330			04/28/08 15:04			
Copper	0.01	mg/L	0.0002						
Lead	0.006	mg/L							
Manganese	0.0002	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	0.0002	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	6E-05	mg/L	3E-05						
Zinc	0.01	mg/L	0.0003						
Sample ID: LCS-18151	Laboratory Control Sample		Run: SUB-C100330			04/28/08 15:11			
Copper	0.583	mg/L	0.010	115	85	115			
Molybdenum	0.562	mg/L	0.10	112	85	115			
Nickel	0.554	mg/L	0.050	111	85	115			
Silver	0.218	mg/L	0.010	109	85	115			
Strontium	0.565	mg/L	0.10	113	85	115			
Sample ID: R08030253-002D	Sample Matrix Spike		Run: SUB-C100330			04/28/08 15:31			
Antimony	0.592	mg/L	0.050	118	70	130			
Barium	0.106	mg/L	0.10	19	70	130			S
Beryllium	0.596	mg/L	0.010	119	70	130			
Cadmium	0.574	mg/L	0.010	115	70	130			
Chromium	0.564	mg/L	0.050	113	70	130			
Copper	0.579	mg/L	0.010	115	70	130			
Lead	0.369	mg/L	0.050	73	70	130			
Manganese	2.48	mg/L	0.010	165	70	130			S
Molybdenum	0.556	mg/L	0.10	111	70	130			
Nickel	0.552	mg/L	0.050	110	70	130			
Selenium	0.669	mg/L	0.0020	134	70	130			S
Silver	0.0902	mg/L	0.010	45	70	130			S
Strontium	6.18	mg/L	0.10		70	130			A
Thallium	0.580	mg/L	0.10	116	70	130			
Uranium	0.582	mg/L	0.00032	116	70	130			
Zinc	0.791	mg/L	0.010	123	70	130			
Sample ID: R08030253-002D	Sample Matrix Spike Duplicate		Run: SUB-C100330			04/28/08 15:38			
Antimony	0.569	mg/L	0.050	114	70	130	3.9	20	
Barium	0.105	mg/L	0.10	19	70	130	0.2	20	S
Beryllium	0.579	mg/L	0.010	116	70	130	3.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18151		
Sample ID: R08030253-002D	Sample Matrix Spike Duplicate			Run: SUB-C100330			04/28/08 15:38		
Cadmium	0.558	mg/L	0.010	112	70	130	2.9	20	
Chromium	0.551	mg/L	0.050	110	70	130	2.3	20	
Copper	0.565	mg/L	0.010	112	70	130	2.5	20	
Lead	0.363	mg/L	0.050	72	70	130	1.6	20	
Manganese	2.49	mg/L	0.010	169	70	130	0.6	20	S
Molybdenum	0.541	mg/L	0.10	108	70	130	2.6	20	
Nickel	0.541	mg/L	0.050	108	70	130	2.1	20	
Selenium	0.658	mg/L	0.0020	132	70	130	1.6	20	S
Silver	0.0829	mg/L	0.010	41	70	130	8.4	20	S
Strontium	5.97	mg/L	0.10	70	130	130	3.4	20	A
Thallium	0.567	mg/L	0.10	113	70	130	2.3	20	
Uranium	0.566	mg/L	0.00032	113	70	130	2.7	20	
Zinc	0.777	mg/L	0.010	120	70	130	1.8	20	
Sample ID: MB-18151	Method Blank			Run: SUB-C99461			04/11/08 03:42		
Antimony	ND	mg/L	0.0002						
Barium	ND	mg/L	0.0003						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	4E-05						
Chromium	ND	mg/L	5E-05						
Copper	0.0001	mg/L	0.0001						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0007						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.03	mg/L	0.0003						
Sample ID: LCS1-18151	Laboratory Control Sample			Run: SUB-C99461			04/11/08 03:48		
Antimony	0.0213	mg/L	0.050	106	80	120			
Barium	0.0209	mg/L	0.10	105	80	120			
Beryllium	0.0218	mg/L	0.010	109	80	120			
Cadmium	0.0204	mg/L	0.010	102	80	120			
Chromium	0.0220	mg/L	0.050	110	80	120			
Lead	0.0203	mg/L	0.050	101	80	120			
Manganese	0.0221	mg/L	0.010	110	80	120			
Molybdenum	0.0213	mg/L	0.10	107	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18151		
Sample ID: LCS1-18151	Laboratory Control Sample			Run: SUB-C99461			04/11/08 03:48		
Nickel	0.0201	mg/L	0.050	100	80	120			
Silver	0.0213	mg/L	0.010	106	80	120			
Strontium	0.0109	mg/L	0.10	109	80	120			
Thallium	0.0206	mg/L	0.10	103	80	120			
Uranium	0.0208	mg/L	0.00030	104	80	120			
Zinc	0.0457	mg/L	0.010	96	80	120			
Sample ID: R08030253-002D	Post Digestion Spike			Run: SUB-C99461			04/11/08 05:57		
Antimony	0.0209	mg/L	0.050	105	70	130			
Barium	0.0321	mg/L	0.10	103	70	130			
Beryllium	0.0201	mg/L	0.010	101	70	130			
Cadmium	0.0191	mg/L	0.010	95	70	130			
Chromium	0.0209	mg/L	0.050	104	70	130			
Copper	0.0490	mg/L	0.010	216	70	130			S
Lead	0.0256	mg/L	0.050	104	70	130			
Manganese	1.79	mg/L	0.010		70	130			A
Molybdenum	0.0227	mg/L	0.10	112	70	130			
Nickel	0.0253	mg/L	0.050	97	70	130			
Selenium	0.106	mg/L	0.0010	106	70	130			
Strontium	5.13	mg/L	0.10		70	130			A
Thallium	0.0208	mg/L	0.10	104	70	130			
Uranium	0.0232	mg/L	0.00030	107	70	130			
Zinc	0.201	mg/L	0.010		70	130			A
Sample ID: R08030253-002D	Post Digestion Spike Duplicate			Run: SUB-C99461			04/11/08 06:04		
Antimony	0.0209	mg/L	0.050	104	70	130	0.0	20	
Barium	0.0318	mg/L	0.10	101	70	130	0.0	20	
Beryllium	0.0204	mg/L	0.010	102	70	130	1.4	20	
Cadmium	0.0194	mg/L	0.010	96	70	130	1.6	20	
Chromium	0.0209	mg/L	0.050	105	70	130	0.0	20	
Copper	0.0510	mg/L	0.010	226	70	130	4.0	20	S
Lead	0.0258	mg/L	0.050	105	70	130	0.0	20	
Manganese	1.77	mg/L	0.010		70	130	1.5	20	A
Molybdenum	0.0221	mg/L	0.10	109	70	130	0.0	20	
Nickel	0.0257	mg/L	0.050	98	70	130	0.0	20	
Selenium	0.136	mg/L	0.0010	136	70	130	25	20	SR
Strontium	4.92	mg/L	0.10		70	130	4.2	20	A
Thallium	0.0206	mg/L	0.10	103	70	130	0.0	20	
Uranium	0.0234	mg/L	0.00030	108	70	130	0.7	20	
Zinc	0.200	mg/L	0.010		70	130	0.4	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18151		
Sample ID: MB-18151	Method Blank		Run: SUB-C99538			04/11/08 19:49			
Antimony	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	4E-05						
Chromium	5E-05	mg/L	5E-05						
Copper	0.0009	mg/L	0.0001						
Lead	9E-06	mg/L							
Manganese	0.0005	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.02	mg/L	0.0003						
Sample ID: LCS1-18151	Laboratory Control Sample		Run: SUB-C99538			04/11/08 20:16			
Antimony	0.0209	mg/L	0.050	104	80	120			
Barium	0.0217	mg/L	0.10	108	80	120			
Beryllium	0.0238	mg/L	0.010	119	80	120			
Cadmium	0.0213	mg/L	0.010	107	80	120			
Chromium	0.0214	mg/L	0.050	107	80	120			
Copper	0.0205	mg/L	0.010	98	80	120			
Lead	0.0207	mg/L	0.050	103	80	120			
Manganese	0.0222	mg/L	0.010	108	80	120			
Molybdenum	0.0213	mg/L	0.10	106	80	120			
Nickel	0.0203	mg/L	0.050	102	80	120			
Silver	0.0213	mg/L	0.010	106	80	120			
Strontium	0.0113	mg/L	0.10	113	80	120			
Thallium	0.0208	mg/L	0.10	103	80	120			
Uranium	0.0229	mg/L	0.00030	114	80	120			
Zinc	0.0408	mg/L	0.010	107	80	120			
Sample ID: R08030253-002D	Post Digestion Spike		Run: SUB-C99538			04/11/08 22:25			
Antimony	0.0216	mg/L	0.050	108	70	130			
Barium	0.0331	mg/L	0.10	106	70	130			
Beryllium	0.0206	mg/L	0.010	103	70	130			
Cadmium	0.0202	mg/L	0.010	101	70	130			
Chromium	0.0206	mg/L	0.050	101	70	130			
Copper	0.0360	mg/L	0.010	150	70	130			S
Lead	0.0258	mg/L	0.050	104	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18151		
Sample ID: R08030253-002D	Post Digestion Spike			Run: SUB-C99538			04/11/08 22:25		
Manganese	1.79	mg/L	0.010		70	130			A
Molybdenum	0.0214	mg/L	0.10	105	70	130			
Nickel	0.0209	mg/L	0.050	95	70	130			
Selenium	0.167	mg/L	0.0010	167	70	130			S
Strontium	4.98	mg/L	0.10		70	130			A
Thallium	0.0208	mg/L	0.10	104	70	130			
Uranium	0.0244	mg/L	0.00030	113	70	130			
Zinc	0.200	mg/L	0.010		70	130			A
Sample ID: R08030253-002D	Post Digestion Spike Duplicate			Run: SUB-C99538			04/11/08 22:31		
Antimony	0.0217	mg/L	0.050	108	70	130	0.0	20	
Barium	0.0334	mg/L	0.10	108	70	130	0.0	20	
Beryllium	0.0193	mg/L	0.010	96	70	130	6.6	20	
Cadmium	0.0195	mg/L	0.010	97	70	130	3.3	20	
Chromium	0.0201	mg/L	0.050	99	70	130	0.0	20	
Copper	0.0332	mg/L	0.010	136	70	130	7.9	20	S
Lead	0.0260	mg/L	0.050	105	70	130	0.0	20	
Manganese	1.75	mg/L	0.010		70	130	2.4	20	A
Molybdenum	0.0206	mg/L	0.10	101	70	130	0.0	20	
Nickel	0.0198	mg/L	0.050	90	70	130	0.0	20	
Selenium	0.150	mg/L	0.0010	150	70	130	11	20	S
Strontium	4.88	mg/L	0.10		70	130	2.0	20	A
Thallium	0.0207	mg/L	0.10	103	70	130	0.0	20	
Uranium	0.0240	mg/L	0.00030	111	70	130	1.7	20	
Zinc	0.195	mg/L	0.010		70	130	2.9	20	A
Method: E200.8							Batch: C_18171		
Sample ID: MB-18171	Method Blank			Run: SUB-C99526			04/13/08 13:14		
Uranium	0.00010	mg/L	2E-05						
Sample ID: LCS1-18171	Laboratory Control Sample			Run: SUB-C99526			04/13/08 13:21		
Uranium	0.0509	mg/L	0.00030	97	80	120			
LCS1 was not spiked with thorium.									
Sample ID: R08030252-005K	Post Digestion Spike			Run: SUB-C99526			04/13/08 14:13		
Uranium	0.0246	mg/L	0.00030	96	70	130			
Sample ID: R08030252-005K	Post Digestion Spike Duplicate			Run: SUB-C99526			04/13/08 14:40		
Uranium	0.0243	mg/L	0.00030	95	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/15/08
Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18340
Sample ID: MB-18340	Method Blank								Run: SUB-C99837 04/18/08 19:36
Arsenic	0.0007	mg/L	5E-05						
Sample ID: LCS-18340	Laboratory Control Sample								Run: SUB-C99837 04/18/08 19:43
Arsenic	0.489	mg/L	0.0010	98	85	115			
Sample ID: C08031187-001DMS	Sample Matrix Spike								Run: SUB-C99837 04/18/08 22:46
Arsenic	0.497	mg/L	0.0010	98	70	130			
Sample ID: C08031187-001DMSD	Sample Matrix Spike Duplicate								Run: SUB-C99837 04/18/08 22:53
Arsenic	0.498	mg/L	0.0010	98	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100330		
Sample ID: LRB	Method Blank		Run: SUB-C100330			04/28/08 11:48			
Arsenic	ND	mg/L	6E-05						
Cadmium	2E-05	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Thorium 232	0.0001	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C100330			04/28/08 11:55			
Arsenic	0.0529	mg/L	0.0010	106	85	115			
Cadmium	0.0525	mg/L	0.0010	105	85	115			
Copper	0.0533	mg/L	0.0010	106	85	115			
Lead	0.0528	mg/L	0.0010	106	85	115			
Mercury	0.00553	mg/L	0.0010	111	85	115			
Nickel	0.0533	mg/L	0.0010	107	85	115			
Silver	0.0206	mg/L	0.0010	103	85	115			
Thorium 232	0.0525	mg/L	0.0010	105	85	115			
Uranium	0.0525	mg/L	0.00030	105	85	115			
Sample ID: C08040444-001BMS4	Post Digestion Spike		Run: SUB-C100330			04/28/08 14:03			
Arsenic	0.0610	mg/L	0.0010	103	70	130			
Cadmium	0.0500	mg/L	0.010	100	70	130			
Copper	0.0513	mg/L	0.010	97	70	130			
Lead	0.0533	mg/L	0.050	104	70	130			
Mercury	0.00541	mg/L	0.0010	108	70	130			
Nickel	0.0489	mg/L	0.050	98	70	130			
Silver	0.0124	mg/L	0.010	62	70	130			S
Thorium 232	0.0532	mg/L	0.0010	106	70	130			
Uranium	0.0773	mg/L	0.00030	107	70	130			
Sample ID: C08040444-001BMSD4	Post Digestion Spike Duplicate		Run: SUB-C100330			04/28/08 14:10			
Arsenic	0.0624	mg/L	0.0010	106	70	130	2.3	20	
Cadmium	0.0500	mg/L	0.010	100	70	130	0.0	20	
Copper	0.0529	mg/L	0.010	101	70	130	3.1	20	
Lead	0.0531	mg/L	0.050	104	70	130	0.4	20	
Mercury	0.00548	mg/L	0.0010	110	70	130	1.4	20	
Nickel	0.0504	mg/L	0.050	101	70	130	3.1	20	
Silver	0.0104	mg/L	0.010	52	70	130	18	20	S
Thorium 232	0.0529	mg/L	0.0010	106	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/15/08
Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100330		
Sample ID: C08040444-001BMSD4	Post Digestion Spike Duplicate				Run: SUB-C100330		04/28/08 14:10		
Uranium	0.0767	mg/L	0.00030	105	70	130	0.8	20	
Sample ID: C08040192-003CMS4	Post Digestion Spike				Run: SUB-C100330		04/28/08 20:57		
Arsenic	0.0519	mg/L	0.0010	102	70	130			
Cadmium	0.0491	mg/L	0.010	98	70	130			
Copper	0.0490	mg/L	0.010	97	70	130			
Lead	0.0515	mg/L	0.050	103	70	130			
Mercury	0.00545	mg/L	0.0010	109	70	130			
Nickel	0.0490	mg/L	0.050	98	70	130			
Silver	0.0134	mg/L	0.010	67	70	130			S
Thorium 232	0.0529	mg/L	0.0010	106	70	130			
Uranium	0.0533	mg/L	0.00030	106	70	130			
Sample ID: C08040192-003CMSD4	Post Digestion Spike Duplicate				Run: SUB-C100330		04/28/08 21:24		
Arsenic	0.0522	mg/L	0.0010	103	70	130	0.6	20	
Cadmium	0.0491	mg/L	0.010	98	70	130	0.0	20	
Copper	0.0491	mg/L	0.010	98	70	130	0.2	20	
Lead	0.0511	mg/L	0.050	102	70	130	0.7	20	
Mercury	0.00549	mg/L	0.0010	110	70	130	0.7	20	
Nickel	0.0486	mg/L	0.050	97	70	130	0.0	20	
Silver	0.0120	mg/L	0.010	60	70	130	11	20	S
Thorium 232	0.0534	mg/L	0.0010	107	70	130	0.9	20	
Uranium	0.0536	mg/L	0.00030	107	70	130	0.5	20	
Method: E245.1							Batch: C_B_31842		
Sample ID: MB-31842	Method Blank				Run: SUB-C99444		04/10/08 12:28		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-31842	Laboratory Fortified Blank				Run: SUB-C99444		04/10/08 12:31		
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B08040061-002BMS	Sample Matrix Spike				Run: SUB-C99444		04/10/08 13:33		
Mercury	0.0020	mg/L	0.0010	98	70	130			
Sample ID: B08040061-002BMSD	Sample Matrix Spike Duplicate				Run: SUB-C99444		04/10/08 13:35		
Mercury	0.0021	mg/L	0.0010	103	70	130	4.5	30	
Method: E245.1							Analytical Run: SUB-C99444		
Sample ID: QCS	Initial Calibration Verification Standard						04/10/08 12:12		
Mercury	0.0020	mg/L	0.0010	98	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R33953		
Sample ID: LFB0803265758-3	Laboratory Fortified Blank			Run: DIONEX_080326A			03/26/08 11:31		
Chloride	4.93	mg/L	0.50	99	90	110			
Fluoride	2.06	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0803265758-4	Laboratory Fortified Blank			Run: DIONEX_080326A			03/26/08 11:46		
Chloride	4.92	mg/L	0.50	98	90	110			
Fluoride	2.06	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: R08030252-005CMS	Sample Matrix Spike			Run: DIONEX_080326A			03/26/08 15:22		
Chloride	262	mg/L	5.4	92	80	120			
Fluoride	106	mg/L	0.56	101	80	120			
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1920	mg/L	3.4	95	80	120			
Sample ID: R08030252-005CMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080326A			03/26/08 15:38		
Chloride	252	mg/L	5.4	88	80	120	4.0	10	
Fluoride	102	mg/L	0.56	97	80	120	4.0	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	4.6	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	4.6	10	
Sulfate	1830	mg/L	3.4	83	80	120	4.5	10	
Sample ID: R08030251-001BMS	Sample Matrix Spike			Run: DIONEX_080326A			03/26/08 18:27		
Chloride	189	mg/L	2.2	96	80	120			
Fluoride	42.9	mg/L	0.22	102	80	120			
Nitrogen, Nitrate as N	47.0	mg/L	0.50	90	80	120			
Nitrogen, Nitrite as N	60.5	mg/L	1.2	121	80	120			S
Sulfate	1020	mg/L	1.3	71	80	120			S
Sample ID: R08030251-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080326A			03/26/08 18:43		
Chloride	185	mg/L	2.2	92	80	120	2.5	10	
Fluoride	41.9	mg/L	0.22	100	80	120	2.3	10	
Nitrogen, Nitrate as N	45.6	mg/L	0.50	87	80	120	3.0	10	
Nitrogen, Nitrite as N	58.9	mg/L	1.2	118	80	120	2.8	10	
Sulfate	998	mg/L	1.3	64	80	120	2.0	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/15/08
Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0421		
Sample ID: MB-GrAB-0421	Method Blank								
Gross Alpha	-0.3	pCi/L							U
Gross Beta	-0.8	pCi/L							U
Sample ID: UNAT-GrAB-0421	Laboratory Control Sample								
Gross Alpha	290	pCi/L	120		70	130			04/08/08 23:36
Sample ID: Cs137-GrAB-0421	Laboratory Control Sample								
Gross Beta	98	pCi/L	105		70	130			04/08/08 23:35
Sample ID: C08031229-001AMS	Sample Matrix Spike								
Gross Alpha	280	pCi/L	113		70	130			04/08/08 23:35
Sample ID: C08031229-001AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	300	pCi/L	121		70	130	7.5	14.3	04/08/08 23:35
Sample ID: C08031229-001AMS	Sample Matrix Spike								
Gross Beta	99	pCi/L	106		70	130			04/08/08 23:35
Sample ID: C08031229-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	96	pCi/L	102		70	130	3.7	15.6	04/08/08 23:36
Sample ID: C08031215-001AIDUP	Sample Duplicate								
Gross Alpha	180	pCi/L					4.7	22.9	04/09/08 12:08
Gross Beta	92.9	pCi/L					4.8	21.2	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/15/08
Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R99476		
Sample ID: LCS-R99476	Laboratory Control Sample			Run: SUB-C99476			04/04/08 16:45		
Americium 241	740	pCi/L	20	91	70	130			
Cesium 137	1200	pCi/L	20	83	70	130			
Sample ID: MB-R99476							Run: SUB-C99476		
Method Blank							04/04/08 16:45		
Americium 241	ND	pCi/L							
Barium 133	ND	pCi/L							
Bismuth 212	ND	pCi/L							
Bismuth 214	ND	pCi/L							
Cesium 134	ND	pCi/L							
Cesium 137	ND	pCi/L							
Cobalt 60	ND	pCi/L							
Iodine 125	ND	pCi/L							
Iodine 131	ND	pCi/L							
Lead 212	ND	pCi/L							
Lead 214	ND	pCi/L							
Manganese 54	ND	pCi/L							
Potassium 40	ND	pCi/L							
Radium 223	ND	pCi/L							
Radium 224	ND	pCi/L							
Thallium 208	ND	pCi/L							
Thorium 228	ND	pCi/L							
Thorium 234	ND	pCi/L							
Zinc 65	ND	pCi/L							
Radium 228	ND	pCi/L							
Gross Gamma	ND	pCi/L							
Sample ID: C08031229-001ADUP	Sample Duplicate			Run: SUB-C99476			04/04/08 16:45		
Bismuth 212	ND	pCi/L	20				0.0	30	
Bismuth 214	ND	pCi/L	20				0.0	30	
Cesium 134	ND	pCi/L	20				0.0	30	
Cesium 137	ND	pCi/L	20				0.0	30	
Cobalt 60	ND	pCi/L	20				0.0	30	
Iodine 125	ND	pCi/L	20				0.0	30	
Iodine 131	ND	pCi/L	20				0.0	30	
Lead 212	ND	pCi/L	20				0.0	30	
Lead 214	ND	pCi/L	20				0.0	30	
Manganese 54	ND	pCi/L	20				0.0	30	
Potassium 40	ND	pCi/L	20				0.0	30	
Radium 223	ND	pCi/L	20				0.0	30	
Radium 224	ND	pCi/L	20				0.0	30	
Thallium 208	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/15/08
Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R99476		
Sample ID: C08031229-001ADUP	Sample Duplicate								
Thorium 228	ND	pCi/L	20				0.0	30	
Thorium 234	ND	pCi/L	20				0.0	30	
Zinc 65	ND	pCi/L	20				0.0	30	
Radium 228	ND	pCi/L	20				0.0	30	
Gross Gamma	ND	pCi/L	20				0.0	30	
Sample ID: C08040148-004HDUP							Batch: C_R99476		
Americium 241	ND	pCi/L	20				0.0	30	
Barium 133	ND	pCi/L	20				0.0	30	
Bismuth 212	ND	pCi/L	20				0.0	30	
Bismuth 214	270	pCi/L	20				16	30	
Cesium 134	ND	pCi/L	20				0.0	30	
Cesium 137	ND	pCi/L	20				0.0	30	
Cobalt 60	ND	pCi/L	20				0.0	30	
Iodine 125	ND	pCi/L	20				0.0	30	
Iodine 131	ND	pCi/L	20				0.0	30	
Lead 212	ND	pCi/L	20				0.0	30	
Lead 214	310	pCi/L	20				9.9	30	
Manganese 54	ND	pCi/L	20				0.0	30	
Potassium 40	ND	pCi/L	20				0.0	30	
Radium 223	ND	pCi/L	20				0.0	30	
Radium 224	ND	pCi/L	20				0.0	30	
Thallium 208	ND	pCi/L	20				0.0	30	
Thorium 228	ND	pCi/L	20				0.0	30	
Thorium 234	ND	pCi/L	20				0.0	30	
Zinc 65	ND	pCi/L	20				0.0	30	
Radium 228	ND	pCi/L	20				0.0	30	
Gross Gamma	580	pCi/L	20				3.1	30	
Sample ID: C08040255-001HDUP							Batch: C_R99476		
Americium 241	ND	pCi/L	20				0.0	30	
Barium 133	ND	pCi/L	20				0.0	30	
Bismuth 212	ND	pCi/L	20				0.0	30	
Bismuth 214	ND	pCi/L	20				0.0	30	
Cesium 134	ND	pCi/L	20				0.0	30	
Cesium 137	ND	pCi/L	20				0.0	30	
Cobalt 60	ND	pCi/L	20				0.0	30	
Iodine 125	ND	pCi/L	20				0.0	30	
Iodine 131	ND	pCi/L	20				0.0	30	
Lead 212	ND	pCi/L	20				0.0	30	
Lead 214	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R99476		
Sample ID: C08040255-001HDUP	Sample Duplicate				Run: SUB-C99476			04/04/08 16:45	
Manganese 54	ND	pCi/L	20				0.0	30	
Potassium 40	ND	pCi/L	20				0.0	30	
Radium 223	ND	pCi/L	20				0.0	30	
Radium 224	ND	pCi/L	20				0.0	30	
Thallium 208	ND	pCi/L	20				0.0	30	
Thorium 228	ND	pCi/L	20				0.0	30	
Thorium 234	ND	pCi/L	20				0.0	30	
Zinc 65	ND	pCi/L	20				0.0	30	
Radium 228	ND	pCi/L	20				0.0	30	
Gross Gamma	ND	pCi/L	20				0.0	30	
Method: E903.0							Batch: C_R99766		
Sample ID: C08031096-006AMS	Sample Matrix Spike				Run: SUB-C99766			04/12/08 23:58	
Radium 226	73.3	pCi/Filter	106		70	130			
Sample ID: C08031096-006AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99766			04/13/08 01:28	
Radium 226	71.9	pCi/Filter	104		70	130	1.8	25.2	
Sample ID: LCS-18171	Laboratory Control Sample				Run: SUB-C99766			04/13/08 22:32	
Radium 226	12	pCi/L	89		70	130			
Sample ID: MB-18171	Method Blank				Run: SUB-C99766			04/14/08 00:02	
Radium 226	0.5	pCi/L							
Method: E903.0							Batch: C_RA226-2696		
Sample ID: MB-RA226-2696	Method Blank				Run: SUB-C99285			04/07/08 15:04	
Radium 226	-0.2	pCi/L							U
Sample ID: C08031105-001IMS	Sample Matrix Spike				Run: SUB-C99285			04/07/08 17:42	
Radium 226	24	pCi/L	91		70	130			
Sample ID: C08031105-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C99285			04/07/08 17:42	
Radium 226	24	pCi/L	94		70	130	1.1	18.6	
Sample ID: LCS-RA226-2696	Laboratory Control Sample				Run: SUB-C99285			04/07/08 23:55	
Radium 226	5.9	pCi/L	96		70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/15/08
Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_18171
Sample ID: C08031096-005AMS Thorium 230	Sample Matrix Spike 47.2	pCi/Filter	0.20	93	70	130			Run: SUB-C99557 04/02/08 15:30
Sample ID: C08031096-005AMSD Thorium 230	Sample Matrix Spike Duplicate 47.3	pCi/Filter	0.20	94	70	130	0.2		Run: SUB-C99557 04/02/08 15:30 30
Sample ID: LCS-18171 Thorium 230	Laboratory Control Sample 43.2	pCi/Filter	0.20	89	70	130			Run: SUB-C99557 04/02/08 15:30
Sample ID: MB-18171 Thorium 230	Method Blank 0.2	pCi/Filter							Run: SUB-C99557 04/02/08 15:30
Method: E907.0									Batch: C_R99556
Sample ID: LCS-R99556 Thorium 230	Laboratory Control Sample 6.83	pCi/L	0.20	98	70	130			Run: SUB-C99556 04/07/08 14:30
Sample ID: R08030253-001H Thorium 230	Sample Matrix Spike 9.88	pCi/L	0.20	97	70	130			Run: SUB-C99556 04/07/08 14:30
Sample ID: R08030253-001H Thorium 230	Sample Matrix Spike Duplicate 9.25	pCi/L	0.20	90	70	130	6.6		Run: SUB-C99556 04/07/08 14:30 30
Sample ID: MB-R99556 Thorium 230	Method Blank ND	pCi/L							Run: SUB-C99556 04/07/08 14:30
Method: E909.0M									Batch: C_18171
Sample ID: C08031249-001AMS Lead 210	Sample Matrix Spike 1010	pCi/Filter	1.0	76	70	130			Run: SUB-C99565 04/03/08 08:05
Sample ID: C08031249-001AMSD Lead 210	Sample Matrix Spike Duplicate 1350	pCi/Filter	1.0	105	70	130	29		Run: SUB-C99565 04/03/08 08:05 30
Sample ID: MB-R99565 Lead 210	Method Blank 30	pCi/L							Run: SUB-C99565 04/03/08 08:05
Sample ID: LCS-R99565 Lead 210	Laboratory Control Sample 100	pCi/L	1.0	87	70	130			Run: SUB-C99565 04/03/08 08:05

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/15/08
 Work Order: R08030253

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R99229		
Sample ID: R08030253-001H	Sample Matrix Spike				Run: SUB-C99229		04/02/08 10:10		
Lead 210	190	pCi/L	1.0	82	70	130			
Sample ID: R08030253-001H	Sample Matrix Spike Duplicate				Run: SUB-C99229		04/02/08 10:10		
Lead 210	190	pCi/L	1.0	84	70	130	2.5	30	
Sample ID: C08031265-004DDUP	Sample Duplicate				Run: SUB-C99229		04/02/08 10:10		
Lead 210	26	pCi/L	1.0				1.2	30	
Sample ID: MB-R99229	Method Blank				Run: SUB-C99229		04/02/08 10:10		
Lead 210	10	pCi/L							
Sample ID: LCS-R99229	Laboratory Control Sample				Run: SUB-C99229		04/02/08 10:10		
Lead 210	120	pCi/L	1.0	92	70	130			
Method: RMO-3008							Batch: C_R99661		
Sample ID: C08040148-009IMS	Sample Matrix Spike				Run: SUB-C99661		04/07/08 17:00		
Polonium 210	82	pCi/L	1.0	96	70	130			
Sample ID: C08040148-009IMSD	Sample Matrix Spike Duplicate				Run: SUB-C99661		04/07/08 17:00		
Polonium 210	78	pCi/L	1.0	92	70	130	4.5	30	
Sample ID: LCS-18171	Laboratory Control Sample				Run: SUB-C99661		04/07/08 17:00		
Polonium 210	190	pCi/L	1.0	108	70	130			
Sample ID: MB-18182	Method Blank				Run: SUB-C99661		04/07/08 17:00		
Polonium 210	1	pCi/L							
Method: RMO-3008							Batch: C_R99720		
Sample ID: C08030949-011DMS	Sample Matrix Spike				Run: SUB-C99720		04/02/08 14:00		
Polonium 210	15	pCi/L	1.0	42	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MS are acceptable the batch is approved.									
Sample ID: C08030949-011DMSD	Sample Matrix Spike Duplicate				Run: SUB-C99720		04/02/08 14:00		
Polonium 210	21	pCi/L	1.0	79	70	130	36	30	R
Sample ID: LCS-R99720	Laboratory Control Sample				Run: SUB-C99720		04/02/08 14:00		
Polonium 210	14	pCi/L	1.0	73	70	130			
Sample ID: MB-R99720	Method Blank				Run: SUB-C99720		04/02/08 14:00		
Polonium 210	0.8	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Page of

Company Name: RESPEC		Project Name, PWS, Permit, Etc. River Tail Dows Budok		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESPEC		Contact Name: Cary Foreman@respec.com		Email:	Sampler: (Please Print) Eric Kantz
Invoice Address: RESPEC		Phone/Fax:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - EII must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: <input type="checkbox"/> State: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: <input type="checkbox"/> NELAC					
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED	
1. Dows Budok SW	03/24/08	10:30	W	SEE ATTACHED Normal Turnaround (TAT) RUSH Contact EII prior to RUSH sample submittal for charges and scheduling -- See Instruction Page Comments: Receipt Temp: 2.0 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal: Y N Intact: Y N Signature Match: Y N	
2. Dows Budok SW	03/24/08	11:10	W		
3. Dows Budok SW	03/24/08	11:10	W		
4. Dows Budok SW	03/24/08	11:55	W		
5. Dows Budok SW	03/24/08	12:45	W		
6. Dows Budok SW	03/24/08	15:40	W		
7. Dows Budok SW	03/24/08	16:25	W		
8. Dows Budok SW	03/24/08	17:10	W		
9. Dows Budok SW	03/24/08	17:10	W		
10. Dows Budok SW	03/24/08	17:10	W		
Custody Record MUST be Signed	Requested by (print): Eric Kantz	Date/Time: 03/25/08 0810	Signature: <i>[Signature]</i>	Received by Laboratory: Eric Kantz	Date/Time: 03/25/08 0810
Sample Disposal:	Return to Client:	Lab Disposal:	Received by Laboratory: Eric Kantz	Date/Time: 03/25/08 0810	Signature: <i>[Signature]</i>

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

July 29, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08030315 Quote ID: R286
 Project Name: Edgemont

Energy Laboratories Inc. received the following 9 samples from RESPEC Inc on 3/31/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08030315-001	DewBurd GW694	03/30/08 10:11	03/31/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08030315-002	DewBurd GW698	03/30/08 14:04	03/31/08	Aqueous	Same As Above
R08030315-003	DewBurd GW698	03/30/08 14:10	03/31/08	Aqueous	Same As Above
R08030315-004	DewBurd GW16	03/30/08 15:19	03/31/08	Aqueous	Same As Above



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08030315

Report Date: 07/29/08

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- change GW 700 to GW 3026 per Eric Krantz 5/20/2008 per Eric 6/27/2008 change 695 to 697 done 6/27/2008 LL

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08040148

Prep Comments for Sample R08030315-009J, Test PRP-200.2: The prep HoldTime was exceeded by 30.9 days.

Prep Comments for Sample R08030315-009K, Test PRP-200.2: The prep HoldTime was exceeded by 37.8 days.

End of comments imported for SUBBED Workorder: C08040148



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-001
 Client Sample ID: DewBurd GW694

Report Date: 07/29/08
 Collection Date: 03/30/08 10:11
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	204	mg/L		5		1	A2320 B 04/01/08 12:41/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 04/01/08 12:41/mb
Bicarbonate as HCO3	249	mg/L		5		1	A2320 B 04/01/08 12:41/mb
Calcium	91.6	mg/L		0.5		2	E200.7 04/11/08 12:34/eli-c
Chloride	11	mg/L		1		1	E300.0 03/31/08 20:47/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 03/31/08 20:47/jmh
Magnesium	35.4	mg/L		0.5		2	E200.7 04/11/08 12:34/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 04/04/08 10:27/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 03/31/08 20:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 03/31/08 20:47/jmh
Potassium	12.3	mg/L		0.5		2	E200.7 04/11/08 12:34/eli-c
Silica	8.1	mg/L		0.5		2	E200.7 04/11/08 12:34/eli-c
Sodium	165	mg/L		0.5		2	E200.7 04/11/08 12:34/eli-c
Sulfate	531	mg/L	D	3		50	E300.0 03/31/08 20:32/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1370	umhos/cm		5.0		1	A2510 B 04/01/08 11:44/jmh
Oxidation-Reduction Potential	280	mV				1	A2580 B 04/04/08 00:00/jmh
pH	7.65	s.u.		0.01		1	A4500-H B 04/01/08 11:16/jmh
Sodium Adsorption Ratio (SAR)	3.7	unitless		0.10		1	Calculation 06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	970	mg/L		5		1	A2540 C 03/31/08 13:47/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 04/11/08 12:34/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 04/15/08 23:50/eli-c
Barium	ND	mg/L		0.1		2	E200.7 04/11/08 12:34/eli-c
Boron	ND	mg/L		0.1		2	E200.7 04/11/08 12:34/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 04/15/08 23:50/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 04/11/08 12:34/eli-c
Copper	ND	mg/L		0.01		1	E200.8 04/15/08 23:50/eli-c
Iron	ND	mg/L		0.03		2	E200.7 04/11/08 12:34/eli-c
Lead	ND	mg/L		0.001		1	E200.8 04/15/08 23:50/eli-c
Manganese	0.14	mg/L		0.01		2	E200.7 04/11/08 12:34/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 04/15/08 23:50/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 04/11/08 12:34/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 04/15/08 23:50/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 04/07/08 12:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/15/08 23:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 04/15/08 03:50/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-001
 Client Sample ID: DewBurd GW694

Report Date: 07/29/08
 Collection Date: 03/30/08 10:11
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0005	mg/L		0.0003		1	E200.8	04/15/08 23:50/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/11/08 12:34/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/11/08 12:34/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/15/08 22:16/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/07/08 09:31/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	8.8	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Alpha precision (±)	3.2	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Alpha MDC	4.1	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta	10.3	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta precision (±)	2.6	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta MDC	4.0	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Lead 210	-9.8	pCi/L	U	1.0		1	E909.0M	04/08/08 08:15/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	04/08/08 08:15/eli-c
Polonium 210	1.8	pCi/L		1.0		1	RMO-3008	04/03/08 14:30/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	04/03/08 14:30/eli-c
Radium 226	1.6	pCi/L				1	E903.0	04/20/08 01:14/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	04/20/08 01:14/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/20/08 01:14/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	04/07/08 14:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/07/08 14:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	04/10/08 09:00/eli-c
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	04/10/08 09:00/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	04/07/08 17:00/eli-c
Polonium 210 precision (±)	0.71	pCi/L				1	RMO-3008	04/07/08 17:00/eli-c
Radium 226	1	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	04/09/08 15:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-001
 Client Sample ID: DewBurd GW694

Report Date: 07/29/08
 Collection Date: 03/30/08 10:11
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	04/09/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	313	pCi/L		100			1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	79.4	pCi/L					1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	04/15/08 02:08/eli-c
Arsenic	0.005	mg/L	D	0.003			1	E200.8	04/15/08 02:08/eli-c
Barium	ND	mg/L		0.1			2	E200.7	04/10/08 14:56/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	04/15/08 02:08/eli-c
Boron	ND	mg/L		0.1			2	E200.7	04/10/08 14:56/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/15/08 02:08/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	04/10/08 14:56/eli-c
Copper	ND	mg/L		0.01			1	E200.8	04/15/08 02:08/eli-c
Iron	0.18	mg/L		0.03			2	E200.7	04/10/08 14:56/eli-c
Lead	ND	mg/L		0.001			1	E200.8	04/15/08 02:08/eli-c
Manganese	0.20	mg/L		0.01			2	E200.7	04/10/08 14:56/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	04/11/08 13:21/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	04/15/08 02:08/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	04/15/08 02:08/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	04/15/08 02:08/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/15/08 02:08/eli-c
Strontium	2.7	mg/L		0.1			1	E200.8	04/15/08 02:08/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	04/15/08 02:08/eli-c
Uranium	0.0006	mg/L		0.0003			1	E200.8	04/15/08 02:08/eli-c
Zinc	0.02	mg/L		0.01			1	E200.8	04/15/08 02:08/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.48						1	A1030 E	06/17/08 00:00/ADM
Anions	15.4	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	15.0	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	990	mg/L					1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.980						1	A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-002
 Client Sample ID: DewBurd GW698

Report Date: 07/29/08
 Collection Date: 03/30/08 14:04
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	124	mg/L		5		1	A2320 B	04/01/08 12:59/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/01/08 12:59/mb
Bicarbonate as HCO3	151	mg/L		5		1	A2320 B	04/01/08 12:59/mb
Calcium	338	mg/L		0.5		2	E200.7	04/11/08 12:44/eli-c
Chloride	12	mg/L		1		1	E300.0	03/31/08 21:18/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	03/31/08 21:18/jmh
Magnesium	125	mg/L		0.5		2	E200.7	04/11/08 12:44/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	04/04/08 10:28/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/31/08 21:18/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	03/31/08 21:18/jmh
Potassium	14.6	mg/L		0.5		2	E200.7	04/11/08 12:44/eli-c
Silica	9.5	mg/L		0.5		2	E200.7	04/11/08 12:44/eli-c
Sodium	84.6	mg/L		0.5		2	E200.7	04/11/08 12:44/eli-c
Sulfate	1300	mg/L	D	3		50	E300.0	03/31/08 21:03/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2390	umhos/cm		5.0		1	A2510 B	04/01/08 11:44/jmh
Oxidation-Reduction Potential	280	mV				1	A2580 B	04/04/08 00:00/jmh
pH	6.91	s.u.		0.01		1	A4500-H B	04/01/08 11:17/jmh
Sodium Adsorption Ratio (SAR)	1.0	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	03/31/08 13:48/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/11/08 12:44/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/16/08 00:17/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/11/08 12:44/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/11/08 12:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/16/08 00:17/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/11/08 12:44/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/16/08 00:17/eli-c
Iron	1.56	mg/L		0.03		2	E200.7	04/11/08 12:44/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/16/08 00:17/eli-c
Manganese	2.18	mg/L		0.01		2	E200.7	04/11/08 12:44/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/16/08 00:17/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/11/08 12:44/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/16/08 00:17/eli-c
Selenium	0.001	mg/L		0.001		1	A3114 B	04/07/08 12:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/15/08 03:56/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/15/08 03:56/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-002
 Client Sample ID: DewBurd GW698

Report Date: 07/29/08
 Collection Date: 03/30/08 14:04
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.109	mg/L		0.0003		1	E200.8	04/16/08 00:17/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/11/08 12:44/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	04/11/08 12:44/eli-c
METALS - SUSPENDED								
Uranium	0.0024	mg/L		0.0003		1	E200.8	04/15/08 22:22/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/07/08 09:38/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1750	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Alpha precision (±)	41.2	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Alpha MDC	8.4	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta	657	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta precision (±)	13.0	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta MDC	9.3	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Lead 210	-14	pCi/L	U	1.0		1	E909.0M	04/08/08 08:15/eli-c
Lead 210 precision (±)	3.1	pCi/L				1	E909.0M	04/08/08 08:15/eli-c
Polonium 210	1.0	pCi/L		1.0		1	RMO-3008	04/03/08 14:30/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	04/03/08 14:30/eli-c
Radium 226	387	pCi/L				1	E903.0	04/20/08 01:21/eli-c
Radium 226 precision (±)	13.8	pCi/L				1	E903.0	04/20/08 01:21/eli-c
Radium 226 MDC	1.0	pCi/L				1	E903.0	04/20/08 01:21/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/07/08 14:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/07/08 14:30/eli-c
Gross Gamma	790	pCi/L		20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	49	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	04/10/08 09:00/eli-c
Lead 210 precision (±)	0.7	pCi/L				1	E909.0M	04/10/08 09:00/eli-c
Polonium 210	1.2	pCi/L		1.0		1	RMO-3008	04/07/08 17:00/eli-c
Polonium 210 precision (±)	0.74	pCi/L				1	RMO-3008	04/07/08 17:00/eli-c
Radium 226	15.3	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Radium 226 precision (±)	1.2	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	04/09/08 15:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-002
 Client Sample ID: DewBurd GW698

Report Date: 07/29/08
 Collection Date: 03/30/08 14:04
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	04/09/08 15:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	32200	pCi/L		100		1 D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	266	pCi/L				1 D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	04/15/08 02:15/eli-c
Arsenic	0.004	mg/L	D	0.003		1 E200.8	04/15/08 02:15/eli-c
Barium	ND	mg/L		0.1		2 E200.7	04/10/08 15:00/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	04/15/08 02:15/eli-c
Boron	ND	mg/L		0.1		2 E200.7	04/10/08 15:00/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	04/15/08 02:15/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	04/10/08 15:00/eli-c
Copper	ND	mg/L		0.01		1 E200.8	04/15/08 02:15/eli-c
Iron	4.06	mg/L		0.03		2 E200.7	04/10/08 15:00/eli-c
Lead	ND	mg/L		0.001		1 E200.8	04/15/08 02:15/eli-c
Manganese	2.31	mg/L		0.01		2 E200.7	04/10/08 15:00/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	04/11/08 13:23/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	04/15/08 02:15/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	04/15/08 02:15/eli-c
Selenium	0.002	mg/L		0.001		1 E200.8	04/15/08 02:15/eli-c
Silver	ND	mg/L		0.005		1 E200.8	04/15/08 02:15/eli-c
Strontium	4.9	mg/L		0.1		1 E200.8	04/15/08 02:15/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	04/15/08 02:15/eli-c
Uranium	0.123	mg/L		0.0003		1 E200.8	04/15/08 02:15/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	04/15/08 02:15/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.58					1 A1030 E	06/17/08 00:00/ADM
Anions	29.9	meq/L				1 A1030 E	06/17/08 00:00/ADM
Cations	31.4	meq/L				1 A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	1970	mg/L				1 A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.13					1 A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-003
 Client Sample ID: DewBurd GW698

Report Date: 07/29/08
 Collection Date: 03/30/08 14:10
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	122	mg/L		5			1	A2320 B	04/01/08 13:05/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	04/01/08 13:05/mb
Bicarbonate as HCO3	149	mg/L		5			1	A2320 B	04/01/08 13:05/mb
Calcium	340	mg/L		0.5			2	E200.7	04/11/08 12:51/el-c
Chloride	11	mg/L		1			1	E300.0	03/31/08 21:49/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	03/31/08 21:49/jmh
Magnesium	126	mg/L		0.5			2	E200.7	04/11/08 12:51/el-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	04/04/08 10:29/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	03/31/08 21:49/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	03/31/08 21:49/jmh
Potassium	14.4	mg/L		0.5			2	E200.7	04/11/08 12:51/el-c
Silica	9.5	mg/L		0.5			2	E200.7	04/11/08 12:51/el-c
Sodium	83.7	mg/L		0.5			2	E200.7	04/11/08 12:51/el-c
Sulfate	1430	mg/L	D	3			50	E300.0	03/31/08 21:33/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2400	umhos/cm		5.0			1	A2510 B	04/01/08 11:45/jmh
Oxidation-Reduction Potential	190	mV					1	A2580 B	04/04/08 00:00/jmh
pH	6.91	s.u.		0.01			1	A4500-H B	04/01/08 11:18/jmh
Sodium Adsorption Ratio (SAR)	0.98	unitless		0.10			1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5			1	A2540 C	03/31/08 13:49/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	04/11/08 12:51/el-c
Arsenic	ND	mg/L		0.001			1	E200.8	04/16/08 01:52/el-c
Barium	ND	mg/L		0.1			2	E200.7	04/11/08 12:51/el-c
Boron	ND	mg/L		0.1			2	E200.7	04/11/08 12:51/el-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/16/08 01:52/el-c
Chromium	ND	mg/L		0.05			2	E200.7	04/11/08 12:51/el-c
Copper	ND	mg/L		0.01			1	E200.8	04/16/08 01:52/el-c
Iron	1.58	mg/L		0.03			2	E200.7	04/11/08 12:51/el-c
Lead	ND	mg/L		0.001			1	E200.8	04/16/08 01:52/el-c
Manganese	2.22	mg/L		0.01			2	E200.7	04/11/08 12:51/el-c
Mercury	ND	mg/L		0.001			1	E200.8	04/16/08 01:52/el-c
Molybdenum	ND	mg/L		0.1			2	E200.7	04/11/08 12:51/el-c
Nickel	ND	mg/L		0.05			1	E200.8	04/16/08 01:52/el-c
Selenium	ND	mg/L		0.001			1	A3114 B	04/07/08 12:17/el-c
Silver	ND	mg/L		0.005			1	E200.8	04/15/08 04:03/el-c
Thorium 232	ND	mg/L		0.005			1	E200.8	04/16/08 01:52/el-c

Report Definition: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-003
 Client Sample ID: DewBurd GW698

Report Date: 07/29/08
 Collection Date: 03/30/08 14:10
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.109	mg/L		0.0003		1 E200.8	04/16/08 01:52/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	04/11/08 12:51/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	04/11/08 12:51/eli-c
METALS - SUSPENDED							
Uranium	0.0024	mg/L		0.0003		1 E200.8	04/15/08 22:50/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	04/07/08 09:41/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1880	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Gross Alpha precision (±)	43.0	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Gross Alpha MDC	8.5	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Gross Beta	659	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Gross Beta precision (±)	13.0	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Gross Beta MDC	9.2	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Lead 210	-9.6	pCi/L	U	1.0		1 E909.0M	04/08/08 08:15/eli-c
Lead 210 precision (±)	2.5	pCi/L				1 E909.0M	04/08/08 08:15/eli-c
Polonium 210	1.3	pCi/L		1.0		1 RMO-3008	04/03/08 14:30/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1 RMO-3008	04/03/08 14:30/eli-c
Radium 226	398	pCi/L				1 E903.0	04/20/08 01:28/eli-c
Radium 226 precision (±)	14.2	pCi/L				1 E903.0	04/20/08 01:28/eli-c
Radium 226 MDC	1.1	pCi/L				1 E903.0	04/20/08 01:28/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1 E907.0	04/07/08 14:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	04/07/08 14:30/eli-c
Gross Gamma	840	pCi/L		20		1 E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	54	pCi/L				1 E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	0.0	pCi/L	U	1.0		1 E909.0M	04/10/08 09:00/eli-c
Lead 210 precision (±)	1.1	pCi/L				1 E909.0M	04/10/08 09:00/eli-c
Polonium 210	0.8	pCi/L	U	1.0		1 RMO-3008	04/07/08 17:00/eli-c
Polonium 210 precision (±)	0.64	pCi/L				1 RMO-3008	04/07/08 17:00/eli-c
Radium 226	12.4	pCi/L				1 E903.0	04/22/08 12:16/eli-c
Radium 226 precision (±)	1.1	pCi/L				1 E903.0	04/22/08 12:16/eli-c
Radium 226 MDC	0.4	pCi/L				1 E903.0	04/22/08 12:16/eli-c
Thorium 230	0.3	pCi/L		0.2		1 E907.0	04/09/08 15:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-003
 Client Sample ID: DewBurd GW698

Report Date: 07/29/08
 Collection Date: 03/30/08 14:10
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	04/09/08 15:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	29400	pCi/L		100		1 D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	255	pCi/L				1 D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	04/15/08 02:22/eli-c
Arsenic	0.003	mg/L	D	0.003		1 E200.8	04/15/08 02:22/eli-c
Barium	ND	mg/L		0.1		2 E200.7	04/10/08 15:03/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	04/15/08 02:22/eli-c
Boron	ND	mg/L		0.1		2 E200.7	04/10/08 15:03/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	04/15/08 02:22/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	04/10/08 15:03/eli-c
Copper	ND	mg/L		0.01		1 E200.8	04/15/08 02:22/eli-c
Iron	3.99	mg/L		0.03		2 E200.7	04/10/08 15:03/eli-c
Lead	ND	mg/L		0.001		1 E200.8	04/15/08 02:22/eli-c
Manganese	2.29	mg/L		0.01		2 E200.7	04/10/08 15:03/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	04/11/08 13:26/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	04/15/08 02:22/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	04/15/08 02:22/eli-c
Selenium	0.002	mg/L		0.001		1 E200.8	04/15/08 02:22/eli-c
Silver	ND	mg/L		0.005		1 E200.8	04/15/08 02:22/eli-c
Strontium	4.8	mg/L		0.1		1 E200.8	04/15/08 02:22/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	04/15/08 02:22/eli-c
Uranium	0.122	mg/L		0.0003		1 E200.8	04/15/08 02:22/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	04/15/08 02:22/eli-c
DATA QUALITY							
A/C Balance (± 5)	-1.60					1 A1030 E	06/17/08 00:00/ADM
Anions	32.6	meq/L				1 A1030 E	06/17/08 00:00/ADM
Cations	31.6	meq/L				1 A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	2110	mg/L				1 A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.07					1 A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-004
 Client Sample ID: DewBurd GW16

Report Date: 07/29/08
 Collection Date: 03/30/08 15:19
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	04/01/08 13:21/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/01/08 13:21/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	04/01/08 13:21/mb
Calcium	113	mg/L		0.5		2	E200.7	04/11/08 12:55/eli-c
Chloride	5	mg/L		1		1	E300.0	03/31/08 22:51/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	03/31/08 22:51/jmh
Magnesium	46.8	mg/L		0.5		2	E200.7	04/11/08 12:55/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/04/08 10:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/31/08 22:51/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	03/31/08 22:51/jmh
Potassium	15.1	mg/L		0.5		2	E200.7	04/11/08 12:55/eli-c
Silica	7.0	mg/L		0.5		2	E200.7	04/11/08 12:55/eli-c
Sodium	48.0	mg/L		0.5		2	E200.7	04/11/08 12:55/eli-c
Sulfate	449	mg/L	D	3		50	E300.0	03/31/08 22:04/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1050	umhos/cm		5.0		1	A2510 B	04/01/08 11:46/jmh
Oxidation-Reduction Potential	200	mV				1	A2580 B	04/04/08 00:00/jmh
pH	7.57	s.u.		0.01		1	A4500-H B	04/01/08 11:19/jmh
Sodium Adsorption Ratio (SAR)	0.96	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	780	mg/L		5		1	A2540 C	03/31/08 13:49/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/11/08 12:55/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/16/08 01:59/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/11/08 12:55/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/11/08 12:55/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/16/08 01:59/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/11/08 12:55/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/16/08 01:59/eli-c
Iron	ND	mg/L		0.03		2	E200.7	04/11/08 12:55/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/16/08 01:59/eli-c
Manganese	0.13	mg/L		0.01		2	E200.7	04/11/08 12:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/16/08 01:59/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/11/08 12:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/16/08 01:59/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/07/08 12:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/15/08 04:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/16/08 01:59/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-004
 Client Sample ID: DewBurd GW16

Report Date: 07/29/08
 Collection Date: 03/30/08 15:19
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0007	mg/L		0.0003		1	E200.8	04/16/08 01:59/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/11/08 12:55/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	04/11/08 12:55/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/15/08 22:56/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/07/08 09:43/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	85.7	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Alpha precision (±)	5.9	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Alpha MDC	3.2	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta	47.2	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta MDC	3.5	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Lead 210	-27	pCi/L	U	1.0		1	E909.0M	04/08/08 08:15/eli-c
Lead 210 precision (±)	4.1	pCi/L				1	E909.0M	04/08/08 08:15/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	04/03/08 14:30/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	04/03/08 14:30/eli-c
Radium 226	15.3	pCi/L				1	E903.0	04/20/08 02:58/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	04/20/08 02:58/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/20/08 02:58/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	04/07/08 14:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/07/08 14:30/eli-c
Gross Gamma	600	pCi/L		20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	47	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	04/10/08 09:00/eli-c
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	04/10/08 09:00/eli-c
Polonium 210	0.8	pCi/L	U	1.0		1	RMO-3008	04/07/08 17:00/eli-c
Polonium 210 precision (±)	0.57	pCi/L				1	RMO-3008	04/07/08 17:00/eli-c
Radium 226	1.4	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	04/09/08 15:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-004
 Client Sample ID: DewBurd GW16

Report Date: 07/29/08
 Collection Date: 03/30/08 15:19
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/09/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	28200	pCi/L		100		1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	249	pCi/L				1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	04/15/08 02:28/eli-c
Arsenic	0.004	mg/L	D	0.003		1	E200.8	04/15/08 02:28/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/10/08 15:06/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	04/15/08 02:28/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/10/08 15:06/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/15/08 02:28/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/10/08 15:06/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/15/08 02:28/eli-c
Iron	0.25	mg/L		0.03		2	E200.7	04/10/08 15:06/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/15/08 02:28/eli-c
Manganese	0.14	mg/L		0.01		2	E200.7	04/10/08 15:06/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	04/11/08 13:28/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/15/08 02:28/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/15/08 02:28/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	04/15/08 02:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/15/08 02:28/eli-c
Strontium	2.7	mg/L		0.1		1	E200.8	04/15/08 02:28/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	04/15/08 02:28/eli-c
Uranium	0.0007	mg/L		0.0003		1	E200.8	04/15/08 02:28/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8	04/15/08 02:28/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.00					1	A1030 E	06/17/08 00:00/ADM
Anions	12.5	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	12.0	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	786	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-005
 Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
 Collection Date: 03/30/08 15:10
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	04/01/08 13:25/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/01/08 13:25/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	04/01/08 13:25/mb
Calcium	ND	mg/L		0.5		2	E200.7	04/11/08 12:58/el-c
Chloride	ND	mg/L		1		1	E300.0	03/31/08 23:06/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	03/31/08 23:06/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	04/11/08 12:58/el-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/04/08 10:34/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/31/08 23:06/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	03/31/08 23:06/jmh
Potassium	ND	mg/L		0.5		2	E200.7	04/11/08 12:58/el-c
Silica	ND	mg/L		0.5		2	E200.7	04/11/08 12:58/el-c
Sodium	ND	mg/L		0.5		2	E200.7	04/11/08 12:58/el-c
Sulfate	ND	mg/L		1		1	E300.0	03/31/08 23:06/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5.7	umhos/cm		5.0		1	A2510 B	04/01/08 11:49/jmh
Oxidation-Reduction Potential	280	mV				1	A2580 B	04/04/08 00:00/jmh
pH	5.37	s.u.		0.01		1	A4500-H B	04/01/08 11:21/jmh
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	06/17/08 00:00/ADM
Solids, Total Dissolved TDS @ 180 C	28	mg/L		5		1	A2540 C	03/31/08 13:50/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/11/08 12:58/el-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/16/08 02:06/el-c
Barium	ND	mg/L		0.1		2	E200.7	04/11/08 12:58/el-c
Boron	ND	mg/L		0.1		2	E200.7	04/11/08 12:58/el-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/16/08 02:06/el-c
Chromium	ND	mg/L		0.05		2	E200.7	04/11/08 12:58/el-c
Copper	ND	mg/L		0.01		1	E200.8	04/16/08 02:06/el-c
Iron	ND	mg/L		0.03		2	E200.7	04/11/08 12:58/el-c
Lead	ND	mg/L		0.001		1	E200.8	04/16/08 02:06/el-c
Manganese	ND	mg/L		0.01		2	E200.7	04/11/08 12:58/el-c
Mercury	ND	mg/L		0.001		1	E200.8	04/16/08 02:06/el-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/11/08 12:58/el-c
Nickel	ND	mg/L		0.05		1	E200.8	04/16/08 02:06/el-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/07/08 12:21/el-c
Silver	ND	mg/L		0.005		1	E200.8	04/15/08 04:44/el-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-005
 Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
 Collection Date: 03/30/08 15:10
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	04/16/08 02:06/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/16/08 02:06/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/11/08 12:58/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/11/08 12:58/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/15/08 23:03/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/07/08 09:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-0.3	pCi/L	U			1	E900.0	04/12/08 02:38/eli-c
Gross Alpha precision (±)	0.6	pCi/L				1	E900.0	04/12/08 02:38/eli-c
Gross Alpha MDC	1.0	pCi/L				1	E900.0	04/12/08 02:38/eli-c
Gross Beta	-4	pCi/L				1	E900.0	04/12/08 02:38/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	04/12/08 02:38/eli-c
Gross Beta MDC	2.6	pCi/L				1	E900.0	04/12/08 02:38/eli-c
Lead 210	-4.2	pCi/L	U	1.0		1	E909.0M	04/08/08 08:15/eli-c
Lead 210 precision (±)	1.8	pCi/L				1	E909.0M	04/08/08 08:15/eli-c
Polonium 210	2.1	pCi/L		1.0		1	RMO-3008	04/03/08 14:30/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	04/03/08 14:30/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	04/20/08 04:29/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	04/20/08 04:29/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/20/08 04:29/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	04/07/08 14:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/07/08 14:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3.8	pCi/L	U	1.0		1	E909.0M	04/10/08 09:00/eli-c
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	04/10/08 09:00/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	04/07/08 17:00/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	04/07/08 17:00/eli-c
Radium 226	1.1	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	04/22/08 12:16/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-005
 Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
 Collection Date: 03/30/08 15:10
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	04/09/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/09/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	126	pCi/L		100		1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	74.1	pCi/L				1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	04/15/08 02:35/eli-c
Arsenic	0.003	mg/L	D	0.003		1	E200.8	04/15/08 02:35/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/10/08 15:10/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	04/15/08 02:35/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/10/08 15:10/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/15/08 02:35/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/10/08 15:10/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/15/08 02:35/eli-c
Iron	ND	mg/L		0.03		2	E200.7	04/10/08 15:10/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/15/08 02:35/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	04/10/08 15:10/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	04/11/08 13:31/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/15/08 02:35/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/15/08 02:35/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	04/15/08 02:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/15/08 02:35/eli-c
Strontium	ND	mg/L		0.1		1	E200.8	04/15/08 02:35/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	04/15/08 02:35/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/15/08 02:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/15/08 02:35/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-006
 Client Sample ID: DewBurd GW697

Report Date: 07/29/08
 Collection Date: 03/30/08 16:36
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	04/01/08 13:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/01/08 13:30/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	04/01/08 13:30/mb
Calcium	49.2	mg/L		0.5		2	E200.7	04/11/08 13:01/el-c
Chloride	10	mg/L		1		1	E300.0	04/01/08 00:08/fmh
Fluoride	0.5	mg/L		0.1		1	E300.0	04/01/08 00:08/fmh
Magnesium	16.9	mg/L		0.5		2	E200.7	04/11/08 13:01/el-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	04/04/08 10:38/fmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/01/08 00:08/fmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	04/01/08 00:08/fmh
Potassium	8.1	mg/L		0.5		2	E200.7	04/11/08 13:01/el-c
Silica	7.4	mg/L		0.5		2	E200.7	04/11/08 13:01/el-c
Sodium	197	mg/L		0.5		2	E200.7	04/11/08 13:01/el-c
Sulfate	452	mg/L	D	3		50	E300.0	03/31/08 23:52/fmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1250	umhos/cm		5.0		1	A2510 B	04/01/08 11:50/fmh
Oxidation-Reduction Potential	200	mV				1	A2580 B	04/04/08 00:00/fmh
pH	7.83	s.u.		0.01		1	A4500-H B	04/01/08 11:22/fmh
Sodium Adsorption Ratio (SAR)	6.2	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	800	mg/L		5		1	A2540 C	03/31/08 13:50/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/11/08 13:01/el-c
Arsenic	0.001	mg/L		0.001		1	E200.8	04/16/08 02:12/el-c
Barium	ND	mg/L		0.1		2	E200.7	04/11/08 13:01/el-c
Boron	ND	mg/L		0.1		2	E200.7	04/11/08 13:01/el-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/16/08 02:12/el-c
Chromium	ND	mg/L		0.05		2	E200.7	04/11/08 13:01/el-c
Copper	ND	mg/L		0.01		1	E200.8	04/16/08 02:12/el-c
Iron	0.03	mg/L		0.03		2	E200.7	04/11/08 13:01/el-c
Lead	ND	mg/L		0.001		1	E200.8	04/16/08 02:12/el-c
Manganese	0.05	mg/L		0.01		2	E200.7	04/11/08 13:01/el-c
Mercury	ND	mg/L		0.001		1	E200.8	04/16/08 02:12/el-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/11/08 13:01/el-c
Nickel	ND	mg/L		0.05		1	E200.8	04/16/08 02:12/el-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/07/08 12:23/el-c
Silver	ND	mg/L		0.005		1	E200.8	04/15/08 04:50/el-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/16/08 02:12/el-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-006
 Client Sample ID: DewBurd GW697

Report Date: 07/29/08
 Collection Date: 03/30/08 16:36
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		DF	Method	Analysis Date / By
					QCL				
METALS - DISSOLVED									
Uranium	ND	mg/L		0.0003			1	E200.8	04/16/08 02:12/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	04/11/08 13:01/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	04/11/08 13:01/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	04/15/08 23:10/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/07/08 09:48/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	6.1	pCi/L					1	E900.0	04/12/08 22:49/eli-c
Gross Alpha precision (±)	2.6	pCi/L					1	E900.0	04/12/08 22:49/eli-c
Gross Alpha MDC	3.5	pCi/L					1	E900.0	04/12/08 22:49/eli-c
Gross Beta	6.8	pCi/L					1	E900.0	04/12/08 22:49/eli-c
Gross Beta precision (±)	2.2	pCi/L					1	E900.0	04/12/08 22:49/eli-c
Gross Beta MDC	3.5	pCi/L					1	E900.0	04/12/08 22:49/eli-c
Lead 210	-23	pCi/L	U	1.0			1	E909.0M	04/08/08 08:15/eli-c
Lead 210 precision (±)	3.8	pCi/L					1	E909.0M	04/08/08 08:15/eli-c
Polonium 210	1.1	pCi/L		1.0			1	RMO-3008	04/03/08 14:30/eli-c
Polonium 210 precision (±)	1.2	pCi/L					1	RMO-3008	04/03/08 14:30/eli-c
Radium 226	1.5	pCi/L					1	E903.0	04/20/08 05:59/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	04/20/08 05:59/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	04/20/08 05:59/eli-c
Thorium 230	0.4	pCi/L		0.2			1	E907.0	04/07/08 14:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	04/07/08 14:30/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	-2.8	pCi/L	U	1.0			1	E909.0M	04/10/08 09:00/eli-c
Lead 210 precision (±)	0.8	pCi/L					1	E909.0M	04/10/08 09:00/eli-c
Polonium 210	0.9	pCi/L	U	1.0			1	RMO-3008	04/07/08 17:00/eli-c
Polonium 210 precision (±)	0.57	pCi/L					1	RMO-3008	04/07/08 17:00/eli-c
Radium 226	0.6	pCi/L					1	E903.0	04/22/08 12:16/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	04/22/08 12:16/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	04/22/08 12:16/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	04/09/08 15:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-006
 Client Sample ID: DewBurd GW697

Report Date: 07/29/08
 Collection Date: 03/30/08 16:36
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/09/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	323	pCi/L		100		1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	76.0	pCi/L				1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	04/15/08 03:09/eli-c
Arsenic	ND	mg/L	D	0.003		1	E200.8	04/15/08 03:09/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/10/08 15:13/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	04/15/08 03:09/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/10/08 15:13/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/15/08 03:09/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/10/08 15:13/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/15/08 03:09/eli-c
Iron	0.06	mg/L		0.03		2	E200.7	04/10/08 15:13/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/15/08 03:09/eli-c
Manganese	0.05	mg/L		0.01		2	E200.7	04/10/08 15:13/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	04/11/08 13:38/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/15/08 03:09/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/15/08 03:09/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	04/15/08 03:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/15/08 03:09/eli-c
Strontium	1.1	mg/L		0.1		1	E200.8	04/15/08 03:09/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	04/15/08 03:09/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/15/08 03:09/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/15/08 03:09/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.53					1	A1030 E	06/17/08 00:00/ADM
Anions	13.0	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	12.6	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	853	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.930					1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-007
 Client Sample ID: DewBurd GW689

Report Date: 07/29/08
 Collection Date: 03/30/08 17:25
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B	04/01/08 13:34/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/01/08 13:34/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B	04/01/08 13:34/mb
Calcium	43.8	mg/L		0.5		2	E200.7	04/11/08 13:05/eii-c
Chloride	7	mg/L		1		1	E300.0	04/01/08 00:38/fmh
Fluoride	0.5	mg/L		0.1		1	E300.0	04/01/08 00:38/fmh
Magnesium	15.6	mg/L		0.5		2	E200.7	04/11/08 13:05/eii-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/04/08 10:39/fmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/01/08 00:38/fmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	04/01/08 00:38/fmh
Potassium	7.4	mg/L		0.5		2	E200.7	04/11/08 13:05/eii-c
Silica	7.7	mg/L		0.5		2	E200.7	04/11/08 13:05/eii-c
Sodium	165	mg/L		0.5		2	E200.7	04/11/08 13:05/eii-c
Sulfate	421	mg/L	D	3		50	E300.0	04/01/08 00:23/fmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1080	umhos/cm		5.0		1	A2510 B	04/01/08 11:52/fmh
Oxidation-Reduction Potential	190	mV				1	A2580 B	04/04/08 00:00/fmh
pH	7.85	s.u.		0.01		1	A4500-H B	04/01/08 11:22/fmh
Sodium Adsorption Ratio (SAR)	5.4	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	720	mg/L		5		1	A2540 C	03/31/08 13:51/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/11/08 13:05/eii-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/16/08 02:19/eii-c
Barium	ND	mg/L		0.1		2	E200.7	04/11/08 13:05/eii-c
Boron	ND	mg/L		0.1		2	E200.7	04/11/08 13:05/eii-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/16/08 02:19/eii-c
Chromium	ND	mg/L		0.05		2	E200.7	04/11/08 13:05/eii-c
Copper	ND	mg/L		0.01		1	E200.8	04/16/08 02:19/eii-c
Iron	ND	mg/L		0.03		2	E200.7	04/11/08 13:05/eii-c
Lead	ND	mg/L		0.001		1	E200.8	04/16/08 02:19/eii-c
Manganese	0.03	mg/L		0.01		2	E200.7	04/11/08 13:05/eii-c
Mercury	ND	mg/L		0.001		1	E200.8	04/16/08 02:19/eii-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/11/08 13:05/eii-c
Nickel	ND	mg/L		0.05		1	E200.8	04/16/08 02:19/eii-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/07/08 12:30/eii-c
Silver	ND	mg/L		0.005		1	E200.8	04/15/08 04:57/eii-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/16/08 02:19/eii-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-007
 Client Sample ID: DewBurd GW689

Report Date: 07/29/08
 Collection Date: 03/30/08 17:25
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0032	mg/L		0.0003		1	E200.8	04/16/08 02:19/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/11/08 13:05/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/11/08 13:05/eli-c
METALS - SUSPENDED								
Uranium	0.0005	mg/L		0.0003		1	E200.8	04/15/08 23:17/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/07/08 09:59/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	64.3	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Alpha precision (±)	5.1	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Alpha MDC	3.0	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta	21.2	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta MDC	3.1	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Lead 210	-31	pCi/L	U	1.0		1	E909.0M	04/08/08 08:15/eli-c
Lead 210 precision (±)	4.4	pCi/L				1	E909.0M	04/08/08 08:15/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	04/03/08 14:30/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	04/03/08 14:30/eli-c
Radium 226	7.9	pCi/L				1	E903.0	04/20/08 07:30/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/20/08 07:30/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/20/08 07:30/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	04/07/08 14:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/07/08 14:30/eli-c
Gross Gamma	86	pCi/L		20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	25	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	04/10/08 09:00/eli-c
Lead 210 precision (±)	0.5	pCi/L				1	E909.0M	04/10/08 09:00/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1	RMO-3008	04/07/08 17:00/eli-c
Polonium 210 precision (±)	0.45	pCi/L				1	RMO-3008	04/07/08 17:00/eli-c
Radium 226	2.0	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	04/22/08 12:16/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	04/09/08 15:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-007
 Client Sample ID: DewBurd GW689

Report Date: 07/29/08
 Collection Date: 03/30/08 17:25
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	04/09/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1950	pCi/L		100			1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	94.4	pCi/L					1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	04/15/08 03:16/eli-c
Arsenic	ND	mg/L	D	0.003			1	E200.8	04/15/08 03:16/eli-c
Barium	ND	mg/L		0.1			2	E200.7	04/10/08 15:17/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	04/15/08 03:16/eli-c
Boron	ND	mg/L		0.1			2	E200.7	04/10/08 15:17/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/15/08 03:16/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	04/10/08 15:17/eli-c
Copper	ND	mg/L		0.01			1	E200.8	04/15/08 03:16/eli-c
Iron	0.72	mg/L		0.03			2	E200.7	04/10/08 15:17/eli-c
Lead	ND	mg/L		0.001			1	E200.8	04/15/08 03:16/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	04/10/08 15:17/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	04/11/08 13:40/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	04/15/08 03:16/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	04/15/08 03:16/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	04/15/08 03:16/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/15/08 03:16/eli-c
Strontium	0.9	mg/L		0.1			1	E200.8	04/15/08 03:16/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	04/15/08 03:16/eli-c
Uranium	0.0041	mg/L		0.0003			1	E200.8	04/15/08 03:16/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	04/15/08 03:16/eli-c
DATA QUALITY									
AVC Balance (± 5)	-4.96						1	A1030 E	06/17/08 00:00/ADM
Anions	12.0	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	10.8	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	771	mg/L					1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.930						1	A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-008
 Client Sample ID: DewBurd GW681

Report Date: 07/29/08
 Collection Date: 03/30/08 17:50
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B	04/01/08 13:45/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/01/08 13:45/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B	04/01/08 13:45/mb
Calcium	59.9	mg/L		0.5		2	E200.7	04/11/08 13:18/eli-c
Chloride	17	mg/L		1		1	E300.0	04/01/08 01:40/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	04/01/08 01:40/jmh
Magnesium	23.9	mg/L		0.5		2	E200.7	04/11/08 13:18/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/04/08 10:40/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/01/08 01:40/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	04/01/08 01:40/jmh
Potassium	9.2	mg/L		0.5		2	E200.7	04/11/08 13:18/eli-c
Silica	7.2	mg/L		0.5		2	E200.7	04/11/08 13:18/eli-c
Sodium	197	mg/L		0.5		2	E200.7	04/11/08 13:18/eli-c
Sulfate	478	mg/L	D	3		50	E300.0	04/01/08 01:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1320	umhos/cm		5.0		1	A2510 B	04/01/08 11:54/jmh
Oxidation-Reduction Potential	170	mV				1	A2580 B	04/04/08 00:00/jmh
pH	7.80	s.u.		0.01		1	A4500-H B	04/01/08 11:24/jmh
Sodium Adsorption Ratio (SAR)	5.4	unitless		0.10		1	Calculation	06/17/08 18:29/ADM
Solids, Total Dissolved TDS @ 180 C	910	mg/L		5		1	A2540 C	03/31/08 13:53/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/11/08 13:18/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/16/08 02:26/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/11/08 13:18/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/11/08 13:18/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/16/08 02:26/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/11/08 13:18/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/16/08 02:26/eli-c
Iron	ND	mg/L		0.03		2	E200.7	04/11/08 13:18/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/16/08 02:26/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7	04/11/08 13:18/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/16/08 02:26/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/11/08 13:18/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/16/08 02:26/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/07/08 12:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/15/08 05:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/16/08 02:26/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-008
 Client Sample ID: DewBurd GW681

Report Date: 07/29/08
 Collection Date: 03/30/08 17:50
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0092	mg/L		0.0003		1	E200.8	04/16/08 02:26/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/11/08 13:18/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/11/08 13:18/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/15/08 23:23/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/07/08 10:01/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	2170	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Alpha precision (±)	30.8	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Alpha MDC	3.8	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta	659	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta precision (±)	8.1	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Gross Beta MDC	4.0	pCi/L				1	E900.0	04/12/08 22:49/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	04/08/08 08:15/eli-c
Lead 210 precision (±)	3.3	pCi/L				1	E909.0M	04/08/08 08:15/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1	RMO-3008	04/03/08 14:30/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	04/03/08 14:30/eli-c
Radium 226	414	pCi/L				1	E903.0	04/20/08 07:36/eli-c
Radium 226 precision (±)	14.8	pCi/L				1	E903.0	04/20/08 07:36/eli-c
Radium 226 MDC	1.1	pCi/L				1	E903.0	04/20/08 07:36/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	04/07/08 14:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/07/08 14:30/eli-c
Gross Gamma	2300	pCi/L		20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	82	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	16.8	pCi/L		1.0		1	E909.0M	04/10/08 09:00/eli-c
Lead 210 precision (±)	1.8	pCi/L				1	E909.0M	04/10/08 09:00/eli-c
Polonium 210	1.2	pCi/L		1.0		1	RMO-3008	04/07/08 17:00/eli-c
Polonium 210 precision (±)	0.57	pCi/L				1	RMO-3008	04/07/08 17:00/eli-c
Radium 226	3.5	pCi/L				1	E903.0	04/22/08 13:51/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	04/22/08 13:51/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	04/22/08 13:51/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	04/09/08 15:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-008
 Client Sample ID: DewBurd GW681

Report Date: 07/29/08
 Collection Date: 03/30/08 17:50
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	04/09/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	254000	pCi/L		100			1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	711	pCi/L					1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	04/15/08 03:23/eli-c
Arsenic	0.005	mg/L	D	0.003			1	E200.8	04/15/08 03:23/eli-c
Barium	ND	mg/L		0.1			2	E200.7	04/10/08 15:20/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	04/15/08 03:23/eli-c
Boron	ND	mg/L		0.1			2	E200.7	04/10/08 15:20/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/15/08 03:23/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	04/10/08 15:20/eli-c
Copper	ND	mg/L		0.01			1	E200.8	04/15/08 03:23/eli-c
Iron	ND	mg/L		0.03			2	E200.7	04/10/08 15:20/eli-c
Lead	ND	mg/L		0.001			1	E200.8	04/15/08 03:23/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	04/10/08 15:20/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	04/11/08 13:47/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	04/15/08 03:23/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	04/15/08 03:23/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	04/15/08 03:23/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/15/08 03:23/eli-c
Strontium	1.2	mg/L		0.1			1	E200.8	04/15/08 03:23/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	04/15/08 03:23/eli-c
Uranium	0.0099	mg/L		0.0003			1	E200.8	04/15/08 03:23/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	04/15/08 03:23/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.500						1	A1030 E	06/17/08 00:00/ADM
Anions	13.9	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	13.8	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	908	mg/L					1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.01						1	A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-009
 Client Sample ID: DewBurd GW3026

Report Date: 07/29/08
 Collection Date: 03/30/08 18:45
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	130	mg/L		5		1	A2320 B	04/01/08 13:40/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/01/08 13:40/mb
Bicarbonate as HCO3	158	mg/L		5		1	A2320 B	04/01/08 13:40/mb
Calcium	284	mg/L		0.5		2	E200.7	04/11/08 13:21/el-c
Chloride	37	mg/L	D	5		50	E300.0	04/01/08 00:54/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	04/01/08 01:09/jmh
Magnesium	67.9	mg/L		0.5		2	E200.7	04/11/08 13:21/el-c
Nitrogen, Ammonia as N	1.2	mg/L		0.1		2	A4500-NH3 G	04/04/08 11:02/jmh
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	04/01/08 01:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	04/01/08 01:09/jmh
Potassium	21.3	mg/L		0.5		2	E200.7	04/11/08 13:21/el-c
Silica	5.7	mg/L		0.5		2	E200.7	04/11/08 13:21/el-c
Sodium	271	mg/L		0.5		2	E200.7	04/11/08 13:21/el-c
Sulfate	1470	mg/L	D	3		50	E300.0	04/01/08 00:54/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2770	umhos/cm		5.0		1	A2510 B	04/01/08 11:53/jmh
Oxidation-Reduction Potential	200	mV				1	A2580 B	04/04/08 00:00/jmh
pH	7.63	s.u.		0.01		1	A4500-H B	04/01/08 11:23/jmh
Sodium Adsorption Ratio (SAR)	3.7	unitless		0.10		1	Calculation	06/17/08 18:29/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	03/31/08 13:51/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/11/08 13:21/el-c
Arsenic	0.004	mg/L		0.001		1	E200.8	04/16/08 02:33/el-c
Barium	ND	mg/L		0.1		2	E200.7	04/11/08 13:21/el-c
Boron	ND	mg/L		0.1		2	E200.7	04/11/08 13:21/el-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/16/08 02:33/el-c
Chromium	ND	mg/L		0.05		2	E200.7	04/11/08 13:21/el-c
Copper	ND	mg/L		0.01		1	E200.8	04/16/08 02:33/el-c
Iron	0.10	mg/L		0.03		2	E200.7	04/11/08 13:21/el-c
Lead	ND	mg/L		0.001		1	E200.8	04/16/08 02:33/el-c
Manganese	0.42	mg/L		0.01		2	E200.7	04/11/08 13:21/el-c
Mercury	ND	mg/L		0.001		1	E200.8	04/16/08 02:33/el-c
Molybdenum	0.2	mg/L		0.1		2	E200.7	04/11/08 13:21/el-c
Nickel	ND	mg/L		0.05		1	E200.8	04/15/08 05:11/el-c
Selenium	0.006	mg/L		0.001		1	A3114 B	04/07/08 12:34/el-c
Silver	ND	mg/L		0.005		1	E200.8	04/16/08 02:33/el-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/16/08 02:33/el-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-009
 Client Sample ID: DewBurd GW3026

Report Date: 07/29/08
 Collection Date: 03/30/08 18:45
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0151	mg/L		0.0003		1 E200.8	04/16/08 02:33/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	04/11/08 13:21/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	04/11/08 13:21/eli-c
- The Uranium result was confirmed by re-analysis.							
METALS - SUSPENDED							
Uranium	0.0040	mg/L		0.0003		1 E200.8	04/15/08 23:30/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	04/07/08 10:04/eli-c
Selenium-VI	0.006	mg/L		0.001		1 A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	47.6	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Gross Alpha precision (±)	8.9	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Gross Alpha MDC	9.2	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Gross Beta	21.1	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Gross Beta precision (±)	5.9	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Gross Beta MDC	9.3	pCi/L				1 E900.0	04/12/08 22:49/eli-c
Lead 210	ND	pCi/L	U	1.0		1 E909.0M	04/08/08 08:15/eli-c
Lead 210 precision (±)	2.1	pCi/L				1 E909.0M	04/08/08 08:15/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1 RMO-3008	04/03/08 14:30/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1 RMO-3008	04/03/08 14:30/eli-c
Radium 226	3.6	pCi/L				1 E903.0	04/20/08 09:07/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	04/20/08 09:07/eli-c
Radium 226 MDC	0.2	pCi/L				1 E903.0	04/20/08 09:07/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	04/07/08 14:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	04/07/08 14:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-3.0	pCi/L	U	1.0		1 E909.0M	04/10/08 09:00/eli-c
Lead 210 precision (±)	0.8	pCi/L				1 E909.0M	04/10/08 09:00/eli-c
Polonium 210	1.9	pCi/L		1.0		1 RMO-3008	04/07/08 17:00/eli-c
Polonium 210 precision (±)	0.88	pCi/L				1 RMO-3008	04/07/08 17:00/eli-c
Radium 226	3.3	pCi/L				1 E903.0	04/22/08 13:51/eli-c
Radium 226 precision (±)	0.6	pCi/L				1 E903.0	04/22/08 13:51/eli-c
Radium 226 MDC	0.3	pCi/L				1 E903.0	04/22/08 13:51/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08030315-009
 Client Sample ID: DewBurd GW3026

Report Date: 07/29/08
 Collection Date: 03/30/08 18:45
 Date Received: 03/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	1	pCi/L		0.2			1	E907.0	04/09/08 15:00/el-c
Thorium 230 precision (±)	0.4	pCi/L					1	E907.0	04/09/08 15:00/el-c
RADIONUCLIDES - TOTAL									
Radon 222	440	pCi/L		100			1	D5072-92	04/03/08 18:27/el-c
Radon 222 precision (±)	76.3	pCi/L					1	D5072-92	04/03/08 18:27/el-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	04/15/08 03:29/el-c
Arsenic	0.023	mg/L		0.001			1	E200.8	04/15/08 03:29/el-c
Barium	ND	mg/L		0.1			2	E200.7	04/10/08 15:23/el-c
Beryllium	ND	mg/L		0.001			1	E200.8	04/15/08 03:29/el-c
Boron	ND	mg/L		0.1			2	E200.7	04/10/08 15:23/el-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/15/08 03:29/el-c
Chromium	ND	mg/L		0.05			2	E200.7	04/10/08 15:23/el-c
Copper	ND	mg/L		0.01			1	E200.8	04/15/08 03:29/el-c
Iron	1.75	mg/L		0.03			2	E200.7	04/10/08 15:23/el-c
Lead	ND	mg/L		0.001			1	E200.8	04/15/08 03:29/el-c
Manganese	0.13	mg/L		0.01			2	E200.7	04/10/08 15:23/el-c
Mercury	ND	mg/L		0.001			1	E245.1	04/11/08 13:50/el-b
Molybdenum	0.3	mg/L		0.1			1	E200.8	04/15/08 03:29/el-c
Nickel	ND	mg/L		0.05			1	E200.8	04/15/08 03:29/el-c
Selenium	0.007	mg/L		0.001			1	E200.8	04/15/08 03:29/el-c
Silver	ND	mg/L		0.005			1	E200.8	04/15/08 03:29/el-c
Strontium	4.8	mg/L		0.1			1	E200.8	04/15/08 03:29/el-c
Thallium	ND	mg/L		0.001			1	E200.8	04/15/08 03:29/el-c
Uranium	0.0097	mg/L		0.0003			1	E200.8	06/06/08 16:14/el-c
Zinc	ND	mg/L		0.01			1	E200.8	04/15/08 03:29/el-c
- The Uranium result was confirmed by re-digestion, and re-analysis.									
DATA QUALITY									
A/C Balance (± 5)	-2.96						1	A1030 E	06/17/08 00:00/ADM
Anions	34.2	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	32.2	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	2240	mg/L					1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.03						1	A1030 E	06/17/08 00:00/ADM

Report Definition: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080401A-ALK-SEL-W		
Sample ID: LCS1_080401A	Laboratory Control Sample					Run: PH_COND1-R_080401A		04/01/08 12:24	
Alkalinity, Total as CaCO3	972	mg/L	5.0	97	90	110			
Sample ID: MBLK1_080401A	Method Blank					Run: PH_COND1-R_080401A		04/01/08 12:36	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08030315-001ADUP	Sample Duplicate					Run: PH_COND1-R_080401A		04/01/08 00:00	
Alkalinity, Total as CaCO3	204	mg/L	5.0				0.0	10	
Carbonate as CO3	ND	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	249	mg/L	5.0				0.0	10	
Sample ID: R08030315-003AMS	Sample Matrix Spike					Run: PH_COND1-R_080401A		04/01/08 13:14	
Alkalinity, Total as CaCO3	226	mg/L	5.0	98	80	120			
Method: A2510 B							Batch: 080401_1_COND-PROBE-W		
Sample ID: LCS1-1_080401	Laboratory Control Sample					Run: PH_COND2-R_080401A		04/01/08 11:30	
Conductivity @ 25 C	147	umhos/cm	5.0	98	90	110			
Sample ID: LCS2-1_080401	Laboratory Control Sample					Run: PH_COND2-R_080401A		04/01/08 11:32	
Conductivity @ 25 C	4640	umhos/cm	5.0	93	90	110			
Sample ID: LCS_COND-1_080401	Laboratory Control Sample					Run: PH_COND2-R_080401A		04/01/08 11:33	
Conductivity @ 25 C	1400	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_080401	Method Blank					Run: PH_COND2-R_080401A		04/01/08 11:34	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08030315-005ADUP	Sample Duplicate					Run: PH_COND2-R_080401A		04/01/08 11:49	
Conductivity @ 25 C	5.58	umhos/cm	5.0				2.0	10	
Method: A2540 C							Batch: 080331A-SLDS-TDS-W		
Sample ID: LCS1_080331A	Laboratory Control Sample					Run: BAL-4-R_080331A		03/31/08 08:28	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	100	90	110			
Sample ID: MBLK1_080331A	Method Blank					Run: BAL-4-R_080331A		03/31/08 08:30	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08030315-001AMS	Sample Matrix Spike					Run: BAL-4-R_080331A		03/31/08 13:47	
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	5.0	113	80	120			
Sample ID: R08030315-001AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080331A		03/31/08 13:48	
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	5.0	119	80	120	1.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE-3114-080407A		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	6E-05						Run: SUB-C99208 04/07/08 12:04
Sample ID: 288-54-6	Laboratory Control Sample								
Selenium	0.050	mg/L	0.0010	100	90	110			Run: SUB-C99208 04/07/08 12:06
Sample ID: R08030315-001E	Sample Matrix Spike								
Selenium	0.050	mg/L	0.0010	98	85	115			Run: SUB-C99208 04/07/08 12:10
Sample ID: R08030315-001E	Sample Matrix Spike Duplicate								
Selenium	0.051	mg/L	0.0010	99	85	115	1.4	10	Run: SUB-C99208 04/07/08 12:12
Sample ID: C08040192-002EMS	Sample Matrix Spike								
Selenium	0.050	mg/L	0.0010	99	85	115			Run: SUB-C99208 04/07/08 12:41
Sample ID: C08040192-002EMSD	Sample Matrix Spike Duplicate								
Selenium	0.051	mg/L	0.0010	101	85	115	2.0	10	Run: SUB-C99208 04/07/08 12:43
Method: A3114 B							Batch: C_SEIV-3114-080407		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	6E-05						Run: SUB-C99195 04/07/08 09:27
Sample ID: 288-54-6	Laboratory Control Sample								
Selenium-IV	0.045	mg/L	0.0010	91	90	110			Run: SUB-C99195 04/07/08 09:29
Sample ID: R08030315-001E	Sample Matrix Spike								
Selenium-IV	0.045	mg/L	0.0010	90	85	115			Run: SUB-C99195 04/07/08 09:33
Sample ID: R08030315-001E	Sample Matrix Spike Duplicate								
Selenium-IV	0.044	mg/L	0.0010	89	85	115	0.9	10	Run: SUB-C99195 04/07/08 09:36
Sample ID: C08040192-002EMS	Sample Matrix Spike								
Selenium-IV	0.043	mg/L	0.0010	86	85	115			Run: SUB-C99195 04/07/08 10:10
Sample ID: C08040192-002EMSD	Sample Matrix Spike Duplicate								
Selenium-IV	0.045	mg/L	0.0010	90	85	115	4.7	10	Run: SUB-C99195 04/07/08 10:12
Method: A4500-H B							Batch: 080401_1_PH-W		
Sample ID: LCS_pH-1_080401	Laboratory Control Sample								
pH	6.93	s.u.	0.010	101	98.55	101.45			Run: PH_COND2-R_080401A 04/01/08 11:13
Sample ID: R08030302-001BDUP	Sample Duplicate								
pH	7.20	s.u.	0.010				0.3	1.25	Run: PH_COND2-R_080401A 04/01/08 11:15

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-04-04_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
					Run: TECHAA2-R_080404A			04/04/08 09:05	
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			
					Run: TECHAA2-R_080404A			04/04/08 09:06	
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			
					Run: TECHAA2-R_080404A			04/04/08 09:08	
Sample ID: R08030315-005BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.22	mg/L	0.10	86	80	120			
					Run: TECHAA2-R_080404A			04/04/08 10:35	
Sample ID: R08030315-005BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.20	mg/L	0.10	81	80	120	6.2	10	
					Run: TECHAA2-R_080404A			04/04/08 10:36	
Sample ID: R08040003-001CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.19	mg/L	0.10	76	80	120			S
					Run: TECHAA2-R_080404A			04/04/08 10:49	
Sample ID: R08040003-001CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.19	mg/L	0.10	74	80	120	3.2	10	S
					Run: TECHAA2-R_080404A			04/04/08 10:50	
Method: D6072-92							Batch: C_R99230		
Sample ID: R08030315-002G Radon 222	Sample Duplicate 29900	pCi/L	100				7.3	30	
					Run: SUB-C99230			04/03/08 18:27	
Sample ID: C08040148-009GDUP Radon 222	Sample Duplicate 464	pCi/L	100				5.5	30	
					Run: SUB-C99230			04/03/08 18:27	
Sample ID: MB-R99230 Radon 222	Method Blank -10	pCi/L							U
					Run: SUB-C99230			04/03/08 18:27	
Sample ID: LCS-R99230 Radon 222	Laboratory Control Sample 298	pCi/L	100	98	70	130			
					Run: SUB-C99230			04/03/08 18:27	

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18205		
Sample ID: MB-18205	Method Blank			Run: SUB-C99463			04/10/08 14:13		
Barium	ND	mg/L	0.004						
Boron	ND	mg/L	0.006						
Chromium	0.005	mg/L	0.003						
Iron	0.007	mg/L	0.005						
Manganese	ND	mg/L	0.0008						
Sample ID: LCS-18205	Laboratory Control Sample			Run: SUB-C99463			04/10/08 14:16		
Barium	0.484	mg/L	0.10	97	85	115			
Boron	0.478	mg/L	0.10	96	85	115			
Chromium	0.493	mg/L	0.050	98	85	115			
Iron	0.489	mg/L	0.030	96	85	115			
Manganese	0.478	mg/L	0.010	96	85	115			
Sample ID: R08030315-009D	Sample Matrix Spike			Run: SUB-C99463			04/10/08 15:27		
Barium	0.481	mg/L	0.10	93	70	130			
Boron	0.520	mg/L	0.10	91	70	130			
Chromium	0.466	mg/L	0.050	93	70	130			
Iron	2.27	mg/L	0.030	103	70	130			
Manganese	0.594	mg/L	0.010	93	70	130			
Sample ID: R08030315-009D	Sample Matrix Spike Duplicate			Run: SUB-C99463			04/10/08 15:30		
Barium	0.474	mg/L	0.10	92	70	130	1.5	20	
Boron	0.511	mg/L	0.10	89	70	130	1.8	20	
Chromium	0.460	mg/L	0.050	92	70	130	1.3	20	
Iron	2.28	mg/L	0.030	105	70	130	0.5	20	
Manganese	0.583	mg/L	0.010	91	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99540		
Sample ID: MB-080411A	Method Blank		Run: SUB-C99540			04/11/08 09:38			
Silica	ND	mg/L	0.06						
Aluminum	ND	mg/L	0.008						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Chromium	ND	mg/L	0.003						
Copper	ND	mg/L	0.005						
Iron	0.003	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Manganese	0.0005	mg/L	0.0004						
Molybdenum	0.01	mg/L	0.01						
Potassium	ND	mg/L	0.08						
Sodium	ND	mg/L	0.06						
Vanadium	0.008	mg/L	0.006						
Zinc	ND	mg/L	0.004						
Sample ID: LFB-080411A	Laboratory Fortified Blank		Run: SUB-C99540			04/11/08 09:42			
Silica	0.96	mg/L	0.10	96	85	125			
Aluminum	0.92	mg/L	0.10	92	85	125			
Barium	0.91	mg/L	0.10	91	85	125			
Boron	0.93	mg/L	0.10	93	85	125			
Calcium	49	mg/L	0.50	98	85	125			
Chromium	0.92	mg/L	0.050	92	85	125			
Copper	0.89	mg/L	0.010	89	85	125			
Iron	0.92	mg/L	0.030	91	85	125			
Magnesium	49	mg/L	0.50	98	85	125			
Manganese	0.90	mg/L	0.010	90	85	125			
Molybdenum	0.98	mg/L	0.10	96	85	125			
Potassium	45	mg/L	0.50	91	85	125			
Sodium	47	mg/L	0.50	94	85	125			
Vanadium	0.96	mg/L	0.10	95	85	125			
Zinc	0.93	mg/L	0.010	93	85	125			
Sample ID: C08040269-001 CM S2	Sample Matrix Spike		Run: SUB-C99540			04/11/08 13:38			
Aluminum	0.890	mg/L	0.10	84	70	130			
Barium	0.973	mg/L	0.10	86	70	130			
Boron	0.888	mg/L	0.10	85	70	130			
Calcium	124	mg/L	0.50	80	70	130			
Chromium	0.875	mg/L	0.050	86	70	130			
Copper	0.855	mg/L	0.010	83	70	130			
Iron	0.945	mg/L	0.030	86	70	130			
Magnesium	66.1	mg/L	0.50	87	70	130			
Manganese	0.921	mg/L	0.010	85	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99540		
Sample ID: C08040269-001CM S2	Sample Matrix Spike			Run: SUB-C99540			04/11/08 13:38		
Molybdenum	0.903	mg/L	0.10	89	70	130			
Potassium	46.0	mg/L	0.50	87	70	130			
Sodium	59.6	mg/L	0.50	88	70	130			
Vanadium	0.916	mg/L	0.10	90	70	130			
Zinc	0.922	mg/L	0.010	90	70	130			
Sample ID: C08040269-001CM SD2	Sample Matrix Spike Duplicate			Run: SUB-C99540			04/11/08 13:41		
Aluminum	0.904	mg/L	0.10	86	70	130	1.5	20	
Barium	0.974	mg/L	0.10	86	70	130	0.1	20	
Boron	0.902	mg/L	0.10	87	70	130	1.5	20	
Calcium	125	mg/L	0.50	82	70	130	0.6	20	
Chromium	0.881	mg/L	0.050	86	70	130	0.7	20	
Copper	0.859	mg/L	0.010	83	70	130	0.5	20	
Iron	0.957	mg/L	0.030	87	70	130	1.3	20	
Magnesium	66.6	mg/L	0.50	88	70	130	0.8	20	
Manganese	0.929	mg/L	0.010	86	70	130	0.9	20	
Molybdenum	0.935	mg/L	0.10	92	70	130	3.6	20	
Potassium	46.5	mg/L	0.50	88	70	130	1.3	20	
Sodium	60.4	mg/L	0.50	89	70	130	1.4	20	
Vanadium	0.925	mg/L	0.10	91	70	130	1.0	20	
Zinc	0.913	mg/L	0.010	90	70	130	1.0	20	
Sample ID: R08030315-001C	Sample Matrix Spike			Run: SUB-C99540			04/11/08 12:38		
Aluminum	1.72	mg/L	0.10	84	70	130			
Barium	1.76	mg/L	0.10	87	70	130			
Boron	1.82	mg/L	0.10	86	70	130			
Chromium	1.73	mg/L	0.050	85	70	130			
Copper	1.68	mg/L	0.011	82	70	130			
Iron	1.75	mg/L	0.030	85	70	130			
Manganese	1.86	mg/L	0.010	84	70	130			
Molybdenum	1.87	mg/L	0.10	90	70	130			
Vanadium	1.83	mg/L	0.10	90	70	130			
Zinc	1.82	mg/L	0.010	89	70	130			
Calcium	180	mg/L	1.0	87	70	130			
Magnesium	126	mg/L	1.0	89	70	130			
Potassium	101	mg/L	1.0	87	70	130			
Silica	10.1	mg/L	0.12	98	70	130			
Sodium	246	mg/L	1.0	80	70	130			
Sample ID: R08030315-001C	Sample Matrix Spike Duplicate			Run: SUB-C99540			04/11/08 12:41		
Aluminum	1.73	mg/L	0.10	85	70	130	0.7	20	
Barium	1.77	mg/L	0.10	87	70	130	0.6	20	
Boron	1.84	mg/L	0.10	87	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99540		
Sample ID: R08030315-001C	Sample Matrix Spike Duplicate			Run: SUB-C99540			04/11/08 12:41		
Chromium	1.75	mg/L	0.050	86	70	130	0.8	20	
Copper	1.69	mg/L	0.011	83	70	130	0.4	20	
Iron	1.78	mg/L	0.030	87	70	130	1.7	20	
Manganese	1.87	mg/L	0.010	85	70	130	0.7	20	
Molybdenum	1.88	mg/L	0.10	90	70	130	0.5	20	
Vanadium	1.84	mg/L	0.10	90	70	130	0.4	20	
Zinc	1.83	mg/L	0.010	90	70	130	0.9	20	
Calcium	181	mg/L	1.0	87	70	130	0.5	20	
Magnesium	127	mg/L	1.0	90	70	130	0.8	20	
Potassium	102	mg/L	1.0	88	70	130	1.5	20	
Silica	10.2	mg/L	0.12	104	70	130	1.2	20	
Sodium	249	mg/L	1.0	83	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18205		
Sample ID: MB-18205	Method Blank		Run: SUB-C99595			04/15/08 01:41			
Antimony	0.0002	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	4E-05						
Copper	0.0004	mg/L	0.0002						
Lead	2E-05	mg/L							
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	0.0002						
Selenium	ND	mg/L	0.0002						
Silver	5E-05	mg/L	5E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	4E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS1-18205	Laboratory Control Sample		Run: SUB-C99595			04/15/08 01:48			
Antimony	0.0214	mg/L	0.050	106	80	120			
Arsenic	0.0225	mg/L	0.0010	102	80	120			
Beryllium	0.0207	mg/L	0.010	103	80	120			
Cadmium	0.0208	mg/L	0.010	104	80	120			
Copper	0.0206	mg/L	0.010	101	80	120			
Lead	0.0206	mg/L	0.050	103	80	120			
Molybdenum	0.0211	mg/L	0.10	106	80	120			
Nickel	0.0202	mg/L	0.050	101	80	120			
Selenium	0.104	mg/L	0.0010	104	80	120			
Silver	0.0215	mg/L	0.010	107	80	120			
Strontium	0.0108	mg/L	0.10	108	80	120			
Thallium	0.0182	mg/L	0.10	91	80	120			
Uranium	0.0205	mg/L	0.00030	102	80	120			
Zinc	0.0216	mg/L	0.010	102	80	120			
Sample ID: R08030315-009D	Post Digestion Spike		Run: SUB-C99595			04/15/08 03:36			
Antimony	0.0228	mg/L	0.050	102	70	130			
Arsenic	0.0424	mg/L	0.0010	96	70	130			
Beryllium	0.0189	mg/L	0.010	95	70	130			
Cadmium	0.0186	mg/L	0.010	93	70	130			
Copper	0.0215	mg/L	0.010	93	70	130			
Lead	0.0200	mg/L	0.050	99	70	130			
Molybdenum	0.328	mg/L	0.10		70	130			A
Nickel	0.0262	mg/L	0.050	95	70	130			
Selenium	0.105	mg/L	0.0010	98	70	130			
Silver	0.0189	mg/L	0.010	95	70	130			
Strontium	4.87	mg/L	0.10		70	130			A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18205		
Sample ID: R08030315-009D	Post Digestion Spike			Run: SUB-C99595			04/15/08 03:36		
Thallium	0.0180	mg/L	0.10	90	70	130			
Uranium	0.0305	mg/L	0.00030	106	70	130			
Zinc	0.0230	mg/L	0.010	76	70	130			
Sample ID: R08030315-009D	Post Digestion Spike Duplicate			Run: SUB-C99595			04/15/08 03:43		
Antimony	0.0246	mg/L	0.050	111	70	130	0.0	20	
Arsenic	0.0443	mg/L	0.0010	105	70	130	4.5	20	
Beryllium	0.0215	mg/L	0.010	107	70	130	13	20	
Cadmium	0.0199	mg/L	0.010	99	70	130	6.9	20	
Copper	0.0228	mg/L	0.010	100	70	130	6.2	20	
Lead	0.0215	mg/L	0.050	106	70	130	0.0	20	
Molybdenum	0.334	mg/L	0.10		70	130	1.6	20	A
Nickel	0.0283	mg/L	0.050	105	70	130	0.0	20	
Selenium	0.114	mg/L	0.0010	107	70	130	8.4	20	
Silver	0.0203	mg/L	0.010	101	70	130	6.8	20	
Strontium	4.94	mg/L	0.10		70	130	1.6	20	A
Thallium	0.0196	mg/L	0.10	98	70	130	0.0	20	
Uranium	0.0321	mg/L	0.00030	114	70	130	5.3	20	
Zinc	0.0248	mg/L	0.010	85	70	130	7.5	20	
Method: E200.8							Batch: C_18209		
Sample ID: MB-18209	Method Blank			Run: SUB-C99620			04/15/08 22:02		
Uranium	0.0002	mg/L	2E-05						
Sample ID: LCS1-18209	Laboratory Control Sample			Run: SUB-C99620			04/15/08 22:09		
Uranium	0.0599	mg/L	0.00030	114	80	120			
Sample ID: R08030315-009I	Post Digestion Spike			Run: SUB-C99620			04/15/08 23:37		
Uranium	0.0644	mg/L	0.00030	121	70	130			
Sample ID: R08030315-009I	Post Digestion Spike Duplicate			Run: SUB-C99620			04/15/08 23:43		
Uranium	0.0638	mg/L	0.00030	120	70	130	1.0	20	
Method: E200.8							Batch: C_18768		
Sample ID: MB-18768	Method Blank			Run: SUB-C102298			06/06/08 16:00		
Uranium	ND	mg/L	3E-05						
Sample ID: C08051073-001MMS3	Sample Matrix Spike			Run: SUB-C102298			06/06/08 18:56		
Uranium	0.557	mg/L	0.00032	110	70	130			
Sample ID: C08051073-001MMSD3	Sample Matrix Spike Duplicate			Run: SUB-C102298			06/06/08 19:23		
Uranium	0.572	mg/L	0.00032	113	70	130	2.6	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R99595		
Sample ID: LRB	Method Blank				Run: SUB-C99595		04/14/08 18:01		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.0001	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C99595		04/14/08 18:08		
Arsenic	0.0495	mg/L	0.0010	99	85	115			
Cadmium	0.0504	mg/L	0.0010	101	85	115			
Copper	0.0506	mg/L	0.0010	101	85	115			
Lead	0.0495	mg/L	0.0010	99	85	115			
Nickel	0.0498	mg/L	0.0010	100	85	115			
Silver	0.0198	mg/L	0.0010	98	85	115			
Thorium 232	0.0492	mg/L	0.0010	98	85	115			
Uranium	0.0500	mg/L	0.00030	100	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R99620		
Sample ID: LRB	Method Blank		Run: SUB-C99620			04/15/08 12:38			
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	0.0002	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Thorium 232	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C99620			04/15/08 12:44			
Arsenic	0.0526	mg/L	0.0010	105	85	115			
Cadmium	0.0524	mg/L	0.0010	105	85	115			
Copper	0.0533	mg/L	0.0010	106	85	115			
Lead	0.0528	mg/L	0.0010	106	85	115			
Mercury	0.00540	mg/L	0.0010	108	85	115			
Nickel	0.0528	mg/L	0.0010	106	85	115			
Silver	0.0204	mg/L	0.0010	102	85	115			
Thorium 232	0.0505	mg/L	0.0010	101	85	115			
Uranium	0.0514	mg/L	0.00030	103	85	115			
Sample ID: R08030315-009C	Post Digestion Spike		Run: SUB-C99620			04/16/08 02:39			
Arsenic	0.0564	mg/L	0.0010	104	70	130			
Cadmium	0.0471	mg/L	0.010	94	70	130			
Copper	0.0492	mg/L	0.010	95	70	130			
Lead	0.0509	mg/L	0.050	102	70	130			
Mercury	0.00516	mg/L	0.0010	103	70	130			
Nickel	0.0550	mg/L	0.050	94	70	130			
Thorium 232	0.0512	mg/L	0.0010	102	70	130			
Uranium	0.0658	mg/L	0.00030	101	70	130			
Sample ID: R08030315-009C	Post Digestion Spike Duplicate		Run: SUB-C99620			04/16/08 02:46			
Arsenic	0.0559	mg/L	0.0010	103	70	130	0.8	20	
Cadmium	0.0475	mg/L	0.010	95	70	130	0.9	20	
Copper	0.0488	mg/L	0.010	95	70	130	0.8	20	
Lead	0.0508	mg/L	0.050	102	70	130	0.2	20	
Mercury	0.00518	mg/L	0.0010	104	70	130	0.3	20	
Nickel	0.0549	mg/L	0.050	94	70	130	0.2	20	
Thorium 232	0.0514	mg/L	0.0010	103	70	130	0.3	20	
Uranium	0.0658	mg/L	0.00030	101	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_31868		
Sample ID: MB-31868	Method Blank					Run: SUB-C99522		04/11/08 12:57	
Mercury	ND	mg/L	5E-05						
Sample ID: B08040977-001AMS	Sample Matrix Spike					Run: SUB-C99522		04/11/08 13:09	
Mercury	0.0035	mg/L	0.0010	88	70	130			
Sample ID: B08040977-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C99522		04/11/08 13:11	
Mercury	0.0035	mg/L	0.0010	88	70	130	0.0	30	
Sample ID: LFB-31868	Laboratory Fortified Blank					Run: SUB-C99522		04/11/08 14:33	
Mercury	0.0021	mg/L	0.0010	106	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34015		
Sample ID: LFB0803310804-3	Laboratory Fortified Blank			Run: DIONEX_080331A			03/31/08 19:15		
Chloride	4.63	mg/L	0.50	93	90	110			
Fluoride	2.00	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: LFB0803310804-4	Laboratory Fortified Blank			Run: DIONEX_080331A			03/31/08 19:30		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	2.06	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: R08030322-001AMS	Sample Matrix Spike			Run: DIONEX_080331A			03/31/08 20:01		
Chloride	44.4	mg/L	0.54	69	80	120			S
Fluoride	10.5	mg/L	0.10	101	80	120			
Nitrogen, Nitrate as N	25.4	mg/L	0.13	94	80	120			
Nitrogen, Nitrite as N	11.5	mg/L	0.29	92	80	120			
Sulfate	109	mg/L	1.0	83	80	120			
Sample ID: R08030322-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080331A			03/31/08 20:16		
Chloride	43.3	mg/L	0.54	65	80	120	2.3	10	S
Fluoride	10.1	mg/L	0.10	96	80	120	4.2	10	
Nitrogen, Nitrate as N	25.0	mg/L	0.13	90	80	120	1.7	10	
Nitrogen, Nitrite as N	10.9	mg/L	0.29	87	80	120	5.1	10	
Sulfate	106	mg/L	1.0	80	80	120	2.5	10	
Sample ID: R08030315-005AMS	Sample Matrix Spike			Run: DIONEX_080331A			03/31/08 23:21		
Chloride	4.79	mg/L	0.50	96	80	120			
Fluoride	2.04	mg/L	0.10	102	80	120			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	80	120			
Nitrogen, Nitrite as N	2.46	mg/L	0.10	98	80	120			
Sulfate	13.6	mg/L	1.0	91	80	120			
Sample ID: R08030315-005AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080331A			03/31/08 23:37		
Chloride	4.78	mg/L	0.50	96	80	120	0.2	10	
Fluoride	2.04	mg/L	0.10	102	80	120	0.0	10	
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	80	120	0.4	10	
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	80	120	0.4	10	
Sulfate	13.6	mg/L	1.0	91	80	120	0.1	10	

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0423		
Sample ID: MB-GrAB-0423	Method Blank				Run: SUB-C99537			04/12/08 02:38	
Gross Alpha	1	pCi/L							
Gross Beta	6	pCi/L							
Sample ID: UNAT-GrAB-0423	Laboratory Control Sample				Run: SUB-C99537			04/12/08 02:39	
Gross Alpha	250	pCi/L	100	70	130				
Sample ID: Cs137-GrAB-0423	Laboratory Control Sample				Run: SUB-C99537			04/12/08 02:38	
Gross Beta	96	pCi/L	94	70	130				
Sample ID: R08030315-005H	Sample Matrix Spike				Run: SUB-C99537			04/12/08 02:38	
Gross Alpha	230	pCi/L	93	70	130				
Sample ID: R08030315-005H	Sample Matrix Spike Duplicate				Run: SUB-C99537			04/12/08 02:38	
Gross Alpha	250	pCi/L	104	70	130	12		14.4	
Sample ID: R08030315-005H	Sample Matrix Spike				Run: SUB-C99537			04/12/08 02:38	
Gross Beta	100	pCi/L	112	70	130				
Sample ID: R08030315-005H	Sample Matrix Spike Duplicate				Run: SUB-C99537			04/12/08 02:39	
Gross Beta	92	pCi/L	101	70	130	11		15.8	
Method: E901.1							Batch: C_R99476		
Sample ID: LCS-R99476	Laboratory Control Sample				Run: SUB-C99476			04/04/08 16:45	
Americium 241	740	pCi/L	20	91	70	130			
Cesium 137	1200	pCi/L	20	83	70	130			
Sample ID: MB-R99476	Method Blank				Run: SUB-C99476			04/04/08 16:45	
Gross Gamma	ND	pCi/L							U
Sample ID: C08040148-004HDUP	Sample Duplicate				Run: SUB-C99476			04/04/08 16:45	
Gross Gamma	580	pCi/L	20				3.1		30
Method: E903.0							Batch: C_18209		
Sample ID: R08030315-007I	Sample Matrix Spike				Run: SUB-C100023			04/22/08 12:16	
Radium 226	32	pCi/L	94	70	130				
Sample ID: R08030315-007I	Sample Matrix Spike Duplicate				Run: SUB-C100023			04/22/08 13:51	
Radium 226	27	pCi/L	79	70	130	17		21.7	
Sample ID: LCS-18209	Laboratory Control Sample				Run: SUB-C100023			04/22/08 13:51	
Radium 226	22	pCi/L	75	70	130				
Sample ID: MB-18209	Method Blank				Run: SUB-C100023			04/22/08 13:51	
Radium 226	0.7	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2718		
Sample ID: TAP WATER-MS Radium 226	Sample Matrix Spike 6.0 pCi/L			92	70	130			04/20/08 12:08
Sample ID: TAP WATER-MSD Radium 226	Sample Matrix Spike Duplicate 6.5 pCi/L			99	70	130	7.5	25.7	04/20/08 13:38
Sample ID: MB-RA226-2718 Radium 226	Method Blank -0.02 pCi/L								04/20/08 15:08 U
Sample ID: LCS-RA226-2718 Radium 226	Laboratory Control Sample 6.5 pCi/L			102	70	130			04/20/08 16:39
Method: E907.0							Batch: C_18209		
Sample ID: R08030315-0051 Thorium 230	Sample Matrix Spike 43.2 pCi/L		0.20	90	70	130			04/09/08 15:00
Sample ID: R08030315-0051 Thorium 230	Sample Matrix Spike Duplicate 39.3 pCi/L		0.20	81	70	130	9.4	30	04/09/08 15:00
Sample ID: LCS-R99592 Thorium 230	Laboratory Control Sample 48.5 pCi/L		0.20	97	70	130			04/09/08 15:00
Sample ID: MB-R99592 Thorium 230	Method Blank 0.9 pCi/L								04/09/08 15:00
Method: E907.0							Batch: C_R99556		
Sample ID: LCS-R99556 Thorium 230	Laboratory Control Sample 6.83 pCi/L		0.20	98	70	130			04/07/08 14:30
Sample ID: C08031120-001HMS Thorium 230	Sample Matrix Spike 9.88 pCi/L		0.20	97	70	130			04/07/08 14:30
Sample ID: C08031120-001HMSD Thorium 230	Sample Matrix Spike Duplicate 9.25 pCi/L		0.20	90	70	130	6.6	30	04/07/08 14:30
Sample ID: MB-R99556 Thorium 230	Method Blank ND pCi/L								04/07/08 14:30

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_18209		
Sample ID: C08031014-022BMS	Sample Matrix Spike				Run: SUB-C99887		04/10/08 09:00		
Lead 210	244	pCi/g-dry	0.10	19	70	130			S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.									
Sample ID: C08031014-022BMSD	Sample Matrix Spike Duplicate				Run: SUB-C99887		04/10/08 09:00		
Lead 210	270	pCi/g-dry	0.10	107	70	130	10	30	
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.									
Sample ID: MB-R99887	Method Blank				Run: SUB-C99887		04/10/08 09:00		
Lead 210	ND	pCi/L							
Sample ID: LCS-R99887	Laboratory Control Sample				Run: SUB-C99887		04/10/08 09:00		
Lead 210	110	pCi/L	1.0	92	70	130			
Method: E909.0M							Batch: C_R99610		
Sample ID: R08030315-003H	Sample Matrix Spike				Run: SUB-C99610		04/08/08 08:15		
Lead 210	930	pCi/L	1.0	159	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: R08030315-003H	Sample Matrix Spike Duplicate				Run: SUB-C99610		04/08/08 08:15		
Lead 210	920	pCi/L	1.0	157	70	130	0.7	30	S
Sample ID: MB-R99610	Method Blank				Run: SUB-C99610		04/08/08 08:15		
Lead 210		pCi/L							
Sample ID: LCS-R99610	Laboratory Control Sample				Run: SUB-C99610		04/08/08 08:15		
Lead 210	130	pCi/L	1.0	106	70	130			
Method: RMO-3008							Batch: C_R99661		
Sample ID: R08030315-009I	Sample Matrix Spike				Run: SUB-C99661		04/07/08 17:00		
Polonium 210	82	pCi/L	1.0	96	70	130			
Sample ID: R08030315-009I	Sample Matrix Spike Duplicate				Run: SUB-C99661		04/07/08 17:00		
Polonium 210	78	pCi/L	1.0	92	70	130	4.5	30	
Sample ID: LCS-18171	Laboratory Control Sample				Run: SUB-C99661		04/07/08 17:00		
Polonium 210	190	pCi/L	1.0	108	70	130			
Sample ID: MB-18182	Method Blank				Run: SUB-C99661		04/07/08 17:00		
Polonium 210	1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08030315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R99723		
Sample ID: R08030315-009H	Sample Matrix Spike				Run: SUB-C99723		04/03/08 14:30		
Polonium 210	90	pCi/L	1.0	103	70	130			
Sample ID: R08030315-009H	Sample Matrix Spike Duplicate				Run: SUB-C99723		04/03/08 14:30		
Polonium 210	86	pCi/L	1.0	98	70	130	5.0	30	
Sample ID: LCS-R99723	Laboratory Control Sample				Run: SUB-C99723		04/03/08 14:30		
Polonium 210	98	pCi/L	1.0	111	70	130			
Sample ID: MB-R99723	Method Blank				Run: SUB-C99723		04/03/08 14:30		
Polonium 210	0.9	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

Company Name: RESPEC Project Name, PWS, Permit, Etc.: Dew Burd Power Tech EPAS/State Compliance: Yes No

Report Mark Address: RESPEC Contact Name: Cory Foreman Phone/Fax: 731/0810533 Sampler: (Please Print) Eric Kanitz

Invoice Address: RESPEC Invoice Contact & Phone: 11 Purchase Order: _____ Quote/Bottle Order: _____

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA EDD/EDT (Electronic Data) On Ice No

GSA POTW/WWTP State: _____ LEVEL IV NELAC Receipt Temp: 4.4 °C

Other: _____ CUSTODY SEAL Y N Intact Y N Signature Match Y N

Number of Containers: _____ Sample Type: AWS VBO Air/Water Soils/Solids Other Vegetation Plassay Other

ANALYSIS REQUESTED: Heavy Metals

SEE ATTACHED: _____

Normal Turnaround (TAT): _____

CONTACT ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments: All GW

Shipped by: _____ Cooler ID/lot: _____

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Received by (print):	Date/Time:	Signature:
¹ Dew Burd GW 694	03/30/08	10:11	W	<u>Cory Foreman</u>	3/31/08	<u>Cory Foreman</u>
² Dew Burd GW 698	03/30/08	14:04	W			
³ Dew Burd GW 698	03/30/08	14:10	W			
⁴ Dew Burd GW 16	03/30/08	15:19	W			
⁵ Dew Burd BLK 01	03/30/08	15:10	W			
⁶ Dew Burd GW 675	03/30/08	16:36	W			
⁷ Dew Burd GW 689	03/30/08	17:25	W			
⁸ Dew Burd GW 681	03/30/08	17:50	W			
⁹ Dew Burd GW 700	03/30/08	18:45	W			
¹⁰						

Custody Record MUST be Signed

Received by Laboratory: Linda Larson Date/Time: 3/31/08 10:53 AM Signature: [Signature]

Received by Client: _____ Date/Time: _____ Signature: _____

Sample Disposal: _____ Return to Client: _____ Lab Disposal: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

June 24, 2008

RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R08040002 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. Rapid City SD received the following 3 samples for RESPEC Inc on 4/1/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08040002-001	DewBurd GW696	03/31/08 13:41	04/01/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08040002-002	DewBurd GW680	03/31/08 15:15	04/01/08	Aqueous	Same As Above
R08040002-003	DewBurd GW695	03/31/08 16:31	04/01/08	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2011.05.11 10:52:51 -06:00



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08040002

Report Date: 06/24/08

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Sample 697 should be 695 per Eric Krantz 6/27/2008

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Project: Edgemont

Lab ID: R08040002-001

Client Sample ID: DewBurd GW696

Report Date: 06/24/08

Collection Date: 03/31/08 13:41

Date Received: 04/01/08

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	184	mg/L		5		1	A2320 B 04/01/08 13:59/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 04/01/08 13:59/mb
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B 04/01/08 13:59/mb
Calcium	28.0	mg/L		0.5		1	E200.7 04/14/08 13:04/eli-c
Chloride	15	mg/L		1		1	E300.0 04/02/08 18:26/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 04/02/08 18:26/jmh
Magnesium	10.0	mg/L		0.5		1	E200.7 04/14/08 13:04/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G 04/04/08 10:42/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 04/02/08 18:26/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 04/02/08 18:26/jmh
Potassium	9.7	mg/L		0.5		1	E200.7 04/14/08 13:04/eli-c
Silica	8.1	mg/L		0.5		1	E200.7 04/14/08 13:04/eli-c
Sodium	270	mg/L		0.5		1	E200.7 04/14/08 13:04/eli-c
Sulfate	475	mg/L	D	3		50	E300.0 04/02/08 17:40/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1440	umhos/cm		5.0		1	A2510 B 04/05/08 14:38/jmh
Oxidation-Reduction Potential	170	mV				1	A2580 B 04/04/08 00:00/jmh
pH	8.71	s.u.		0.01		1	A4500-H B 04/05/08 14:20/jmh
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation 06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5		1	A2540 C 04/07/08 08:40/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.7 04/14/08 13:04/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 04/18/08 17:41/eli-c
Barium	ND	mg/L		0.1		1	E200.7 04/14/08 13:04/eli-c
Boron	ND	mg/L		0.1		1	E200.7 04/14/08 13:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 04/18/08 17:41/eli-c
Chromium	ND	mg/L		0.05		1	E200.7 04/14/08 13:04/eli-c
Copper	ND	mg/L		0.01		1	E200.7 04/14/08 13:04/eli-c
Iron	ND	mg/L		0.03		1	E200.7 04/14/08 13:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8 04/18/08 17:41/eli-c
Manganese	0.05	mg/L		0.01		1	E200.7 04/14/08 13:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 04/18/08 17:41/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7 04/14/08 13:04/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 04/18/08 17:41/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 04/07/08 12:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/18/08 17:41/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 04/18/08 17:41/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-001
Client Sample ID: DewBurd GW696

Report Date: 06/24/08
Collection Date: 03/31/08 13:41
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/18/08 17:41/eli-c
Vanadium	ND	mg/L		0.1		1	E200.7	04/14/08 13:04/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	04/14/08 13:04/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/17/08 14:02/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/07/08 10:25/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	3.9	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Alpha MDC	3.9	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Beta	-2.1	pCi/L	U			1	E900.0	04/16/08 20:36/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Beta MDC	4.2	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Lead 210	-11.2	pCi/L	U	1.0		1	E909.0M	04/11/08 09:45/eli-c
Lead 210 precision (±)	1.9	pCi/L				1	E909.0M	04/11/08 09:45/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1	RMO-3008	04/08/08 12:00/eli-c
Polonium 210 precision (±)	0.7	pCi/L				1	RMO-3008	04/08/08 12:00/eli-c
Radium 226	1.0	pCi/L				1	E903.0	04/23/08 02:27/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	04/23/08 02:27/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	04/23/08 02:27/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	04/10/08 11:00/eli-c
Polonium 210	0.5	pCi/L		1.0		1	RMO-3008	04/29/08 15:30/eli-c
Polonium 210 precision (±)	0.4	pCi/L				1	RMO-3008	04/29/08 15:30/eli-c
Radium 226	0.6	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	04/09/08 16:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/09/08 16:00/eli-c
RADIONUCLIDES - TOTAL								

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-001
Client Sample ID: DewBurd GW696

Report Date: 06/24/08
Collection Date: 03/31/08 13:41
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - TOTAL									
Radon 222	190	pCi/L		100			1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	63.4	pCi/L					1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	04/17/08 00:00/eli-c
Arsenic	0.003	mg/L		0.001			1	E200.8	04/17/08 00:00/eli-c
Barium	ND	mg/L		0.1			2	E200.7	04/14/08 17:03/eli-c
Beryllium	ND	mg/L		0.001			2	E200.7	04/14/08 17:03/eli-c
Boron	ND	mg/L		0.1			2	E200.7	04/14/08 17:03/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/17/08 00:00/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	04/14/08 17:03/eli-c
Copper	ND	mg/L		0.01			1	E200.8	04/17/08 00:00/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	04/14/08 17:03/eli-c
Lead	ND	mg/L		0.001			1	E200.8	04/17/08 00:00/eli-c
Manganese	0.05	mg/L		0.01			2	E200.7	04/14/08 17:03/eli-c
Mercury	ND	mg/L		0.0001			1	E200.8	04/17/08 00:00/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	04/11/08 14:07/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	04/17/08 00:00/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	04/14/08 17:03/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	04/17/08 00:00/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/17/08 00:00/eli-c
Strontium	0.7	mg/L		0.1			1	E200.8	04/17/08 00:00/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	04/17/08 00:00/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	04/17/08 00:00/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	04/17/08 00:00/eli-c
DATA QUALITY									
A/C Balance (± 5)	0.930						1	A1030 E	06/17/08 00:00/ADM
Anions	14.0	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	14.3	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	941	mg/L					1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.940						1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-001
Client Sample ID: DewBurd GW696

Report Date: 06/24/08
Collection Date: 03/31/08 13:41
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	184	mg/L		5		1	A2320 B	04/01/08 13:59/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/01/08 13:59/mb
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B	04/01/08 13:59/mb
Calcium	28.0	mg/L		0.5		1	E200.7	04/14/08 13:04/eli-c
Chloride	15	mg/L		1		1	E300.0	04/02/08 18:26/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	04/02/08 18:26/jmh
Magnesium	10.0	mg/L		0.5		1	E200.7	04/14/08 13:04/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	04/04/08 10:42/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/02/08 18:26/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	04/02/08 18:26/jmh
Potassium	9.7	mg/L		0.5		1	E200.7	04/14/08 13:04/eli-c
Silica	8.1	mg/L		0.5		1	E200.7	04/14/08 13:04/eli-c
Sodium	270	mg/L		0.5		1	E200.7	04/14/08 13:04/eli-c
Sulfate	475	mg/L	D	3		50	E300.0	04/02/08 17:40/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1440	umhos/cm		5.0		1	A2510 B	04/05/08 14:38/jmh
Oxidation-Reduction Potential	170	mV				1	A2580 B	04/04/08 00:00/jmh
pH	8.71	s.u.		0.01		1	A4500-H B	04/05/08 14:20/jmh
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5		1	A2540 C	04/07/08 08:40/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	04/14/08 13:04/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/18/08 17:41/eli-c
Barium	ND	mg/L		0.1		1	E200.7	04/14/08 13:04/eli-c
Boron	ND	mg/L		0.1		1	E200.7	04/14/08 13:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/18/08 17:41/eli-c
Chromium	ND	mg/L		0.05		1	E200.7	04/14/08 13:04/eli-c
Copper	ND	mg/L		0.01		1	E200.7	04/14/08 13:04/eli-c
Iron	ND	mg/L		0.03		1	E200.7	04/14/08 13:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/18/08 17:41/eli-c
Manganese	0.05	mg/L		0.01		1	E200.7	04/14/08 13:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/18/08 17:41/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	04/14/08 13:04/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/18/08 17:41/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/07/08 12:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/18/08 17:41/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/18/08 17:41/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-001
Client Sample ID: DewBurd GW696

Report Date: 06/24/08
Collection Date: 03/31/08 13:41
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	04/18/08 17:41/eli-c
Vanadium	ND	mg/L		0.1		1 E200.7	04/14/08 13:04/eli-c
Zinc	ND	mg/L		0.01		1 E200.7	04/14/08 13:04/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	04/17/08 14:02/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	04/07/08 10:25/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	3.9	pCi/L				1 E900.0	04/16/08 20:36/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1 E900.0	04/16/08 20:36/eli-c
Gross Alpha MDC	3.9	pCi/L				1 E900.0	04/16/08 20:36/eli-c
Gross Beta	-2.1	pCi/L	U			1 E900.0	04/16/08 20:36/eli-c
Gross Beta precision (±)	2.4	pCi/L				1 E900.0	04/16/08 20:36/eli-c
Gross Beta MDC	4.2	pCi/L				1 E900.0	04/16/08 20:36/eli-c
Lead 210	-11.2	pCi/L	U	1.0		1 E909.0M	04/11/08 09:45/eli-c
Lead 210 precision (±)	1.9	pCi/L				1 E909.0M	04/11/08 09:45/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1 RMO-3008	04/08/08 12:00/eli-c
Polonium 210 precision (±)	0.7	pCi/L				1 RMO-3008	04/08/08 12:00/eli-c
Radium 226	1.0	pCi/L				1 E903.0	04/23/08 02:27/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	04/23/08 02:27/eli-c
Radium 226 MDC	0.1	pCi/L				1 E903.0	04/23/08 02:27/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	0.0	pCi/L	U	1.0		1 E909.0M	04/10/08 11:00/eli-c
Polonium 210	0.5	pCi/L		1.0		1 RMO-3008	04/29/08 15:30/eli-c
Polonium 210 precision (±)	0.4	pCi/L				1 RMO-3008	04/29/08 15:30/eli-c
Radium 226	0.6	pCi/L				1 E903.0	04/21/08 14:47/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	04/21/08 14:47/eli-c
Radium 226 MDC	0.2	pCi/L				1 E903.0	04/21/08 14:47/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1 E907.0	04/09/08 16:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	04/09/08 16:00/eli-c
RADIONUCLIDES - TOTAL							

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-001
Client Sample ID: DewBurd GW696

Report Date: 06/24/08
Collection Date: 03/31/08 13:41
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
RADIONUCLIDES - TOTAL								
Radon 222	190	pCi/L		100		1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	63.4	pCi/L				1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	04/17/08 00:00/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	04/17/08 00:00/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/14/08 17:03/eli-c
Beryllium	ND	mg/L		0.001		2	E200.7	04/14/08 17:03/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/14/08 17:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/17/08 00:00/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/14/08 17:03/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/17/08 00:00/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	04/14/08 17:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/17/08 00:00/eli-c
Manganese	0.05	mg/L		0.01		2	E200.7	04/14/08 17:03/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8	04/17/08 00:00/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	04/11/08 14:07/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/17/08 00:00/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	04/14/08 17:03/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	04/17/08 00:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/17/08 00:00/eli-c
Strontium	0.7	mg/L		0.1		1	E200.8	04/17/08 00:00/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	04/17/08 00:00/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/17/08 00:00/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/17/08 00:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.930					1	A1030 E	06/17/08 00:00/ADM
Anions	14.0	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	14.3	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	941	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.940					1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-002
Client Sample ID: DewBurd GW680

Report Date: 06/24/08
Collection Date: 03/31/08 15:15
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	264	mg/L		5		1	A2320 B	04/01/08 14:21/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/01/08 14:21/mb
Bicarbonate as HCO3	322	mg/L		5		1	A2320 B	04/01/08 14:21/mb
Calcium	353	mg/L		0.5		1	E200.7	04/14/08 13:14/eli-c
Chloride	15	mg/L		1		1	E300.0	04/02/08 18:57/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	04/02/08 18:57/jmh
Magnesium	111	mg/L		0.5		1	E200.7	04/14/08 13:14/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/04/08 10:43/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/02/08 18:57/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	04/02/08 18:57/jmh
Potassium	19.1	mg/L		0.5		1	E200.7	04/14/08 13:14/eli-c
Silica	8.2	mg/L		0.5		1	E200.7	04/14/08 13:14/eli-c
Sodium	120	mg/L		0.5		1	E200.7	04/14/08 13:14/eli-c
Sulfate	1280	mg/L	D	3		50	E300.0	04/02/08 18:42/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2560	umhos/cm		5.0		1	A2510 B	04/05/08 14:39/jmh
Oxidation-Reduction Potential	180	mV				1	A2580 B	04/04/08 00:00/jmh
pH	7.31	s.u.		0.01		1	A4500-H B	04/05/08 14:22/jmh
Sodium Adsorption Ratio (SAR)	1.4	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	04/07/08 08:40/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	04/14/08 13:14/eli-c
Arsenic	0.008	mg/L		0.001		1	E200.8	04/18/08 17:48/eli-c
Barium	ND	mg/L		0.1		1	E200.7	04/14/08 13:14/eli-c
Boron	0.1	mg/L		0.1		1	E200.7	04/14/08 13:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/18/08 17:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.7	04/14/08 13:14/eli-c
Copper	ND	mg/L		0.01		1	E200.7	04/14/08 13:14/eli-c
Iron	0.27	mg/L		0.03		1	E200.7	04/14/08 13:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/18/08 17:48/eli-c
Manganese	0.40	mg/L		0.01		1	E200.7	04/14/08 13:14/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/18/08 17:48/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	04/14/08 13:14/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/18/08 17:48/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/07/08 12:56/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/18/08 17:48/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/18/08 17:48/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-002
Client Sample ID: DewBurd GW680

Report Date: 06/24/08
Collection Date: 03/31/08 15:15
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0569	mg/L		0.0003		1	E200.8	04/18/08 17:48/eli-c
Vanadium	ND	mg/L		0.1		1	E200.7	04/14/08 13:14/eli-c
Zinc	0.02	mg/L		0.01		1	E200.7	04/14/08 13:14/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/17/08 14:06/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/07/08 10:27/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6440	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Alpha precision (±)	79.7	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Alpha MDC	8.6	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Beta	2320	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Beta precision (±)	22.9	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Beta MDC	9.7	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	04/11/08 09:45/eli-c
Lead 210 precision (±)	2.1	pCi/L				1	E909.0M	04/11/08 09:45/eli-c
Polonium 210	1.5	pCi/L		1.0		1	RMO-3008	04/08/08 12:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	04/08/08 12:00/eli-c
Radium 226	1150	pCi/L				1	E903.0	04/23/08 04:05/eli-c
Radium 226 precision (±)	4.9	pCi/L				1	E903.0	04/23/08 04:05/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	04/23/08 04:05/eli-c
Gross Gamma	150	pCi/L		20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	73	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2.0	pCi/L	U	1.0		1	E909.0M	04/10/08 11:00/eli-c
Polonium 210	0.5	pCi/L		1.0		1	RMO-3008	04/29/08 15:30/eli-c
Polonium 210 precision (±)	0.5	pCi/L				1	RMO-3008	04/29/08 15:30/eli-c
Radium 226	1.9	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	04/09/08 16:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/09/08 16:00/eli-c
RADIONUCLIDES - TOTAL								

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-002
Client Sample ID: DewBurd GW680

Report Date: 06/24/08
Collection Date: 03/31/08 15:15
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - TOTAL								
Radon 222	71800	pCi/L		100			D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	351	pCi/L					D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	04/17/08 00:07/eli-c
Arsenic	0.009	mg/L		0.001		1	E200.8	04/17/08 00:07/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/14/08 17:07/eli-c
Beryllium	ND	mg/L		0.001		2	E200.7	04/14/08 17:07/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	04/14/08 17:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/17/08 00:07/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/14/08 17:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/17/08 00:07/eli-c
Iron	0.30	mg/L		0.03		2	E200.7	04/14/08 17:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/17/08 00:07/eli-c
Manganese	0.43	mg/L		0.01		2	E200.7	04/14/08 17:07/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8	04/17/08 00:07/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	04/11/08 14:09/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/17/08 00:07/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	04/14/08 17:07/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	04/17/08 00:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/17/08 00:07/eli-c
Strontium	7.3	mg/L		0.1		1	E200.8	04/17/08 00:07/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	04/17/08 00:07/eli-c
Uranium	0.0541	mg/L		0.0003		1	E200.8	04/17/08 00:07/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8	04/17/08 00:07/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.260					1	A1030 E	06/17/08 00:00/ADM
Anions	32.4	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	32.5	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	2080	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.05					1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-002
Client Sample ID: DewBurd GW680

Report Date: 06/24/08
Collection Date: 03/31/08 15:15
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	264	mg/L		5		1	A2320 B 04/01/08 14:21/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 04/01/08 14:21/mb
Bicarbonate as HCO3	322	mg/L		5		1	A2320 B 04/01/08 14:21/mb
Calcium	353	mg/L		0.5		1	E200.7 04/14/08 13:14/eli-c
Chloride	15	mg/L		1		1	E300.0 04/02/08 18:57/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 04/02/08 18:57/jmh
Magnesium	111	mg/L		0.5		1	E200.7 04/14/08 13:14/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 04/04/08 10:43/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 04/02/08 18:57/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 04/02/08 18:57/jmh
Potassium	19.1	mg/L		0.5		1	E200.7 04/14/08 13:14/eli-c
Silica	8.2	mg/L		0.5		1	E200.7 04/14/08 13:14/eli-c
Sodium	120	mg/L		0.5		1	E200.7 04/14/08 13:14/eli-c
Sulfate	1280	mg/L	D	3		50	E300.0 04/02/08 18:42/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2560	umhos/cm		5.0		1	A2510 B 04/05/08 14:39/jmh
Oxidation-Reduction Potential	180	mV				1	A2580 B 04/04/08 00:00/jmh
pH	7.31	s.u.		0.01		1	A4500-H B 04/05/08 14:22/jmh
Sodium Adsorption Ratio (SAR)	1.4	unitless		0.10		1	Calculation 06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C 04/07/08 08:40/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.7 04/14/08 13:14/eli-c
Arsenic	0.008	mg/L		0.001		1	E200.8 04/18/08 17:48/eli-c
Barium	ND	mg/L		0.1		1	E200.7 04/14/08 13:14/eli-c
Boron	0.1	mg/L		0.1		1	E200.7 04/14/08 13:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 04/18/08 17:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.7 04/14/08 13:14/eli-c
Copper	ND	mg/L		0.01		1	E200.7 04/14/08 13:14/eli-c
Iron	0.27	mg/L		0.03		1	E200.7 04/14/08 13:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8 04/18/08 17:48/eli-c
Manganese	0.40	mg/L		0.01		1	E200.7 04/14/08 13:14/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 04/18/08 17:48/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7 04/14/08 13:14/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 04/18/08 17:48/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 04/07/08 12:56/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/18/08 17:48/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 04/18/08 17:48/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-002
Client Sample ID: DewBurd GW680

Report Date: 06/24/08
Collection Date: 03/31/08 15:15
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0569	mg/L		0.0003		1	E200.8	04/18/08 17:48/eli-c
Vanadium	ND	mg/L		0.1		1	E200.7	04/14/08 13:14/eli-c
Zinc	0.02	mg/L		0.01		1	E200.7	04/14/08 13:14/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/17/08 14:06/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/07/08 10:27/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6440	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Alpha precision (±)	79.7	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Alpha MDC	8.6	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Beta	2320	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Beta precision (±)	22.9	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Beta MDC	9.7	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	04/11/08 09:45/eli-c
Lead 210 precision (±)	2.1	pCi/L				1	E909.0M	04/11/08 09:45/eli-c
Polonium 210	1.5	pCi/L		1.0		1	RMO-3008	04/08/08 12:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	04/08/08 12:00/eli-c
Radium 226	1150	pCi/L				1	E903.0	04/23/08 04:05/eli-c
Radium 226 precision (±)	4.9	pCi/L				1	E903.0	04/23/08 04:05/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	04/23/08 04:05/eli-c
Gross Gamma	150	pCi/L		20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	73	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2.0	pCi/L	U	1.0		1	E909.0M	04/10/08 11:00/eli-c
Polonium 210	0.5	pCi/L		1.0		1	RMO-3008	04/29/08 15:30/eli-c
Polonium 210 precision (±)	0.5	pCi/L				1	RMO-3008	04/29/08 15:30/eli-c
Radium 226	1.9	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	04/09/08 16:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/09/08 16:00/eli-c
RADIONUCLIDES - TOTAL								

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-002
Client Sample ID: DewBurd GW680

Report Date: 06/24/08
Collection Date: 03/31/08 15:15
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - TOTAL							
Radon 222	71800	pCi/L		100		1	D5072-92 04/03/08 18:27/eli-c
Radon 222 precision (±)	351	pCi/L				1	D5072-92 04/03/08 18:27/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1	E200.8 04/17/08 00:07/eli-c
Arsenic	0.009	mg/L		0.001		1	E200.8 04/17/08 00:07/eli-c
Barium	ND	mg/L		0.1		2	E200.7 04/14/08 17:07/eli-c
Beryllium	ND	mg/L		0.001		2	E200.7 04/14/08 17:07/eli-c
Boron	0.1	mg/L		0.1		2	E200.7 04/14/08 17:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 04/17/08 00:07/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 04/14/08 17:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8 04/17/08 00:07/eli-c
Iron	0.30	mg/L		0.03		2	E200.7 04/14/08 17:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8 04/17/08 00:07/eli-c
Manganese	0.43	mg/L		0.01		2	E200.7 04/14/08 17:07/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8 04/17/08 00:07/eli-c
Mercury	ND	mg/L		0.001		1	E245.1 04/11/08 14:09/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8 04/17/08 00:07/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 04/14/08 17:07/eli-c
Selenium	ND	mg/L		0.001		1	E200.8 04/17/08 00:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/17/08 00:07/eli-c
Strontium	7.3	mg/L		0.1		1	E200.8 04/17/08 00:07/eli-c
Thallium	ND	mg/L		0.001		1	E200.8 04/17/08 00:07/eli-c
Uranium	0.0541	mg/L		0.0003		1	E200.8 04/17/08 00:07/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8 04/17/08 00:07/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.260					1	A1030 E 06/17/08 00:00/ADM
Anions	32.4	meq/L				1	A1030 E 06/17/08 00:00/ADM
Cations	32.5	meq/L				1	A1030 E 06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	2080	mg/L				1	A1030 E 06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.05					1	A1030 E 06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-003
Client Sample ID: DewBurd GW695

Report Date: 06/24/08
Collection Date: 03/31/08 16:31
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	176	mg/L		5		A2320 B	04/01/08 14:26/mb
Carbonate as CO3	ND	mg/L		5		A2320 B	04/01/08 14:26/mb
Bicarbonate as HCO3	215	mg/L		5		A2320 B	04/01/08 14:26/mb
Calcium	48.0	mg/L		0.5		E200.7	04/14/08 13:30/eli-c
Chloride	14	mg/L		1		E300.0	04/04/08 18:38/jmh
Fluoride	0.4	mg/L		0.1		E300.0	04/04/08 18:38/jmh
Magnesium	17.8	mg/L		0.5		E200.7	04/14/08 13:30/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		A4500-NH3 G	04/04/08 10:45/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		E300.0	04/04/08 18:38/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		E300.0	04/04/08 18:38/jmh
Potassium	8.7	mg/L		0.5		E200.7	04/14/08 13:30/eli-c
Silica	7.4	mg/L		0.5		E200.7	04/14/08 13:30/eli-c
Sodium	234	mg/L		0.5		E200.7	04/14/08 13:30/eli-c
Sulfate	476	mg/L	D	3		E300.0	04/02/08 19:12/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1390	umhos/cm		5.0		A2510 B	04/05/08 14:40/jmh
Oxidation-Reduction Potential	230	mV				A2580 B	04/04/08 00:00/jmh
pH	8.16	s.u.		0.01		A4500-H B	04/05/08 14:23/jmh
Sodium Adsorption Ratio (SAR)	7.3	unitless		0.10		Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	870	mg/L		5		A2540 C	04/07/08 08:42/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/14/08 13:30/eli-c
Arsenic	ND	mg/L		0.001		E200.8	04/16/08 17:20/eli-c
Barium	ND	mg/L		0.1		E200.7	04/14/08 13:30/eli-c
Boron	ND	mg/L		0.1		E200.7	04/14/08 13:30/eli-c
Cadmium	ND	mg/L		0.005		E200.8	04/16/08 17:20/eli-c
Chromium	ND	mg/L		0.05		E200.7	04/14/08 13:30/eli-c
Copper	ND	mg/L		0.01		E200.7	04/14/08 13:30/eli-c
Iron	0.07	mg/L		0.03		E200.7	04/14/08 13:30/eli-c
Lead	ND	mg/L		0.001		E200.8	04/16/08 17:20/eli-c
Manganese	0.07	mg/L		0.01		E200.7	04/14/08 13:30/eli-c
Mercury	ND	mg/L		0.001		E200.8	04/16/08 17:20/eli-c
Molybdenum	ND	mg/L		0.1		E200.7	04/14/08 13:30/eli-c
Nickel	ND	mg/L		0.05		E200.8	04/16/08 17:20/eli-c
Selenium	ND	mg/L		0.001		A3114 B	04/07/08 12:58/eli-c
Silver	ND	mg/L		0.005		E200.8	04/16/08 17:20/eli-c
Thorium 232	ND	mg/L		0.005		E200.8	04/16/08 17:20/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-003
Client Sample ID: DewBurd GW695

Report Date: 06/24/08
Collection Date: 03/31/08 16:31
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0030	mg/L		0.0003		1	E200.8	04/16/08 17:20/eli-c
Vanadium	ND	mg/L		0.1		1	E200.7	04/14/08 13:30/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	04/14/08 13:30/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/17/08 14:10/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/07/08 10:29/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	52.2	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Alpha precision (±)	5.4	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Alpha MDC	4.0	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Beta	16.1	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Gross Beta MDC	3.0	pCi/L				1	E900.0	04/16/08 20:36/eli-c
Lead 210	-12.4	pCi/L	U	1.0		1	E909.0M	04/11/08 09:45/eli-c
Lead 210 precision (±)	2.0	pCi/L				1	E909.0M	04/11/08 09:45/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	04/08/08 12:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	04/08/08 12:00/eli-c
Radium 226	6.3	pCi/L				1	E903.0	04/23/08 04:05/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	04/23/08 04:05/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	04/23/08 04:05/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	04/10/08 11:00/eli-c
Polonium 210	0.6	pCi/L		1.0		1	RMO-3008	04/29/08 15:30/eli-c
Polonium 210 precision (±)	0.5	pCi/L				1	RMO-3008	04/29/08 15:30/eli-c
Radium 226	0.6	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	04/09/08 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/09/08 16:00/eli-c
RADIONUCLIDES - TOTAL								

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040002-003
Client Sample ID: DewBurd GW695

Report Date: 06/24/08
Collection Date: 03/31/08 16:31
Date Received: 04/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - TOTAL							
Radon 222	1400	pCi/L		100		1	D5072-92 04/03/08 18:27/eli-c
Radon 222 precision (±)	76.5	pCi/L				1	D5072-92 04/03/08 18:27/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1	E200.8 04/17/08 00:13/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 04/17/08 00:13/eli-c
Barium	ND	mg/L		0.1		2	E200.7 04/14/08 17:19/eli-c
Beryllium	ND	mg/L		0.005		1	E200.8 04/17/08 00:13/eli-c
Boron	ND	mg/L		0.1		2	E200.7 04/14/08 17:19/eli-c
Cadmium	ND	mg/L		0.001		1	E200.8 04/17/08 00:13/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 04/14/08 17:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8 04/17/08 00:13/eli-c
Iron	0.11	mg/L		0.03		2	E200.7 04/14/08 17:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8 04/17/08 00:13/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7 04/14/08 17:19/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8 04/17/08 00:13/eli-c
Mercury	ND	mg/L		0.001		1	E245.1 04/11/08 14:11/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8 04/17/08 00:13/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 04/14/08 17:19/eli-c
Selenium	ND	mg/L		0.001		1	E200.8 04/17/08 00:13/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/17/08 00:13/eli-c
Strontium	0.9	mg/L		0.1		1	E200.8 04/17/08 00:13/eli-c
Thallium	ND	mg/L		0.001		1	E200.8 04/17/08 00:13/eli-c
Uranium	0.0031	mg/L		0.0003		1	E200.8 04/17/08 00:13/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 04/17/08 00:13/eli-c
DATA QUALITY							
A/C Balance (± 5)	1.52					1	A1030 E 06/17/08 00:00/ADM
Anions	13.9	meq/L				1	A1030 E 06/17/08 00:00/ADM
Cations	14.3	meq/L				1	A1030 E 06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	925	mg/L				1	A1030 E 06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.940					1	A1030 E 06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080401A-ALK-SEL-W		
Sample ID: LCS1_080401A	Laboratory Control Sample								
Alkalinity, Total as CaCO3	972	mg/L	5.0	97	90	110			Run: PH_COND1-R_080401A 04/01/08 12:24
Sample ID: MBLK1_080401A	Method Blank								
Alkalinity, Total as CaCO3	ND	mg/L	3						Run: PH_COND1-R_080401A 04/01/08 12:36
Sample ID: R08030315-001ADUP	Sample Duplicate								
Alkalinity, Total as CaCO3	204	mg/L	5.0				0.0	10	Run: PH_COND1-R_080401A 04/01/08 00:00
Carbonate as CO3	ND	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	249	mg/L	5.0				0.0	10	
Sample ID: R08030315-003AMS	Sample Matrix Spike								
Alkalinity, Total as CaCO3	226	mg/L	5.0	98	80	120			Run: PH_COND1-R_080401A 04/01/08 13:14

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Batch: 080405_1_COND-PROBE-W		
Sample ID: LCS1-1_080405 Conductivity @ 25 C	Laboratory Control Sample 145	umhos/cm	5.0	97	90	110			04/05/08 14:35
Sample ID: LCS2-1_080405 Conductivity @ 25 C	Laboratory Control Sample 4950	umhos/cm	5.0	99	90	110			04/05/08 14:36
Sample ID: LCS_COND-1_080405 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			04/05/08 14:36
Sample ID: MBLK-1_080405 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						04/05/08 14:37
Sample ID: R08040002-001ADUP Conductivity @ 25 C	Sample Duplicate 1450	umhos/cm	5.0				0.7	10	04/05/08 14:39

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Project: Edgemont

Report Date: 06/24/08

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080407A-SLDS-TDS-W		
Sample ID: LCS1_080407A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	2000	mg/L	5.0	102	90	110			04/07/08 08:38
Sample ID: MBLK1_080407A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						04/07/08 08:39
Sample ID: R08040002-002AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	4300	mg/L	5.0	104	80	120			04/07/08 08:41
Sample ID: R08040002-002AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	4300	mg/L	5.0	107	80	120	1.3	10	04/07/08 08:41

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Project: Edgemont

Report Date: 06/24/08

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV-3114-080407		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	6E-05						04/07/08 09:27
Sample ID: 288-54-6 Selenium-IV	Laboratory Control Sample 0.045	mg/L	0.0010	91	90	110			04/07/08 09:29
Sample ID: C08040192-002EMS Selenium-IV	Sample Matrix Spike 0.043	mg/L	0.0010	86	85	115			04/07/08 10:10
Sample ID: C08040192-002EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.045	mg/L	0.0010	90	85	115	4.7	10	04/07/08 10:12
Method: A3114 B							Batch: C_SE-3114-080407A		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05						04/07/08 12:04
Sample ID: 288-54-6 Selenium	Laboratory Control Sample 0.050	mg/L	0.0010	100	90	110			04/07/08 12:06
Sample ID: C08040192-002EMS Selenium	Sample Matrix Spike 0.050	mg/L	0.0010	99	85	115			04/07/08 12:41
Sample ID: C08040192-002EMSD Selenium	Sample Matrix Spike Duplicate 0.051	mg/L	0.0010	101	85	115	2.0	10	04/07/08 12:43

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080405_1_PH-W		
Sample ID: LCS_pH-1_080405	Laboratory Control Sample								
pH	6.94	s.u.	0.010	101	98.55	101.45			04/05/08 14:19
Sample ID: R08040002-001ADUP	Sample Duplicate								
pH	8.72	s.u.	0.010				0.1	1.25	04/05/08 14:21

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Project: Edgemont

Report Date: 06/24/08

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-04-04_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080404A			04/04/08 09:05
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			04/04/08 09:06
						Run: TECHAA2-R_080404A			04/04/08 09:08
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			04/04/08 09:08
						Run: TECHAA2-R_080404A			04/04/08 10:35
Sample ID: R08030315-005BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.22	mg/L	0.10	86	80	120			04/04/08 10:36
						Run: TECHAA2-R_080404A			04/04/08 10:36
Sample ID: R08030315-005BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.20	mg/L	0.10	81	80	120	6.2	10	
						Run: TECHAA2-R_080404A			04/04/08 10:49
Sample ID: R08040003-001CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.19	mg/L	0.10	76	80	120			S
						Run: TECHAA2-R_080404A			04/04/08 10:50
Sample ID: R08040003-001CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.18	mg/L	0.10	74	80	120	3.2	10	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92									Batch: C_R99230
Sample ID: MB-R99230 Radon 222	Method Blank -10	pCi/L							04/03/08 18:27 U
Sample ID: LCS-R99230 Radon 222	Laboratory Control Sample 298	pCi/L	100	98	70	130			04/03/08 18:27
Sample ID: R08040002-003G Radon 222	Sample Duplicate 1280	pCi/L	100				9.2	30	04/03/08 18:27

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18214		
Sample ID: MB-18214	Method Blank		Run: SUB-C99617			04/14/08 16:36			
Barium	ND	mg/L	0.004						
Boron	0.008	mg/L	0.006						
Chromium	ND	mg/L	0.003						
Iron	ND	mg/L	0.005						
Manganese	ND	mg/L	0.0008						
Nickel	ND	mg/L	0.02						
Sample ID: LCS-18214	Laboratory Control Sample		Run: SUB-C99617			04/14/08 16:39			
Barium	0.497	mg/L	0.10	99	85	115			
Boron	0.503	mg/L	0.10	101	85	115			
Chromium	0.508	mg/L	0.050	102	85	115			
Iron	0.504	mg/L	0.030	101	85	115			
Manganese	0.484	mg/L	0.010	97	85	115			
Nickel	0.474	mg/L	0.050	95	85	115			
Sample ID: C08040196-003D MS	Sample Matrix Spike		Run: SUB-C99617			04/14/08 17:23			
Barium	0.521	mg/L	0.10	100	70	130			
Boron	0.573	mg/L	0.10	100	70	130			
Chromium	0.502	mg/L	0.050	100	70	130			
Iron	0.621	mg/L	0.030	103	70	130			
Manganese	0.566	mg/L	0.010	98	70	130			
Nickel	0.459	mg/L	0.050	92	70	130			
Sample ID: C08040196-003D MSD	Sample Matrix Spike Duplicate		Run: SUB-C99617			04/14/08 17:26			
Barium	0.517	mg/L	0.10	99	70	130	0.7	20	
Boron	0.566	mg/L	0.10	99	70	130	1.3	20	
Chromium	0.501	mg/L	0.050	100	70	130	0.3	20	
Iron	0.621	mg/L	0.030	103	70	130	0.0	20	
Manganese	0.559	mg/L	0.010	96	70	130	1.2	20	
Nickel	0.481	mg/L	0.050	96	70	130	4.7	20	
Method: E200.7							Batch: C_R99617		
Sample ID: MB-080414A	Method Blank		Run: SUB-C99617			04/14/08 12:04			
Silica	ND	mg/L	0.06						
Aluminum	ND	mg/L	0.008						
Barium	ND	mg/L	0.006						
Boron	0.006	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Chromium	ND	mg/L	0.003						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0004						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7 Batch: C_R99617									
Sample ID: MB-080414A	Method Blank			Run: SUB-C99617			04/14/08 12:04		
Molybdenum	ND	mg/L	0.01						
Potassium	ND	mg/L	0.08						
Sodium	ND	mg/L	0.06						
Vanadium	ND	mg/L	0.006						
Zinc	ND	mg/L	0.004						
Sample ID: LFB-080414A	Laboratory Fortified Blank			Run: SUB-C99617			04/14/08 12:08		
Silica	0.96	mg/L	0.10	96	85	125			
Aluminum	0.92	mg/L	0.10	92	85	125			
Barium	0.93	mg/L	0.10	93	85	125			
Boron	0.95	mg/L	0.10	94	85	125			
Calcium	51	mg/L	0.50	102	85	125			
Chromium	0.95	mg/L	0.050	95	85	125			
Copper	0.89	mg/L	0.010	89	85	125			
Iron	0.93	mg/L	0.030	93	85	125			
Magnesium	50	mg/L	0.50	100	85	125			
Manganese	0.91	mg/L	0.010	91	85	125			
Molybdenum	0.99	mg/L	0.10	99	85	125			
Potassium	47	mg/L	0.50	94	85	125			
Sodium	48	mg/L	0.50	96	85	125			
Vanadium	0.97	mg/L	0.10	97	85	125			
Zinc	0.96	mg/L	0.010	96	85	125			
Sample ID: C08040196-001CMS2	Sample Matrix Spike			Run: SUB-C99617			04/14/08 13:08		
Aluminum	0.872	mg/L	0.10	86	70	130			
Barium	0.916	mg/L	0.10	89	70	130			
Boron	0.930	mg/L	0.10	86	70	130			
Chromium	0.901	mg/L	0.050	88	70	130			
Copper	0.852	mg/L	0.010	84	70	130			
Iron	0.907	mg/L	0.030	87	70	130			
Manganese	0.926	mg/L	0.010	86	70	130			
Molybdenum	0.922	mg/L	0.10	90	70	130			
Vanadium	0.938	mg/L	0.10	92	70	130			
Zinc	0.978	mg/L	0.010	96	70	130			
Calcium	74.4	mg/L	1.0	91	70	130			
Magnesium	56.4	mg/L	1.0	91	70	130			
Potassium	55.4	mg/L	1.0	90	70	130			
Silica	8.74	mg/L	0.10		70	130			A
Sodium	303	mg/L	1.0		70	130			A
Sample ID: C08040196-001CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C99617			04/14/08 13:11		
Aluminum	0.863	mg/L	0.10	85	70	130	1.1		20
Barium	0.911	mg/L	0.10	88	70	130	0.6		20
Boron	0.933	mg/L	0.10	86	70	130	0.3		20

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99617		
Sample ID: C08040196-001CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C99617			04/14/08 13:11		
Chromium	0.892	mg/L	0.050	88	70	130	0.9	20	
Copper	0.849	mg/L	0.010	83	70	130	0.4	20	
Iron	0.913	mg/L	0.030	88	70	130	0.7	20	
Manganese	0.922	mg/L	0.010	86	70	130	0.4	20	
Molybdenum	0.915	mg/L	0.10	90	70	130	0.8	20	
Vanadium	0.932	mg/L	0.10	91	70	130	0.7	20	
Zinc	0.969	mg/L	0.010	95	70	130	0.9	20	
Calcium	74.5	mg/L	1.0	91	70	130	0.1	20	
Magnesium	56.5	mg/L	1.0	91	70	130	0.2	20	
Potassium	55.9	mg/L	1.0	91	70	130	0.9	20	
Silica	8.79	mg/L	0.10		70	130	0.6	20	A
Sodium	303	mg/L	1.0		70	130	0.1	20	A
Sample ID: C08040167-001CMS2	Sample Matrix Spike			Run: SUB-C99617			04/14/08 14:01		
Aluminum	0.873	mg/L	0.10	85	70	130			
Barium	0.944	mg/L	0.10	89	70	130			
Boron	0.963	mg/L	0.10	92	70	130			
Chromium	0.919	mg/L	0.050	90	70	130			
Copper	0.843	mg/L	0.010	83	70	130			
Iron	0.973	mg/L	0.030	88	70	130			
Manganese	0.899	mg/L	0.010	86	70	130			
Molybdenum	0.941	mg/L	0.10	92	70	130			
Vanadium	0.939	mg/L	0.10	92	70	130			
Zinc	0.967	mg/L	0.010	95	70	130			
Calcium	104	mg/L	1.0	87	70	130			
Magnesium	54.3	mg/L	1.0	93	70	130			
Potassium	47.1	mg/L	1.0	88	70	130			
Silica	15.4	mg/L	0.10		70	130			A
Sodium	60.9	mg/L	1.0	89	70	130			
Sample ID: C08040167-001CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C99617			04/14/08 14:04		
Aluminum	0.875	mg/L	0.10	86	70	130	0.2	20	
Barium	0.940	mg/L	0.10	89	70	130	0.3	20	
Boron	0.970	mg/L	0.10	93	70	130	0.7	20	
Chromium	0.917	mg/L	0.050	90	70	130	0.2	20	
Copper	0.848	mg/L	0.010	83	70	130	0.6	20	
Iron	0.977	mg/L	0.030	88	70	130	0.4	20	
Manganese	0.898	mg/L	0.010	86	70	130	0.1	20	
Molybdenum	0.939	mg/L	0.10	92	70	130	0.2	20	
Vanadium	0.934	mg/L	0.10	92	70	130	0.5	20	
Zinc	0.957	mg/L	0.010	94	70	130	1.1	20	
Calcium	104	mg/L	1.0	87	70	130	0.3	20	
Magnesium	54.2	mg/L	1.0	92	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99617		
Sample ID: C08040167-001CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C99617			04/14/08 14:04		
Potassium	47.1	mg/L	1.0	88	70	130	0.0	20	
Sodium	61.0	mg/L	1.0	89	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18214		
Sample ID: MB-18214	Method Blank			Run: SUB-C99752			04/16/08 21:17		
Antimony	ND	mg/L	0.0002						
Arsenic	7E-05	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0002						
Silver	9E-05	mg/L	4E-05						
Strontium	0.00010	mg/L	8E-05						
Thallium	7E-05	mg/L	3E-05						
Uranium	0.0001	mg/L	3E-05						
Zinc	0.003	mg/L	0.0003						
Sample ID: LCS-18214	Laboratory Control Sample			Run: SUB-C99752			04/16/08 21:24		
Antimony	0.510	mg/L	0.050	102	85	115			
Arsenic	0.525	mg/L	0.0010	105	85	115			
Beryllium	0.544	mg/L	0.010	109	85	115			
Cadmium	0.522	mg/L	0.010	104	85	115			
Copper	0.513	mg/L	0.010	103	85	115			
Lead	0.514	mg/L	0.050	103	85	115			
Molybdenum	0.508	mg/L	0.10	102	85	115			
Selenium	0.528	mg/L	0.0020	106	85	115			
Silver	0.159	mg/L	0.010	79	85	115			S
Strontium	0.519	mg/L	0.10	104	85	115			
Thallium	0.511	mg/L	0.10	102	85	115			
Uranium	0.550	mg/L	0.00032	110	85	115			
Zinc	0.546	mg/L	0.010	109	85	115			
- The LCS Silver recovery was outside of the recommended acceptance range. The MS and MSD recoveries were within acceptance range, and so the batch is accepted.									
Sample ID: C08040196-003D MS4	Post Digestion Spike			Run: SUB-C99752			04/17/08 00:20		
Antimony	0.0212	mg/L	0.050	106	70	130			
Arsenic	0.0230	mg/L	0.0010	106	70	130			
Beryllium	0.0204	mg/L	0.010	102	70	130			
Cadmium	0.0196	mg/L	0.010	98	70	130			
Copper	0.0203	mg/L	0.010	97	70	130			
Lead	0.0204	mg/L	0.050	102	70	130			
Molybdenum	0.0255	mg/L	0.10	106	70	130			
Selenium	0.0971	mg/L	0.0010	97	70	130			
Silver	0.0200	mg/L	0.010	100	70	130			
Strontium	0.931	mg/L	0.10		70	130			A
Thallium	0.0196	mg/L	0.10	98	70	130			
Uranium	0.0246	mg/L	0.00030	107	70	130			
Zinc	0.0258	mg/L	0.010	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18214		
Sample ID: C08040196-003D MS4	Post Digestion Spike				Run: SUB-C99752		04/17/08 00:20		
Sample ID: C08040196-003D MSD4	Post Digestion Spike Duplicate				Run: SUB-C99752		04/17/08 00:27		
Antimony	0.0215	mg/L	0.050	107	70	130	0.0	20	
Arsenic	0.0222	mg/L	0.0010	102	70	130	3.7	20	
Beryllium	0.0204	mg/L	0.010	102	70	130	0.5	20	
Cadmium	0.0198	mg/L	0.010	99	70	130	1.0	20	
Copper	0.0200	mg/L	0.010	96	70	130	1.2	20	
Lead	0.0207	mg/L	0.050	103	70	130	0.0	20	
Molybdenum	0.0260	mg/L	0.10	108	70	130	0.0	20	
Selenium	0.0971	mg/L	0.0010	97	70	130	0.0	20	
Silver	0.0205	mg/L	0.010	102	70	130	2.5	20	
Strontium	0.941	mg/L	0.10		70	130	1.0	20	A
Thallium	0.0202	mg/L	0.10	101	70	130	0.0	20	
Uranium	0.0249	mg/L	0.00030	109	70	130	1.2	20	
Zinc	0.0254	mg/L	0.010	94	70	130	1.4	20	
Method: E200.8							Batch: C_R99752		
Sample ID: LRB	Method Blank				Run: SUB-C99752		04/16/08 13:31		
Arsenic	ND	mg/L	6E-05						
Cadmium	2E-05	mg/L	1E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Thorium 232	4E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C99752		04/16/08 13:38		
Arsenic	0.0503	mg/L	0.0010	101	85	115			
Cadmium	0.0508	mg/L	0.0010	102	85	115			
Lead	0.0511	mg/L	0.0010	102	85	115			
Mercury	0.00523	mg/L	0.0010	105	85	115			
Nickel	0.0510	mg/L	0.0010	102	85	115			
Silver	0.0202	mg/L	0.0010	101	85	115			
Thorium 232	0.0506	mg/L	0.0010	101	85	115			
Uranium	0.0512	mg/L	0.00030	102	85	115			
Sample ID: C08031017-007CMS	Sample Matrix Spike				Run: SUB-C99752		04/16/08 18:08		
Arsenic	0.223	mg/L	0.0010	89	70	130			
Cadmium	0.209	mg/L	0.010	84	70	130			
Lead	0.223	mg/L	0.050	89	70	130			
Mercury	0.0238	mg/L	0.0010	95	70	130			
Nickel	0.502	mg/L	0.050	89	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R99752		
Sample ID: C08031017-007CMS	Sample Matrix Spike			Run: SUB-C99752			04/16/08 18:08		
Silver	0.0513	mg/L	0.010	51	70	130			S
Thorium 232	0.211	mg/L	0.0010	84	70	130			
Uranium	0.601	mg/L	0.00030	93	70	130			
Sample ID: C08031017-007CMSD	Sample Matrix Spike Duplicate			Run: SUB-C99752			04/16/08 18:14		
Arsenic	0.250	mg/L	0.0010	99	70	130	11	20	
Cadmium	0.236	mg/L	0.010	94	70	130	12	20	
Lead	0.253	mg/L	0.050	101	70	130	13	20	
Mercury	0.0275	mg/L	0.0010	110	70	130	14	20	
Nickel	0.521	mg/L	0.050	96	70	130	3.6	20	
Silver	0.0686	mg/L	0.010	69	70	130	29	20	SR
Thorium 232	0.246	mg/L	0.0010	98	70	130	15	20	
Uranium	0.622	mg/L	0.00030	101	70	130	3.4	20	
Method: E200.8							Batch: C_18234		
Sample ID: MB-18234	Method Blank			Run: SUB-C99827			04/17/08 13:25		
Uranium	0.0008	mg/L	2E-05						
Sample ID: LCS1-18234	Laboratory Control Sample			Run: SUB-C99827			04/17/08 13:29		
Uranium	0.0512	mg/L	0.00030	97	80	120			
Sample ID: R08040058-0011	Post Digestion Spike			Run: SUB-C99827			04/17/08 14:18		
Uranium	0.0126	mg/L	0.00030	95	70	130			
Sample ID: R08040058-0011	Post Digestion Spike Duplicate			Run: SUB-C99827			04/17/08 14:22		
Uranium	0.0126	mg/L	0.00030	95	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R99837		
Sample ID: LRB	Method Blank			Run: SUB-C99837			04/18/08 12:51		
Arsenic	ND	mg/L	6E-05						
Cadmium	3E-05	mg/L	1E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Thorium 232	0.0001	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C99837			04/18/08 12:58		
Arsenic	0.0526	mg/L	0.0010	105	85	115			
Cadmium	0.0520	mg/L	0.0010	104	85	115			
Lead	0.0524	mg/L	0.0010	105	85	115			
Mercury	0.00529	mg/L	0.0010	106	85	115			
Nickel	0.0530	mg/L	0.0010	106	85	115			
Silver	0.0204	mg/L	0.0010	102	85	115			
Thorium 232	0.0515	mg/L	0.0010	103	85	115			
Uranium	0.0513	mg/L	0.00030	103	85	115			
Sample ID: R08040002-002C	Post Digestion Spike			Run: SUB-C99837			04/18/08 17:55		
Arsenic	0.0615	mg/L	0.0010	107	70	130			
Cadmium	0.0498	mg/L	0.010	99	70	130			
Lead	0.0501	mg/L	0.050	100	70	130			
Mercury	0.00515	mg/L	0.0010	101	70	130			
Nickel	0.0543	mg/L	0.050	95	70	130			
Silver	0.00890	mg/L	0.010	45	70	130			S
Thorium 232	0.0520	mg/L	0.0010	104	70	130			
Uranium	0.106	mg/L	0.00030	97	70	130			
Sample ID: R08040002-002C	Post Digestion Spike Duplicate			Run: SUB-C99837			04/18/08 18:01		
Arsenic	0.0598	mg/L	0.0010	104	70	130	2.8	20	
Cadmium	0.0485	mg/L	0.010	97	70	130	2.6	20	
Lead	0.0506	mg/L	0.050	101	70	130	1.0	20	
Mercury	0.00528	mg/L	0.0010	103	70	130	2.5	20	
Nickel	0.0525	mg/L	0.050	92	70	130	3.3	20	
Silver	0.00834	mg/L	0.010	42	70	130	0.0	20	S
Thorium 232	0.0523	mg/L	0.0010	104	70	130	0.5	20	
Uranium	0.106	mg/L	0.00030	99	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: C_B_31868
Sample ID: MB-31868	Method Blank								Run: SUB-C99522 04/11/08 12:57
Mercury	ND	mg/L	5E-05						
Sample ID: B08040977-001AMS	Sample Matrix Spike								Run: SUB-C99522 04/11/08 13:09
Mercury	0.0035	mg/L	0.0010	88	70	130			
Sample ID: B08040977-001AMSD	Sample Matrix Spike Duplicate								Run: SUB-C99522 04/11/08 13:11
Mercury	0.0035	mg/L	0.0010	88	70	130	0.0	30	
Sample ID: LFB-31868	Laboratory Fortified Blank								Run: SUB-C99522 04/11/08 14:33
Mercury	0.0021	mg/L	0.0010	106	85	115			
Sample ID: B08041116-007DMS	Sample Matrix Spike								Run: SUB-C99522 04/11/08 13:42
Mercury	0.0036	mg/L	0.0010	90	70	130			
Sample ID: B08041116-007DMSD	Sample Matrix Spike Duplicate								Run: SUB-C99522 04/11/08 13:45
Mercury	0.0036	mg/L	0.0010	89	70	130	1.1	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34041		
Sample ID: LFB0804024817-3	Laboratory Fortified Blank				Run: DIONEX_080402A		04/02/08 17:09		
Chloride	4.58	mg/L	0.50	92	90	110			
Fluoride	1.95	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.46	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.35	mg/L	0.10	94	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0804024817-4	Laboratory Fortified Blank				Run: DIONEX_080402A		04/02/08 17:24		
Chloride	4.72	mg/L	0.50	94	90	110			
Fluoride	2.04	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.28	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.43	mg/L	0.10	97	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R08040002-001AMS	Sample Matrix Spike				Run: DIONEX_080402A		04/02/08 17:55		
Chloride	250	mg/L	5.4	89	80	120			
Fluoride	103	mg/L	0.56	103	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120			
Sulfate	1100	mg/L	3.4	83	80	120			
Sample ID: R08040002-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080402A		04/02/08 18:11		
Chloride	245	mg/L	5.4	87	80	120	2.1	10	
Fluoride	101	mg/L	0.56	101	80	120	2.3	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	3.1	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	2.8	10	
Sulfate	1100	mg/L	3.4	83	80	120	0.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34057		
Sample ID: LFB0804043239-3	Laboratory Fortified Blank			Run: DIONEX_080404A			04/04/08 18:07		
Chloride	4.88	mg/L	0.50	98	90	110			
Fluoride	2.04	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.49	mg/L	0.10	100	90	110			
Sample ID: LFB0804043239-4	Laboratory Fortified Blank			Run: DIONEX_080404A			04/04/08 18:22		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	2.03	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.48	mg/L	0.10	99	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sample ID: R08040058-001AMS	Sample Matrix Spike			Run: DIONEX_080404A			04/04/08 19:09		
Chloride	257	mg/L	5.4	91	80	120			
Fluoride	108	mg/L	0.56	108	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	92	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sample ID: R08040058-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080404A			04/04/08 19:24		
Chloride	247	mg/L	5.4	86	80	120	4.2	10	
Fluoride	103	mg/L	0.56	103	80	120	4.7	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	4.9	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	4.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0425		
Sample ID: MB-GrAB-0425	Method Blank				Run: SUB-C99839		04/16/08 03:08		
Gross Alpha	-0.4	pCi/L							U
Gross Beta	-3	pCi/L							U
Sample ID: UNAT-GrAB-0425	Laboratory Control Sample				Run: SUB-C99839		04/16/08 03:08		
Gross Alpha	250	pCi/L	103	70	130				
Sample ID: Cs137-GrAB-0425	Laboratory Control Sample				Run: SUB-C99839		04/16/08 03:08		
Gross Beta	100	pCi/L	109	70	130				
Sample ID: C08040142-001CMS	Sample Matrix Spike				Run: SUB-C99839		04/16/08 03:08		
Gross Alpha	280	pCi/L	113	70	130				
Sample ID: C08040142-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C99839		04/16/08 03:08		
Gross Alpha	210	pCi/L	87	70	130	26	14.9		R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: C08040142-001CMS	Sample Matrix Spike				Run: SUB-C99839		04/16/08 03:08		
Gross Beta	100	pCi/L	109	70	130				
Sample ID: C08040142-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C99839		04/16/08 03:08		
Gross Beta	100	pCi/L	110	70	130	1.2	15.9		
Sample ID: R08040002-002H	Sample Duplicate				Run: SUB-C99839		04/16/08 20:36		
Gross Alpha	6200	pCi/L				3.2	12.5		
Gross Beta	2400	pCi/L				1.6	12		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

R - RPD exceeds advisory limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R99476		
Sample ID: LCS-R99476	Laboratory Control Sample					Run: SUB-C99476	04/04/08 16:45		
Americium 241	740	pCi/L	20	91	70	130			
Cesium 137	1200	pCi/L	20	83	70	130			
Sample ID: MB-R99476	Method Blank					Run: SUB-C99476	04/04/08 16:45		
Gross Gamma	ND	pCi/L							U
Sample ID: C08040148-004HDUP	Sample Duplicate					Run: SUB-C99476	04/04/08 16:45		
Gross Gamma	580	pCi/L	20				3.1	30	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040002

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18234		
Sample ID: C08040215-001AMS Radium 226	Sample Matrix Spike 120	pCi/Filter		94	70	130			04/21/08 14:47
Run: SUB-C100044									
Sample ID: C08040215-001AMSD Radium 226	Sample Matrix Spike Duplicate 113	pCi/Filter		88	70	130	5.9	21.7	04/21/08 14:47
Run: SUB-C100044									
Sample ID: LCS-18234 Radium 226	Laboratory Control Sample 11	pCi/L		76	70	130			04/21/08 16:36
Run: SUB-C100044									
Sample ID: MB-18234 Radium 226	Method Blank 2	pCi/L							04/21/08 16:36
Run: SUB-C100044									
Method: E903.0							Batch: C_RA226-2728		
Sample ID: C08040239-004BMS Radium 226	Sample Matrix Spike 6.1	pCi/L		89	70	130			04/23/08 04:05
Run: SUB-C100086									
Sample ID: C08040239-004BMSD Radium 226	Sample Matrix Spike Duplicate 5.9	pCi/L		86	70	130	3.0	22.3	04/23/08 04:05
Run: SUB-C100086									
Sample ID: MB-RA226-2728 Radium 226	Method Blank 0.3	pCi/L							04/23/08 04:06
Run: SUB-C100086									
Sample ID: LCS-RA226-2728 Radium 226	Laboratory Control Sample 6.0	pCi/L		90	70	130			04/23/08 14:56
Run: SUB-C100086									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



Chain of Custody and Analytical Request Record

Company Name: **Respec** Project Name: **Dew Burdick** EPA/State Compliance: Yes No

Report Mail Address: **LESIEC** State: **SD** Sampler: (Please Print) **Eric Krantz**

Contact Name: **Cory Foreman** Phone/Fax: Purchase Order: Quoter/Bottle Order:

Invoice Address: **LESIEC** Invoiced Contact & Phone: **Cory.foreman@respec.com** Comments: **SE Refrain Set 14 we M**

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA EDD/EDT (Electronic Data) On Ice Yes No

GSA EDD/EDT (Electronic Data) Format: Custody Seal Y N

POTW/WWTP LEVEL IV NELAC Intact Y N

State: Other: Signature Match Y N

Other: Precip Temp: **4.1** °C

Number of Containers	Sample Type: AWSVB Air Water Soils/Solids Vegetation Bioassay Other	MATRIX	Collection Date	Collection Time	Shipped by:	Cooler ID(s):	Receipt Temp	On Ice	Custody Seal	Intact	Signature Match
1	Dew Burd GW 696	W	03/31/08	13:41	SE Refrain						
2	Dew Burd GW 680	W	03/31/08	15:15	Set 14 we M						
3	Dew Burd GW 697	W	03/31/08	16:31	Set 8 Purg Test						
4					Set 7 Refrain SE						
5											
6											
7											
8											
9											
10											

Relinquished by (print): **Eric Krantz** Date/Time: **4/1/08 08:30** Signature: *[Signature]*

Relinquished by (print): **Steve Frailand** Date/Time: **4-08 8:30** Signature: *[Signature]*

Received by Laboratory: Date/Time: Signature:

Sample Disposal: Return to Client: Lab Disposal: Date/Time: Signature:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule forms.

LABORATORY USE ONLY

Custody Record MUST be Signed



ANALYTICAL SUMMARY REPORT

July 29, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08040028 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 4/2/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08040028-001	DewBurd GW615	04/01/08 14:34	04/02/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08040028-002	DewBurd GW615	04/01/08 14:42	04/02/08	Aqueous	Same As Above
R08040028-003	DewBurd GW622	04/01/08 14:56	04/02/08	Aqueous	Same As Above



R08040028-004 DewBurd BLK01

04/01/08 16:35 04/02/08

Aqueous

Metals by ICP/ICPMS, Dissolved
Metals by ICP/ICPMS, Suspended
Metals by ICP/ICPMS, Total
Alkalinity
Conductivity
Mercury, Total
Selenium, Dissolved
Selenium, Dissolved
Selenium, Dissolved
Anions by Ion Chromatography
Nitrogen, Ammonia
Oxidation Reduction Potential
pH
Digestion, Total Metals
Digestion, Total Metals
Dissolved Filtration
Digestion, Mercury by CVAA
Gross Alpha, Gross Beta
Gross Gamma, Dissolved
Lead 210, Dissolved
Lead 210, Suspended
Polonium 210, Dissolved
Polonium 210, Suspended
Radium 226, Dissolved
Radium 226, Suspended
Radon 222
Thorium, Isotopic
Thorium, Suspended Isotopic
Sodium Adsorption Ratio
Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040028-001
 Client Sample ID: DewBurd GW615

Report Date: 07/29/08
 Collection Date: 04/01/08 14:34
 Date Received: 04/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	136	mg/L		5	1	A2320 B	04/07/08 10:59/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	04/07/08 10:59/mb
Bicarbonate as HCO3	166	mg/L		5	1	A2320 B	04/07/08 10:59/mb
Calcium	70.9	mg/L		0.5	1	E200.7	04/14/08 12:51/eli-c
Chloride	6	mg/L		1	1	E300.0	04/02/08 20:45/jmh
Fluoride	0.5	mg/L		0.1	1	E300.0	04/02/08 20:45/jmh
Magnesium	21.7	mg/L		0.5	1	E200.7	04/14/08 12:51/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1	1	A4500-NH3 G	04/04/08 10:53/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	04/02/08 20:45/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	04/02/08 20:45/jmh
Potassium	8.7	mg/L		0.5	1	E200.7	04/14/08 12:51/eli-c
Silica	7.6	mg/L		0.5	1	E200.7	04/14/08 12:51/eli-c
Sodium	127	mg/L		0.5	1	E200.7	04/14/08 12:51/eli-c
Sulfate	378	mg/L	D	3	50	E300.0	04/02/08 19:59/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1050	umhos/cm		5.0	1	A2510 B	04/05/08 14:41/jmh
Oxidation-Reduction Potential	210	mV			1	A2580 B	04/04/08 00:00/jmh
pH	7.36	s.u.		0.01	1	A4500-H B	04/05/08 14:25/jmh
Sodium Adsorption Ratio (SAR)	3.4	unitless		0.10	1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	670	mg/L		5	1	A2540 C	04/07/08 08:43/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	1	E200.7	04/14/08 12:51/eli-c
Arsenic	0.020	mg/L		0.001	1	E200.8	04/28/08 20:37/eli-c
Barium	ND	mg/L		0.1	1	E200.7	04/14/08 12:51/eli-c
Boron	ND	mg/L		0.1	1	E200.7	04/14/08 12:51/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	04/28/08 20:37/eli-c
Chromium	ND	mg/L		0.05	1	E200.7	04/14/08 12:51/eli-c
Copper	ND	mg/L		0.01	1	E200.7	04/14/08 12:51/eli-c
Iron	0.70	mg/L		0.03	1	E200.7	04/14/08 12:51/eli-c
Lead	ND	mg/L		0.001	1	E200.8	04/28/08 20:37/eli-c
Manganese	0.08	mg/L		0.01	1	E200.7	04/14/08 12:51/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	04/28/08 20:37/eli-c
Molybdenum	ND	mg/L		0.1	1	E200.7	04/14/08 12:51/eli-c
Nickel	ND	mg/L		0.05	1	E200.8	04/28/08 20:37/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	04/07/08 12:36/eli-c
Silver	ND	mg/L		0.005	1	E200.8	04/28/08 20:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040028-001
 Client Sample ID: DewBurd GW615

Report Date: 07/29/08
 Collection Date: 04/01/08 14:34
 Date Received: 04/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	04/28/08 20:37/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	04/28/08 20:37/eli-c
Vanadium	ND	mg/L		0.1		1	E200.7	04/14/08 12:51/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	04/14/08 12:51/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/17/08 13:33/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/07/08 10:06/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	18.2	pCi/L				1	E900.0	04/16/08 03:08/eli-c
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	04/16/08 03:08/eli-c
Gross Alpha MDC	3.0	pCi/L				1	E900.0	04/16/08 03:08/eli-c
Gross Beta	11.6	pCi/L				1	E900.0	04/16/08 03:08/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	04/16/08 03:08/eli-c
Gross Beta MDC	3.6	pCi/L				1	E900.0	04/16/08 03:08/eli-c
Lead 210	-2.5	pCi/L	U	1.0		1	E909.0M	04/15/08 11:15/eli-c
Lead 210 precision (±)	0.8	pCi/L				1	E909.0M	04/15/08 11:15/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1	RMO-3008	04/08/08 12:00/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	04/08/08 12:00/eli-c
Radium 226	1.8	pCi/L				1	E903.0	04/23/08 02:27/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	04/23/08 02:27/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	04/23/08 02:27/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	04/11/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/11/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	27.1	pCi/L		1.0		1	E909.0M	04/10/08 11:00/eli-c
Lead 210 precision (±)	2.1	pCi/L				1	E909.0M	04/10/08 11:00/eli-c
Polonium 210	0.4	pCi/L		1.0		1	RMO-3008	04/29/08 15:30/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	04/29/08 15:30/eli-c
Radium 226	0.3	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	04/21/08 14:47/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040028-001
 Client Sample ID: DewBurd GW615

Report Date: 07/29/08
 Collection Date: 04/01/08 14:34
 Date Received: 04/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.1	pCi/L					1	E903.0	04/21/08 14:47/eli-c
Thorium 230	0.9	pCi/L		0.2			1	E907.0	04/09/08 16:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	04/09/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1490	pCi/L		100			1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	67.5	pCi/L					1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	04/16/08 23:33/eli-c
Arsenic	0.024	mg/L		0.001			1	E200.8	04/16/08 23:33/eli-c
Barium	ND	mg/L		0.1			2	E200.7	04/14/08 16:46/eli-c
Beryllium	ND	mg/L		0.001			2	E200.7	04/14/08 16:46/eli-c
Boron	ND	mg/L		0.1			2	E200.7	04/14/08 16:46/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/16/08 23:33/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	04/14/08 16:46/eli-c
Copper	ND	mg/L		0.01			1	E200.8	04/16/08 23:33/eli-c
Iron	1.35	mg/L		0.03			2	E200.7	04/14/08 16:46/eli-c
Lead	0.002	mg/L		0.001			1	E200.8	04/16/08 23:33/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	04/14/08 16:46/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	04/11/08 13:52/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	04/16/08 23:33/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	04/14/08 16:46/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	04/16/08 23:33/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/16/08 23:33/eli-c
Strontium	1.3	mg/L		0.1			1	E200.8	04/16/08 23:33/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	04/16/08 23:33/eli-c
Uranium	0.0026	mg/L		0.0003			1	E200.8	04/16/08 23:33/eli-c
Zinc	0.02	mg/L		0.01			1	E200.8	04/16/08 23:33/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.45						1	A1030 E	06/17/08 00:00/ADM
Anions	10.8	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	11.1	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	715	mg/L					1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.940						1	A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040028-002
 Client Sample ID: DewBurd GW615

Report Date: 07/29/08
 Collection Date: 04/01/08 14:42
 Date Received: 04/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B	04/07/08 11:15/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/07/08 11:15/mb
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B	04/07/08 11:15/mb
Calcium	71.1	mg/L		0.5		1	E200.7	04/14/08 12:54/eli-c
Chloride	6	mg/L		1		1	E300.0	04/02/08 21:47/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	04/02/08 21:47/jmh
Magnesium	21.9	mg/L		0.5		1	E200.7	04/14/08 12:54/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/04/08 10:54/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/02/08 21:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	04/02/08 21:47/jmh
Potassium	8.6	mg/L		0.5		1	E200.7	04/14/08 12:54/eli-c
Silica	7.6	mg/L		0.5		1	E200.7	04/14/08 12:54/eli-c
Sodium	128	mg/L		0.5		1	E200.7	04/14/08 12:54/eli-c
Sulfate	370	mg/L	D	3		50	E300.0	04/02/08 21:00/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1050	umhos/cm		5.0		1	A2510 B	04/05/08 14:42/jmh
Oxidation-Reduction Potential	210	mV				1	A2580 B	04/04/08 00:00/jmh
pH	7.34	s.u.		0.01		1	A4500-H B	04/05/08 14:26/jmh
Sodium Adsorption Ratio (SAR)	3.4	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	680	mg/L		5		1	A2540 C	04/07/08 08:43/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	04/14/08 12:54/eli-c
Arsenic	0.019	mg/L		0.001		1	E200.8	04/28/08 20:43/eli-c
Barium	ND	mg/L		0.1		1	E200.7	04/14/08 12:54/eli-c
Boron	ND	mg/L		0.1		1	E200.7	04/14/08 12:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/28/08 20:43/eli-c
Chromium	ND	mg/L		0.05		1	E200.7	04/14/08 12:54/eli-c
Copper	ND	mg/L		0.01		1	E200.7	04/14/08 12:54/eli-c
Iron	0.66	mg/L		0.03		1	E200.7	04/14/08 12:54/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/28/08 20:43/eli-c
Manganese	0.08	mg/L		0.01		1	E200.7	04/14/08 12:54/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/28/08 20:43/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	04/14/08 12:54/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/28/08 20:43/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/07/08 12:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/28/08 20:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040028-002
 Client Sample ID: DewBurd GW615

Report Date: 07/29/08
 Collection Date: 04/01/08 14:42
 Date Received: 04/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 04/28/08 20:43/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8 04/28/08 20:43/eli-c
Vanadium	ND	mg/L		0.1		1	E200.7 04/14/08 12:54/eli-c
Zinc	ND	mg/L		0.01		1	E200.7 04/14/08 12:54/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 04/17/08 13:37/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 04/07/08 10:08/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	17.7	pCi/L				1	E900.0 04/16/08 03:08/eli-c
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0 04/16/08 03:08/eli-c
Gross Alpha MDC	3.0	pCi/L				1	E900.0 04/16/08 03:08/eli-c
Gross Beta	5.8	pCi/L				1	E900.0 04/16/08 03:08/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0 04/16/08 03:08/eli-c
Gross Beta MDC	3.6	pCi/L				1	E900.0 04/16/08 03:08/eli-c
Lead 210	-13.8	pCi/L	U	1.0		1	E909.0M 04/11/08 09:45/eli-c
Lead 210 precision (±)	2.1	pCi/L				1	E909.0M 04/11/08 09:45/eli-c
Polonium 210	0.8	pCi/L	U	1.0		1	RMO-3008 04/08/08 12:00/eli-c
Polonium 210 precision (±)	0.9	pCi/L				1	RMO-3008 04/08/08 12:00/eli-c
Radium 226	2.3	pCi/L				1	E903.0 04/23/08 02:27/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 04/23/08 02:27/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0 04/23/08 02:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 04/11/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 04/11/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1 04/04/08 16:45/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	12.8	pCi/L		1.0		1	E909.0M 04/10/08 11:00/eli-c
Lead 210 precision (±)	1.5	pCi/L				1	E909.0M 04/10/08 11:00/eli-c
Polonium 210	0.9	pCi/L		1.0		1	RMO-3008 04/29/08 15:30/eli-c
Polonium 210 precision (±)	0.5	pCi/L				1	RMO-3008 04/29/08 15:30/eli-c
Radium 226	0.0	pCi/L	U			1	E903.0 04/21/08 14:47/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0 04/21/08 14:47/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040028-002
 Client Sample ID: DewBurd GW615

Report Date: 07/29/08
 Collection Date: 04/01/08 14:42
 Date Received: 04/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/21/08 14:47/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	04/09/08 16:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/09/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1250	pCi/L		100		1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	64.9	pCi/L				1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	04/16/08 23:40/eli-c
Arsenic	0.025	mg/L		0.001		1	E200.8	04/16/08 23:40/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/14/08 16:53/eli-c
Beryllium	ND	mg/L		0.001		2	E200.7	04/14/08 16:53/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/14/08 16:53/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/16/08 23:40/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/14/08 16:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/16/08 23:40/eli-c
Iron	1.40	mg/L		0.03		2	E200.7	04/14/08 16:53/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	04/16/08 23:40/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7	04/14/08 16:53/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	04/11/08 13:54/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/16/08 23:40/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	04/14/08 16:53/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	04/16/08 23:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/16/08 23:40/eli-c
Strontium	1.3	mg/L		0.1		1	E200.8	04/16/08 23:40/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	04/16/08 23:40/eli-c
Uranium	0.0025	mg/L		0.0003		1	E200.8	04/16/08 23:40/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8	04/16/08 23:40/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.22					1	A1030 E	06/17/08 00:00/ADM
Anions	10.7	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	11.2	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	710	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040028-003
Client Sample ID: DewBurd GW622

Report Date: 07/29/08
Collection Date: 04/01/08 14:56
Date Received: 04/02/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	164	mg/L		5		1	A2320 B 04/07/08 11:19/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 04/07/08 11:19/mb
Bicarbonate as HCO3	200	mg/L		5		1	A2320 B 04/07/08 11:19/mb
Calcium	11.2	mg/L		0.5		2	E200.7 06/18/08 15:35/eli-c
Chloride	12	mg/L		1		1	E300.0 04/02/08 22:17/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 04/02/08 22:17/jmh
Magnesium	7.1	mg/L		0.5		2	E200.7 06/18/08 15:35/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 04/04/08 10:55/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 04/02/08 22:17/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 04/02/08 22:17/jmh
Potassium	11.3	mg/L		0.5		1	E200.7 04/14/08 12:58/eli-c
Silica	1.2	mg/L		0.5		1	E200.7 04/14/08 12:58/eli-c
Sodium	179	mg/L		0.5		1	E200.7 04/14/08 12:58/eli-c
Sulfate	470	mg/L	D	3		50	E300.0 04/02/08 22:02/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1260	umhos/cm		5.0		1	A2510 B 04/05/08 14:43/jmh
Oxidation-Reduction Potential	200	mV				1	A2580 B 04/04/08 00:00/jmh
pH	8.15	s.u.		0.01		1	A4500-H B 04/05/08 14:27/jmh
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation 06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	800	mg/L		5		1	A2540 C 04/07/08 08:44/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.7 04/14/08 12:58/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 04/28/08 20:50/eli-c
Barium	ND	mg/L		0.1		1	E200.7 04/14/08 12:58/eli-c
Boron	ND	mg/L		0.1		1	E200.7 04/14/08 12:58/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 04/28/08 20:50/eli-c
Chromium	ND	mg/L		0.05		1	E200.7 04/14/08 12:58/eli-c
Copper	ND	mg/L		0.01		1	E200.7 04/14/08 12:58/eli-c
Iron	ND	mg/L		0.03		1	E200.7 04/14/08 12:58/eli-c
Lead	ND	mg/L		0.001		1	E200.8 04/28/08 20:50/eli-c
Manganese	0.02	mg/L		0.01		1	E200.7 04/14/08 12:58/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 04/28/08 20:50/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7 04/14/08 12:58/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 04/28/08 20:50/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 04/07/08 12:45/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/28/08 20:50/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040028-003
 Client Sample ID: DewBurd GW622

Report Date: 07/29/08
 Collection Date: 04/01/08 14:56
 Date Received: 04/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	04/28/08 20:50/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	04/28/08 20:50/eli-c
Vanadium	ND	mg/L		0.1			1	E200.7	04/14/08 12:58/eli-c
Zinc	ND	mg/L		0.01			1	E200.7	04/14/08 12:58/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	04/17/08 13:54/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/07/08 10:15/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	15.0	pCi/L					1	E900.0	04/16/08 03:08/eli-c
Gross Alpha precision (±)	3.2	pCi/L					1	E900.0	04/16/08 03:08/eli-c
Gross Alpha MDC	3.5	pCi/L					1	E900.0	04/16/08 03:08/eli-c
Gross Beta	9.2	pCi/L					1	E900.0	04/16/08 03:08/eli-c
Gross Beta precision (±)	2.6	pCi/L					1	E900.0	04/16/08 03:08/eli-c
Gross Beta MDC	4.1	pCi/L					1	E900.0	04/16/08 03:08/eli-c
Lead 210	-3.5	pCi/L	U	1.0			1	E909.0M	04/11/08 09:45/eli-c
Lead 210 precision (±)	1.1	pCi/L					1	E909.0M	04/11/08 09:45/eli-c
Polonium 210	0.8	pCi/L	U	1.0			1	RMO-3008	04/08/08 12:00/eli-c
Polonium 210 precision (±)	0.9	pCi/L					1	RMO-3008	04/08/08 12:00/eli-c
Radium 226	2.3	pCi/L					1	E903.0	04/23/08 02:27/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	04/23/08 02:27/eli-c
Radium 226 MDC	0.1	pCi/L					1	E903.0	04/23/08 02:27/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	04/11/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	04/11/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	0.0	pCi/L	U	1.0			1	E909.0M	04/10/08 11:00/eli-c
Lead 210 precision (±)	1.1	pCi/L					1	E909.0M	04/10/08 11:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	04/29/08 15:30/eli-c
Polonium 210 precision (±)	0.1	pCi/L					1	RMO-3008	04/29/08 15:30/eli-c
Radium 226	0.7	pCi/L					1	E903.0	04/21/08 14:47/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	04/21/08 14:47/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040028-003
 Client Sample ID: DewBurd GW622

Report Date: 07/29/08
 Collection Date: 04/01/08 14:56
 Date Received: 04/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.1	pCi/L					1	E903.0	04/21/08 14:47/eli-c
Thorium 230	0.2	pCi/L		0.2			1	E907.0	04/09/08 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	04/09/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	501	pCi/L		100			1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	56.4	pCi/L					1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	04/16/08 23:46/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	04/16/08 23:46/eli-c
Barium	ND	mg/L		0.1			2	E200.7	04/14/08 16:56/eli-c
Beryllium	ND	mg/L		0.001			2	E200.7	04/14/08 16:56/eli-c
Boron	ND	mg/L		0.1			2	E200.7	04/14/08 16:56/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/16/08 23:46/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	04/14/08 16:56/eli-c
Copper	ND	mg/L		0.01			1	E200.8	04/16/08 23:46/eli-c
Iron	0.96	mg/L		0.03			2	E200.7	04/14/08 16:56/eli-c
Lead	0.004	mg/L		0.001			1	E200.8	04/16/08 23:46/eli-c
Manganese	0.02	mg/L		0.01			2	E200.7	04/14/08 16:56/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	04/11/08 13:57/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	04/16/08 23:46/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	04/14/08 16:56/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	04/16/08 23:46/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/16/08 23:46/eli-c
Strontium	ND	mg/L		0.1			1	E200.8	04/16/08 23:46/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	04/16/08 23:46/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	04/16/08 23:46/eli-c
Zinc	0.03	mg/L		0.01			1	E200.8	04/16/08 23:46/eli-c
DATA QUALITY									
A/C Balance (± 5)	-18.5	%					1	A1030 E	07/02/08 00:00/jmh
Anions	13.4	meq/L					1	A1030 E	07/02/08 00:00/jmh
Cations	9.23	meq/L					1	A1030 E	07/02/08 00:00/jmh
Solids, Total Dissolved Calculated	793	mg/L					1	A1030 E	07/02/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01						1	A1030 E	07/02/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040028-004
 Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
 Collection Date: 04/01/08 16:35
 Date Received: 04/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B 04/07/08 11:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 04/07/08 11:24/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B 04/07/08 11:24/mb
Calcium	ND	mg/L		0.5		1	E200.7 04/14/08 13:01/eli-c
Chloride	ND	mg/L		1		1	E300.0 04/02/08 22:33/jmh
Fluoride	ND	mg/L		0.1		1	E300.0 04/02/08 22:33/jmh
Magnesium	ND	mg/L		0.5		1	E200.7 04/14/08 13:01/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 04/04/08 10:56/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 04/02/08 22:33/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 04/02/08 22:33/jmh
Potassium	ND	mg/L		0.5		1	E200.7 04/14/08 13:01/eli-c
Silica	ND	mg/L		0.5		1	E200.7 04/14/08 13:01/eli-c
Sodium	ND	mg/L		0.5		1	E200.7 04/14/08 13:01/eli-c
Sulfate	ND	mg/L		1		1	E300.0 04/02/08 22:33/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B 04/05/08 14:44/jmh
Oxidation-Reduction Potential	300	mV				1	A2580 B 04/04/08 00:00/jmh
pH	5.73	s.u.		0.01		1	A4500-H B 04/05/08 14:29/jmh
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation 06/17/08 00:00/ADM
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C 04/07/08 08:44/mb
- SAR calculations may not be appropriate for near blank results.							
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.7 04/14/08 13:01/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 04/22/08 15:38/eli-c
Barium	ND	mg/L		0.1		1	E200.7 04/14/08 13:01/eli-c
Boron	ND	mg/L		0.1		1	E200.7 04/14/08 13:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 04/22/08 15:38/eli-c
Chromium	ND	mg/L		0.05		1	E200.7 04/14/08 13:01/eli-c
Copper	ND	mg/L		0.01		1	E200.7 04/14/08 13:01/eli-c
Iron	ND	mg/L		0.03		1	E200.7 04/14/08 13:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8 04/22/08 15:38/eli-c
Manganese	ND	mg/L		0.01		1	E200.7 04/14/08 13:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 04/22/08 15:38/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7 04/14/08 13:01/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 04/22/08 15:38/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 04/07/08 12:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8 04/22/08 15:38/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040028-004
Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
Collection Date: 04/01/08 16:35
Date Received: 04/02/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 04/22/08 15:38/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 04/22/08 15:38/eli-c
Vanadium	ND	mg/L		0.1		1	E200.7 04/14/08 13:01/eli-c
Zinc	0.01	mg/L		0.01		1	E200.7 04/14/08 13:01/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 04/17/08 13:58/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 04/07/08 10:18/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	-0.4	pCi/L	U			1	E900.0 04/16/08 03:08/eli-c
Gross Alpha precision (±)	0.5	pCi/L				1	E900.0 04/16/08 03:08/eli-c
Gross Alpha MDC	1.0	pCi/L				1	E900.0 04/16/08 03:08/eli-c
Gross Beta	-2.7	pCi/L	U			1	E900.0 04/16/08 03:08/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0 04/16/08 03:08/eli-c
Gross Beta MDC	2.7	pCi/L				1	E900.0 04/16/08 03:08/eli-c
Lead 210	-11	pCi/L	U	1.0		1	E909.0M 04/11/08 09:45/eli-c
Lead 210 precision (±)	1.9	pCi/L				1	E909.0M 04/11/08 09:45/eli-c
Polonium 210	1.0	pCi/L		1.0		1	RMO-3008 04/08/08 12:00/eli-c
Polonium 210 precision (±)	0.8	pCi/L				1	RMO-3008 04/08/08 12:00/eli-c
Radium 226	0.2	pCi/L				1	E903.0 04/23/08 02:27/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0 04/23/08 02:27/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0 04/23/08 02:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 04/11/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 04/11/08 15:30/eli-c
Gross Gamma	0.0	pCi/L		20		1	E901.1 04/04/08 16:45/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 04/04/08 16:45/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M 04/10/08 11:00/eli-c
Lead 210 precision (±)	0.8	pCi/L				1	E909.0M 04/10/08 11:00/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008 04/29/08 15:30/eli-c
Polonium 210 precision (±)	0.3	pCi/L				1	RMO-3008 04/29/08 15:30/eli-c
Radium 226	0.4	pCi/L				1	E903.0 04/21/08 14:47/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 04/21/08 14:47/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040028-004
 Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
 Collection Date: 04/01/08 16:35
 Date Received: 04/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.2	pCi/L					1	E903.0	04/21/08 14:47/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	04/09/08 16:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	04/09/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	136	pCi/L		100			1	D5072-92	04/03/08 18:27/eli-c
Radon 222 precision (±)	51.1	pCi/L					1	D5072-92	04/03/08 18:27/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	04/16/08 23:53/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	04/16/08 23:53/eli-c
Barium	ND	mg/L		0.1			2	E200.7	04/14/08 17:00/eli-c
Beryllium	ND	mg/L		0.001			2	E200.7	04/14/08 17:00/eli-c
Boron	ND	mg/L		0.1			2	E200.7	04/14/08 17:00/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/16/08 23:53/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	04/14/08 17:00/eli-c
Copper	ND	mg/L		0.01			1	E200.8	04/16/08 23:53/eli-c
Iron	ND	mg/L		0.03			2	E200.7	04/14/08 17:00/eli-c
Lead	ND	mg/L		0.001			1	E200.8	04/16/08 23:53/eli-c
Manganese	ND	mg/L		0.01			2	E200.7	04/14/08 17:00/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	04/11/08 13:59/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	04/16/08 23:53/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	04/14/08 17:00/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	04/16/08 23:53/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/16/08 23:53/eli-c
Strontium	ND	mg/L		0.1			1	E200.8	04/16/08 23:53/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	04/16/08 23:53/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	04/16/08 23:53/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	04/16/08 23:53/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080407A-ALK-SEL-W		
Sample ID: LCS1_080407A Alkalinity, Total as CaCO3	Laboratory Control Sample 972	mg/L	5.0	97	90	110			04/07/08 10:43
Sample ID: MBLK1_080407A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						04/07/08 10:46
Sample ID: R08040028-001AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 236	mg/L	5.0	94	80	120			04/07/08 11:05
Sample ID: R08040028-001AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 240	mg/L	5.0	98	80	120	1.7	10	04/07/08 11:11
Method: A2510 B							Batch: 080405_1_COND-PROBE-W		
Sample ID: LCS1-1_080405 Conductivity @ 25 C	Laboratory Control Sample 145	umhos/cm	5.0	97	90	110			04/05/08 14:35
Sample ID: LCS2-1_080405 Conductivity @ 25 C	Laboratory Control Sample 4950	umhos/cm	5.0	99	90	110			04/05/08 14:36
Sample ID: LCS_COND-1_080405 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			04/05/08 14:36
Sample ID: MBLK-1_080405 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						04/05/08 14:37
Method: A2540 C							Batch: 080407A-SLDS-TDS-W		
Sample ID: LCS1_080407A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 2000	mg/L	5.0	102	90	110			04/07/08 08:38
Sample ID: MBLK1_080407A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						04/07/08 08:39
Sample ID: R08040002-002AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 4300	mg/L	5.0	104	80	120			04/07/08 08:41
Sample ID: R08040002-002AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 4300	mg/L	5.0	107	80	120	1.3	10	04/07/08 08:41
Sample ID: R08040069-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 3400	mg/L	5.0	107	80	120			04/07/08 08:48
Sample ID: R08040069-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 3400	mg/L	5.0	107	80	120	0.3	10	04/07/08 08:48

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE-3114-080407A		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05						
					Run: SUB-C99208				04/07/08 12:04
Sample ID: 288-54-6 Selenium	Laboratory Control Sample 0.050 mg/L		0.0010	100	90	110			04/07/08 12:06
					Run: SUB-C99208				04/07/08 12:41
Sample ID: C08040192-002EMS Selenium	Sample Matrix Spike 0.050 mg/L		0.0010	99	85	115			04/07/08 12:41
					Run: SUB-C99208				04/07/08 12:43
Sample ID: C08040192-002EMSD Selenium	Sample Matrix Spike Duplicate 0.051 mg/L		0.0010	101	85	115	2.0	10	04/07/08 12:43
					Run: SUB-C99208				04/07/08 12:43
Method: A3114 B							Batch: C_SEIV-3114-080407		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05						
					Run: SUB-C99195				04/07/08 09:27
Sample ID: 288-54-6 Selenium-IV	Laboratory Control Sample 0.045 mg/L		0.0010	91	90	110			04/07/08 09:29
					Run: SUB-C99195				04/07/08 09:29
Sample ID: C08040192-002EMS Selenium-IV	Sample Matrix Spike 0.043 mg/L		0.0010	86	85	115			04/07/08 10:10
					Run: SUB-C99195				04/07/08 10:10
Sample ID: C08040192-002EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.045 mg/L		0.0010	90	85	115	4.7	10	04/07/08 10:12
					Run: SUB-C99195				04/07/08 10:12
Method: A4500-H B							Batch: 080405_1_PH-W		
Sample ID: LCS_pH-1_080405 pH	Laboratory Control Sample 6.94 s.u.		0.010	101	98.55	101.45			04/05/08 14:19
					Run: PH_COND2-R_080405A				04/05/08 14:19

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-04-04_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01				Run: TECHAA2-R_080404A		04/04/08 09:05
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110	Run: TECHAA2-R_080404A		04/04/08 09:06
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110	Run: TECHAA2-R_080404A		04/04/08 09:08
Sample ID: R08040003-001CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.19	mg/L	0.10	76	80	120	Run: TECHAA2-R_080404A		04/04/08 10:49 S
Sample ID: R08040003-001CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.19	mg/L	0.10	74	80	120	Run: TECHAA2-R_080404A	3.2	10 S
Method: D5072-92							Batch: C_R99230		
Sample ID: C08040148-009GDUP Radon 222	Sample Duplicate 464	pCi/L	100				Run: SUB-C99230	5.5	04/03/08 18:27 30
Sample ID: MB-R99230 Radon 222	Method Blank -10	pCi/L					Run: SUB-C99230		04/03/08 18:27 U
Sample ID: LCS-R99230 Radon 222	Laboratory Control Sample 298	pCi/L	100	98	70	130	Run: SUB-C99230		04/03/08 18:27

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18214		
Sample ID: MB-18214	Method Blank			Run: SUB-C99617			04/14/08 16:36		
Barium	ND	mg/L	0.004						
Boron	0.008	mg/L	0.006						
Chromium	ND	mg/L	0.003						
Iron	ND	mg/L	0.005						
Manganese	ND	mg/L	0.0008						
Nickel	ND	mg/L	0.02						
Sample ID: LCS-18214	Laboratory Control Sample			Run: SUB-C99617			04/14/08 16:39		
Barium	0.497	mg/L	0.10	99	85	115			
Boron	0.503	mg/L	0.10	101	85	115			
Chromium	0.508	mg/L	0.050	102	85	115			
Iron	0.504	mg/L	0.030	101	85	115			
Manganese	0.484	mg/L	0.010	97	85	115			
Nickel	0.474	mg/L	0.050	95	85	115			
Sample ID: C08040196-003D MS	Sample Matrix Spike			Run: SUB-C99617			04/14/08 17:23		
Barium	0.521	mg/L	0.10	100	70	130			
Boron	0.573	mg/L	0.10	100	70	130			
Chromium	0.502	mg/L	0.050	100	70	130			
Iron	0.621	mg/L	0.030	103	70	130			
Manganese	0.566	mg/L	0.010	98	70	130			
Nickel	0.459	mg/L	0.050	92	70	130			
Sample ID: C08040196-003D MSD	Sample Matrix Spike Duplicate			Run: SUB-C99617			04/14/08 17:26		
Barium	0.517	mg/L	0.10	99	70	130	0.7	20	
Boron	0.566	mg/L	0.10	99	70	130	1.3	20	
Chromium	0.501	mg/L	0.050	100	70	130	0.3	20	
Iron	0.621	mg/L	0.030	103	70	130	0.0	20	
Manganese	0.559	mg/L	0.010	96	70	130	1.2	20	
Nickel	0.481	mg/L	0.050	96	70	130	4.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99617		
Sample ID: MB-080414A	Method Blank		Run: SUB-C99617			04/14/08 12:04			
Silica	ND	mg/L	0.06						
Aluminum	ND	mg/L	0.008						
Barium	ND	mg/L	0.006						
Boron	0.006	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Chromium	ND	mg/L	0.003						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0004						
Molybdenum	ND	mg/L	0.01						
Potassium	ND	mg/L	0.08						
Sodium	ND	mg/L	0.06						
Vanadium	ND	mg/L	0.006						
Zinc	ND	mg/L	0.004						
Sample ID: LFB-080414A	Laboratory Fortified Blank		Run: SUB-C99617			04/14/08 12:08			
Silica	0.96	mg/L	0.10	96	85	125			
Aluminum	0.92	mg/L	0.10	92	85	125			
Barium	0.93	mg/L	0.10	93	85	125			
Boron	0.95	mg/L	0.10	94	85	125			
Calcium	51	mg/L	0.50	102	85	125			
Chromium	0.95	mg/L	0.050	95	85	125			
Copper	0.89	mg/L	0.010	89	85	125			
Iron	0.93	mg/L	0.030	93	85	125			
Magnesium	50	mg/L	0.50	100	85	125			
Manganese	0.91	mg/L	0.010	91	85	125			
Molybdenum	0.99	mg/L	0.10	99	85	125			
Potassium	47	mg/L	0.50	94	85	125			
Sodium	48	mg/L	0.50	96	85	125			
Vanadium	0.97	mg/L	0.10	97	85	125			
Zinc	0.96	mg/L	0.010	96	85	125			
Sample ID: C08040196-001CMS2	Sample Matrix Spike		Run: SUB-C99617			04/14/08 13:08			
Aluminum	0.872	mg/L	0.10	86	70	130			
Barium	0.916	mg/L	0.10	89	70	130			
Boron	0.930	mg/L	0.10	86	70	130			
Chromium	0.901	mg/L	0.050	88	70	130			
Copper	0.852	mg/L	0.010	84	70	130			
Iron	0.907	mg/L	0.030	87	70	130			
Manganese	0.926	mg/L	0.010	86	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99617		
Sample ID: C08040196-001CMS2	Sample Matrix Spike			Run: SUB-C99617			04/14/08 13:08		
Molybdenum	0.922	mg/L	0.10	90	70	130			
Vanadium	0.938	mg/L	0.10	92	70	130			
Zinc	0.978	mg/L	0.010	96	70	130			
Calcium	74.4	mg/L	1.0	91	70	130			
Magnesium	56.4	mg/L	1.0	91	70	130			
Potassium	55.4	mg/L	1.0	90	70	130			
Silica	8.74	mg/L	0.10		70	130			A
Sodium	303	mg/L	1.0		70	130			A
Sample ID: C08040196-001CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C99617			04/14/08 13:11		
Aluminum	0.863	mg/L	0.10	85	70	130	1.1	20	
Barium	0.911	mg/L	0.10	88	70	130	0.6	20	
Boron	0.933	mg/L	0.10	86	70	130	0.3	20	
Chromium	0.893	mg/L	0.050	88	70	130	0.9	20	
Copper	0.849	mg/L	0.010	83	70	130	0.4	20	
Iron	0.913	mg/L	0.030	88	70	130	0.7	20	
Manganese	0.922	mg/L	0.010	86	70	130	0.4	20	
Molybdenum	0.915	mg/L	0.10	90	70	130	0.8	20	
Vanadium	0.932	mg/L	0.10	91	70	130	0.7	20	
Zinc	0.969	mg/L	0.010	95	70	130	0.9	20	
Calcium	74.5	mg/L	1.0	91	70	130	0.1	20	
Magnesium	56.5	mg/L	1.0	91	70	130	0.2	20	
Potassium	55.9	mg/L	1.0	91	70	130	0.9	20	
Silica	8.79	mg/L	0.10		70	130	0.6	20	A
Sodium	303	mg/L	1.0		70	130	0.1	20	A
Sample ID: C08040167-001CMS2	Sample Matrix Spike			Run: SUB-C99617			04/14/08 14:01		
Aluminum	0.873	mg/L	0.10	85	70	130			
Barium	0.944	mg/L	0.10	89	70	130			
Boron	0.963	mg/L	0.10	92	70	130			
Chromium	0.919	mg/L	0.050	90	70	130			
Copper	0.843	mg/L	0.010	83	70	130			
Iron	0.973	mg/L	0.030	88	70	130			
Manganese	0.899	mg/L	0.010	86	70	130			
Molybdenum	0.941	mg/L	0.10	92	70	130			
Vanadium	0.939	mg/L	0.10	92	70	130			
Zinc	0.967	mg/L	0.010	95	70	130			
Calcium	104	mg/L	1.0	87	70	130			
Magnesium	54.3	mg/L	1.0	93	70	130			
Potassium	47.1	mg/L	1.0	88	70	130			
Silica	15.4	mg/L	0.10		70	130			A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99617		
Sample ID: C08040167-001CMS2	Sample Matrix Spike			Run: SUB-C99617			04/14/08 14:01		
Sodium	60.9	mg/L	1.0	89	70	130			
Sample ID: C08040167-001CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C99617			04/14/08 14:04		
Aluminum	0.875	mg/L	0.10	86	70	130	0.2	20	
Barium	0.940	mg/L	0.10	89	70	130	0.3	20	
Boron	0.970	mg/L	0.10	93	70	130	0.7	20	
Chromium	0.917	mg/L	0.050	90	70	130	0.2	20	
Copper	0.848	mg/L	0.010	83	70	130	0.6	20	
Iron	0.977	mg/L	0.030	88	70	130	0.4	20	
Manganese	0.898	mg/L	0.010	86	70	130	0.1	20	
Molybdenum	0.939	mg/L	0.10	92	70	130	0.2	20	
Vanadium	0.934	mg/L	0.10	92	70	130	0.5	20	
Zinc	0.957	mg/L	0.010	94	70	130	1.1	20	
Calcium	104	mg/L	1.0	87	70	130	0.3	20	
Magnesium	54.2	mg/L	1.0	92	70	130	0.2	20	
Potassium	47.1	mg/L	1.0	88	70	130	0.0	20	
Silica	15.4	mg/L	0.10		0	0			
Sodium	61.0	mg/L	1.0	89	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18214		
Sample ID: MB-18214	Method Blank		Run: SUB-C99752				04/16/08 21:17		
Antimony	ND	mg/L	0.0002						
Arsenic	7E-05	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0002						
Silver	9E-05	mg/L	4E-05						
Strontium	0.00010	mg/L	8E-05						
Thallium	7E-05	mg/L	3E-05						
Uranium	0.0001	mg/L	3E-05						
Zinc	0.003	mg/L	0.0003						
Sample ID: LCS-18214	Laboratory Control Sample		Run: SUB-C99752				04/16/08 21:24		
Antimony	0.510	mg/L	0.050	102	85	115			
Arsenic	0.525	mg/L	0.0010	105	85	115			
Cadmium	0.522	mg/L	0.010	104	85	115			
Copper	0.513	mg/L	0.010	103	85	115			
Lead	0.514	mg/L	0.050	103	85	115			
Molybdenum	0.508	mg/L	0.10	102	85	115			
Selenium	0.528	mg/L	0.0020	106	85	115			
Silver	0.159	mg/L	0.010	79	85	115			S
Strontium	0.519	mg/L	0.10	104	85	115			
Thallium	0.511	mg/L	0.10	102	85	115			
Uranium	0.551	mg/L	0.00032	110	85	115			
Zinc	0.547	mg/L	0.010	109	85	115			
- The LCS Silver recovery was outside of the recommended acceptance range. The MS and MSD recoveries were within acceptance range, and so the batch is accepted.									
Sample ID: C08040196-003D MS4	Post Digestion Spike		Run: SUB-C99752				04/17/08 00:20		
Antimony	0.0213	mg/L	0.050	106	70	130			
Arsenic	0.0230	mg/L	0.0010	106	70	130			
Cadmium	0.0196	mg/L	0.010	98	70	130			
Copper	0.0203	mg/L	0.010	97	70	130			
Lead	0.0204	mg/L	0.050	102	70	130			
Molybdenum	0.0255	mg/L	0.10	106	70	130			
Selenium	0.0971	mg/L	0.0010	97	70	130			
Silver	0.0200	mg/L	0.010	100	70	130			
Strontium	0.931	mg/L	0.10		70	130			A
Thallium	0.0196	mg/L	0.10	98	70	130			
Uranium	0.0246	mg/L	0.00030	107	70	130			
Zinc	0.0258	mg/L	0.010	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18214		
Sample ID: C08040196-003D MSD4	Post Digestion Spike Duplicate			Run: SUB-C99752			04/17/08 00:27		
Antimony	0.0215	mg/L	0.050	107	70	130	0.0	20	
Arsenic	0.0222	mg/L	0.0010	102	70	130	3.7	20	
Cadmium	0.0198	mg/L	0.010	99	70	130	1.0	20	
Copper	0.0200	mg/L	0.010	96	70	130	1.2	20	
Lead	0.0207	mg/L	0.050	103	70	130	0.0	20	
Molybdenum	0.0260	mg/L	0.10	108	70	130	0.0	20	
Selenium	0.0971	mg/L	0.0010	97	70	130	0.0	20	
Silver	0.0205	mg/L	0.010	102	70	130	2.5	20	
Strontium	0.941	mg/L	0.10		70	130	1.0	20	A
Thallium	0.0202	mg/L	0.10	101	70	130	0.0	20	
Uranium	0.0249	mg/L	0.00030	109	70	130	1.2	20	
Zinc	0.0254	mg/L	0.010	94	70	130	1.4	20	
Method: E200.8							Batch: C_18234		
Sample ID: MB-18234	Method Blank			Run: SUB-C99827			04/17/08 13:25		
Uranium	0.0008	mg/L	2E-05						
Sample ID: LCS1-18234	Laboratory Control Sample			Run: SUB-C99827			04/17/08 13:29		
Uranium	0.0512	mg/L	0.00030	97	80	120			
Sample ID: R08040058-001I	Post Digestion Spike			Run: SUB-C99827			04/17/08 14:18		
Uranium	0.0126	mg/L	0.00030	95	70	130			
Sample ID: R08040058-001I	Post Digestion Spike Duplicate			Run: SUB-C99827			04/17/08 14:22		
Uranium	0.0126	mg/L	0.00030	95	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100014		
Sample ID: LRB	Method Blank		Run: SUB-C100014			04/22/08 14:44			
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Thorium 232	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C100014			04/22/08 14:51			
Arsenic	0.0530	mg/L	0.0010	106	85	115			
Cadmium	0.0534	mg/L	0.0010	107	85	115			
Lead	0.0538	mg/L	0.0010	108	85	115			
Mercury	0.00542	mg/L	0.0010	108	85	115			
Nickel	0.0535	mg/L	0.0010	107	85	115			
Silver	0.0206	mg/L	0.0010	103	85	115			
Thorium 232	0.0533	mg/L	0.0010	106	85	115			
Uranium	0.0523	mg/L	0.00030	105	85	115			
Sample ID: R08040028-004C	Post Digestion Spike		Run: SUB-C100014			04/22/08 15:45			
Arsenic	0.0514	mg/L	0.0010	103	70	130			
Cadmium	0.0511	mg/L	0.010	102	70	130			
Lead	0.0519	mg/L	0.050	104	70	130			
Mercury	0.00518	mg/L	0.0010	104	70	130			
Nickel	0.0507	mg/L	0.050	101	70	130			
Silver	0.0165	mg/L	0.010	82	70	130			
Thorium 232	0.0511	mg/L	0.0010	102	70	130			
Uranium	0.0513	mg/L	0.00030	102	70	130			
Sample ID: R08040028-004C	Post Digestion Spike Duplicate		Run: SUB-C100014			04/22/08 16:12			
Arsenic	0.0514	mg/L	0.0010	103	70	130	0.1	20	
Cadmium	0.0515	mg/L	0.010	103	70	130	0.8	20	
Lead	0.0519	mg/L	0.050	104	70	130	0.0	20	
Mercury	0.00524	mg/L	0.0010	105	70	130	1.1	20	
Nickel	0.0511	mg/L	0.050	102	70	130	0.8	20	
Silver	0.0175	mg/L	0.010	87	70	130	6.0	20	
Thorium 232	0.0513	mg/L	0.0010	103	70	130	0.4	20	
Uranium	0.0506	mg/L	0.00030	101	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100330		
Sample ID: LRB	Method Blank		Run: SUB-C100330			04/28/08 11:48			
Arsenic	ND	mg/L	6E-05						
Cadmium	2E-05	mg/L	1E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Thorium 232	0.0001	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C100330			04/28/08 11:55			
Arsenic	0.0529	mg/L	0.0010	106	85	115			
Cadmium	0.0525	mg/L	0.0010	105	85	115			
Lead	0.0528	mg/L	0.0010	106	85	115			
Mercury	0.00553	mg/L	0.0010	111	85	115			
Nickel	0.0533	mg/L	0.0010	107	85	115			
Silver	0.0206	mg/L	0.0010	103	85	115			
Thorium 232	0.0525	mg/L	0.0010	105	85	115			
Uranium	0.0525	mg/L	0.00030	105	85	115			
Sample ID: R08040028-003C	Post Digestion Spike		Run: SUB-C100330			04/28/08 20:57			
Arsenic	0.0519	mg/L	0.0010	102	70	130			
Cadmium	0.0491	mg/L	0.010	98	70	130			
Lead	0.0515	mg/L	0.050	103	70	130			
Mercury	0.00545	mg/L	0.0010	109	70	130			
Nickel	0.0490	mg/L	0.050	98	70	130			
Silver	0.0134	mg/L	0.010	67	70	130			S
Thorium 232	0.0529	mg/L	0.0010	106	70	130			
Uranium	0.0533	mg/L	0.00030	106	70	130			
Sample ID: R08040028-003C	Post Digestion Spike Duplicate		Run: SUB-C100330			04/28/08 21:24			
Arsenic	0.0522	mg/L	0.0010	103	70	130	0.6	20	
Cadmium	0.0491	mg/L	0.010	98	70	130	0.0	20	
Lead	0.0511	mg/L	0.050	102	70	130	0.7	20	
Mercury	0.00549	mg/L	0.0010	110	70	130	0.7	20	
Nickel	0.0486	mg/L	0.050	97	70	130	0.0	20	
Silver	0.0120	mg/L	0.010	60	70	130	11	20	S
Thorium 232	0.0534	mg/L	0.0010	107	70	130	0.9	20	
Uranium	0.0536	mg/L	0.00030	107	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_31868		
Sample ID: MB-31868	Method Blank								
Mercury	ND	mg/L	5E-05						Run: SUB-C99522 04/11/08 12:57
Sample ID: LFB-31868	Laboratory Fortified Blank								Run: SUB-C99522 04/11/08 14:33
Mercury	0.0021	mg/L	0.0010	106	85	115			
Sample ID: B08041116-007DMS	Sample Matrix Spike								Run: SUB-C99522 04/11/08 13:42
Mercury	0.0036	mg/L	0.0010	90	70	130			
Sample ID: B08041116-007DMSD	Sample Matrix Spike Duplicate								Run: SUB-C99522 04/11/08 13:45
Mercury	0.0036	mg/L	0.0010	89	70	130	1.1	30	
Method: E300.0							Batch: R34041		
Sample ID: LFB0804024817-3	Laboratory Fortified Blank								Run: DIONEX_080402A 04/02/08 17:09
Chloride	4.58	mg/L	0.50	92	90	110			
Fluoride	1.95	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.46	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.35	mg/L	0.10	94	90	110			
Sulfate	13.7	mg/L	1.0	91	90	110			
Sample ID: LFB0804024817-4	Laboratory Fortified Blank								Run: DIONEX_080402A 04/02/08 17:24
Chloride	4.72	mg/L	0.50	94	90	110			
Fluoride	2.04	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.28	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.43	mg/L	0.10	97	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R08040028-002AMS	Sample Matrix Spike								Run: DIONEX_080402A 04/02/08 21:16
Chloride	247	mg/L	5.4	90	80	120			
Fluoride	105	mg/L	0.56	105	80	120			
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	991	mg/L	3.4	83	80	120			
Sample ID: R08040028-002AMSD	Sample Matrix Spike Duplicate								Run: DIONEX_080402A 04/02/08 21:31
Chloride	237	mg/L	5.4	86	80	120	3.9	10	
Fluoride	101	mg/L	0.56	101	80	120	3.6	10	
Nitrogen, Nitrate as N	111	mg/L	1.3	89	80	120	3.7	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	3.9	10	
Sulfate	975	mg/L	3.4	81	80	120	1.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0425		
Sample ID: MB-GrAB-0425	Method Blank								
Gross Alpha	-0.4	pCi/L							U
Gross Beta	-3	pCi/L							U
Sample ID: UNAT-GrAB-0425	Laboratory Control Sample								
Gross Alpha	250	pCi/L	103		70	130			
Sample ID: Cs137-GrAB-0425	Laboratory Control Sample								
Gross Beta	100	pCi/L	109		70	130			
Sample ID: C08040142-001CMS	Sample Matrix Spike								
Gross Alpha	280	pCi/L	113		70	130			
Sample ID: C08040142-001CMSD	Sample Matrix Spike Duplicate								
Gross Alpha	210	pCi/L		87	70	130	26	14.9	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: C08040142-001CMS	Sample Matrix Spike								
Gross Beta	100	pCi/L	109		70	130			
Sample ID: C08040142-001CMSD	Sample Matrix Spike Duplicate								
Gross Beta	100	pCi/L	110		70	130	1.2	15.9	
Method: E901.1							Batch: C_R99476		
Sample ID: LCS-R99476	Laboratory Control Sample								
Americium 241	740	pCi/L	20	91	70	130			
Cesium 137	1200	pCi/L	20	83	70	130			
Sample ID: MB-R99476	Method Blank								
Gross Gamma	ND	pCi/L							U
Sample ID: C08040148-004HDUP	Sample Duplicate								
Gross Gamma	580	pCi/L	20				3.1	30	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18234		
Sample ID: C08040215-001AMS Radium 226	Sample Matrix Spike 120	pCi/Filter		94	70	130			04/21/08 14:47
Sample ID: C08040215-001AMSD Radium 226	Sample Matrix Spike Duplicate 113	pCi/Filter		88	70	130	5.9	21.7	04/21/08 14:47
Sample ID: LCS-18234 Radium 226	Laboratory Control Sample 11	pCi/L		76	70	130			04/21/08 16:36
Sample ID: MB-18234 Radium 226	Method Blank 2	pCi/L							04/21/08 16:36
Method: E903.0							Batch: C_RA226-2728		
Sample ID: C08040239-004BMS Radium 226	Sample Matrix Spike 6.1	pCi/L		89	70	130			04/23/08 04:05
Sample ID: C08040239-004BMSD Radium 226	Sample Matrix Spike Duplicate 5.9	pCi/L		86	70	130	3.0	22.3	04/23/08 04:05
Sample ID: MB-RA226-2728 Radium 226	Method Blank 0.3	pCi/L							04/23/08 04:06
Sample ID: LCS-RA226-2728 Radium 226	Laboratory Control Sample 6.0	pCi/L		90	70	130			04/23/08 14:56
Method: E907.0							Batch: C_18234		
Sample ID: R08040058-001I Thorium 230	Sample Matrix Spike 10.3	pCi/L	0.20	83	70	130			04/09/08 16:00
Sample ID: R08040058-001I Thorium 230	Sample Matrix Spike Duplicate 11.3	pCi/L	0.20	90	70	130	8.9	30	04/09/08 16:00
Sample ID: LCS-R99603 Thorium 230	Laboratory Control Sample 50.8	pCi/L	0.20	103	70	130			04/09/08 16:00
Sample ID: MB-R99603 Thorium 230	Method Blank 1	pCi/L							04/09/08 16:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R99824		
Sample ID: LCS-R99824	Laboratory Control Sample								04/11/08 15:30
Thorium 230	6.50	pCi/L	0.20	93	70	130			
Sample ID: C08040254-001BMS	Sample Matrix Spike								04/11/08 15:30
Thorium 230	14.1	pCi/L	0.20	88	70	130			
Sample ID: C08040254-001BMSD	Sample Matrix Spike Duplicate								04/11/08 15:30
Thorium 230	18.8	pCi/L	0.20	115	70	130	29	30	
Sample ID: MB-R99824	Method Blank								04/11/08 15:30
Thorium 230	0.02	pCi/L							U
Method: E909.0M							Batch: C_18234		
Sample ID: R08040028-002I	Sample Matrix Spike								04/10/08 11:00
Lead 210	1200	pCi/L	1.0	104	70	130			
Sample ID: R08040028-002I	Sample Matrix Spike Duplicate								04/10/08 11:00
Lead 210	980	pCi/L	1.0	82	70	130	23	30	
Sample ID: MB-R100050	Method Blank								04/10/08 11:00
Lead 210		pCi/L							U
Sample ID: LCS-R100050	Laboratory Control Sample								04/10/08 11:00
Lead 210	110	pCi/L	1.0	90	70	130			
Method: E909.0M							Batch: C_R100194		
Sample ID: R08040058-001H	Sample Matrix Spike								04/11/08 09:45
Lead 210	600	pCi/L	1.0	101	70	130			
Sample ID: R08040058-001H	Sample Matrix Spike Duplicate								04/11/08 09:45
Lead 210	590	pCi/L	1.0	100	70	130	1.2	30	
Sample ID: MB-R100194	Method Blank								04/11/08 09:45
Lead 210		pCi/L							U
Sample ID: LCS-R100194	Laboratory Control Sample								04/11/08 09:45
Lead 210	120	pCi/L	1.0	104	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08040028

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R100292		
Sample ID: C08040264-009AMS Lead 210	Sample Matrix Spike 490	pCi/L	1.0	83	70	130			04/15/08 11:15
									Run: SUB-C100292
Sample ID: C08040264-009AMSD Lead 210	Sample Matrix Spike Duplicate 500	pCi/L	1.0	85	70	130	2.5	30	04/15/08 11:15
									Run: SUB-C100292
Sample ID: MB-R100292 Lead 210	Method Blank	pCi/L							04/15/08 11:15 U
									Run: SUB-C100292
Sample ID: LCS-R100292 Lead 210	Laboratory Control Sample 110	pCi/L	1.0	91	70	130			04/15/08 11:15
									Run: SUB-C100292
Method: RMO-3008							Batch: C_18234		
Sample ID: C08040246-003FMS Polonium 210	Sample Matrix Spike 88	pCi/L	1.0	99	70	130			04/29/08 15:30
									Run: SUB-C100641
Sample ID: C08040246-003FMSD Polonium 210	Sample Matrix Spike Duplicate 87	pCi/L	1.0	98	70	130	1.6	30	04/29/08 15:30
									Run: SUB-C100641
Sample ID: LCS-18234 Polonium 210	Laboratory Control Sample 180	pCi/L	1.0	101	70	130			04/29/08 15:30
									Run: SUB-C100641
Sample ID: MB-18234 Polonium 210	Method Blank 2	pCi/L							04/29/08 15:30
									Run: SUB-C100641
Method: RMO-3008							Batch: C_R99727		
Sample ID: C08040196-002HMS Polonium 210	Sample Matrix Spike 210	pCi/L	1.0	118	70	130			04/08/08 12:00
									Run: SUB-C99727
Sample ID: C08040196-002HMSD Polonium 210	Sample Matrix Spike Duplicate 170	pCi/L	1.0	99	70	130	17	30	04/08/08 12:00
									Run: SUB-C99727
Sample ID: LCS-R99727 Polonium 210	Laboratory Control Sample 77	pCi/L	1.0	86	70	130			04/08/08 12:00
									Run: SUB-C99727
Sample ID: MB-R99727 Polonium 210	Method Blank 1	pCi/L							04/08/08 12:00
									Run: SUB-C99727

Qualifiers:

RL - Analyte reporting limit.

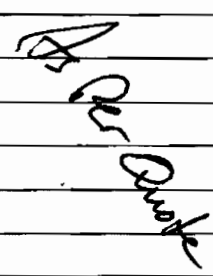
ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: LESER		Project Name, PWS, Permit, Etc. Parshall Perry budock		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: LESER		Contact Name: Cor. Foreman & Resper con		Email:	Sampler: (Please Print) Eric Leser
Invoice Address: LESER		Phone/Fax:		Purchase Order:	Quoter/Bottle Order:
Special Report/Formats - ELL must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: <input type="checkbox"/> State: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		Shipped by: Cooler Eto: Receipt Temp: 3.4 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal: Y N Intact: Y N Signature Match: Y N	
ANALYSIS REQUESTED 		SEE ATTACHED		Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: All GW	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) Per Boat starts		Collection Date	Collection Time	Normal Turnaround (TAT)	LABORATORY USE ONLY Received by (print): Date/Time: Signature:
1	DeaBurd GW 615	04/01/08	14:34		Signature: Eric Leser
2	DeaBurd GW 615	04/01/08	14:42		Signature: Eric Leser
3	DeaBurd GW 615 etc	04/01/08	14:56		Signature: Eric Leser
4	DeaBurd GW 615 etc	04/01/08	14:56		Signature: Eric Leser
5	DeaBurd GW 615 etc	04/01/08	16:35		Signature: Eric Leser
6	DeaBurd BLK 01	04/01/08	16:35		Signature: Eric Leser
7					
8					
9					
10					
Relinquished by (print): Eric Leser		Date/Time: 04/01/08 08:15		Received by (print): Eric Leser	
Relinquished by (print): Eric Leser		Date/Time: 04/01/08 08:15		Received by (print): Eric Leser	
MUST be Signed Sample Disposal: Return to Client: Lab Disposal:		Signature: Eric Leser		Signature: Eric Leser	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable free schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

June 24, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08040058 Quote ID: R286

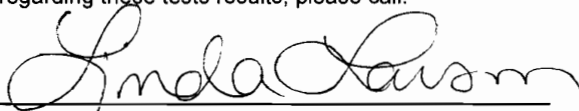
Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 4/3/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08040058-001	DewBurd GW688	04/02/08 18:07	04/03/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040058-001
 Client Sample ID: DewBurd GW688

Report Date: 06/24/08
 Collection Date: 04/02/08 18:07
 Date Received: 04/03/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	98	mg/L		5			1	A2320 B	04/07/08 11:29/mb
Carbonate as CO3	53	mg/L		5			1	A2320 B	04/07/08 11:29/mb
Bicarbonate as HCO3	12	mg/L		5			1	A2320 B	04/07/08 11:29/mb
Calcium	25.8	mg/L		0.5			2	E200.7	04/16/08 14:55/eli-c
Chloride	13	mg/L		1			1	E300.0	04/04/08 19:39/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	04/04/08 19:39/jmh
Magnesium	13.6	mg/L		0.5			2	E200.7	04/16/08 14:55/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1			1	A4500-NH3 G	04/04/08 10:57/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	04/04/08 19:39/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	04/04/08 19:39/jmh
Potassium	16.8	mg/L		0.5			2	E200.7	04/16/08 14:55/eli-c
Silica	7.9	mg/L		0.5			2	E200.7	04/16/08 14:55/eli-c
Sodium	193	mg/L		0.5			2	E200.7	04/16/08 14:55/eli-c
Sulfate	428	mg/L	D	3			50	E300.0	04/04/08 18:53/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1180	umhos/cm		5.0			1	A2510 B	04/05/08 14:45/jmh
Oxidation-Reduction Potential	110	mV					1	A2580 B	04/04/08 00:00/jmh
pH	10.3	s.u.		0.01			1	A4500-H B	04/05/08 14:30/jmh
Sodium Adsorption Ratio (SAR)	7.6	unitless		0.10			1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	690	mg/L		5			1	A2540 C	04/07/08 08:46/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	04/16/08 14:55/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	04/25/08 20:21/eli-c
Barium	ND	mg/L		0.1			2	E200.7	04/16/08 14:55/eli-c
Boron	ND	mg/L		0.1			2	E200.7	04/16/08 14:55/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/25/08 20:21/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	04/16/08 14:55/eli-c
Copper	ND	mg/L		0.01			2	E200.7	04/16/08 14:55/eli-c
Iron	ND	mg/L		0.03			2	E200.7	04/16/08 14:55/eli-c
Lead	ND	mg/L		0.001			1	E200.8	04/25/08 20:21/eli-c
Manganese	ND	mg/L		0.01			2	E200.7	04/16/08 14:55/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	04/25/08 20:21/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	04/16/08 14:55/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	04/25/08 20:21/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	04/07/08 13:01/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/06/08 12:53/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040058-001
 Client Sample ID: DewBurd GW688

Report Date: 06/24/08
 Collection Date: 04/02/08 18:07
 Date Received: 04/03/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 04/25/08 20:21/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 04/25/08 20:21/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 04/16/08 14:55/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 04/16/08 14:55/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L	D	0.0008		1	E200.8 04/17/08 14:14/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 04/07/08 10:31/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 04/07/08 15:12/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	2.9	pCi/L				1	E900.0 04/25/08 22:38/eli-c
Gross Alpha precision (±)	1.9	pCi/L				1	E900.0 04/25/08 22:38/eli-c
Gross Alpha MDC	2.8	pCi/L				1	E900.0 04/25/08 22:38/eli-c
Gross Beta	8.8	pCi/L				1	E900.0 04/25/08 22:38/eli-c
Gross Beta precision (±)	2.0	pCi/L				1	E900.0 04/25/08 22:38/eli-c
Gross Beta MDC	3.1	pCi/L				1	E900.0 04/25/08 22:38/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M 04/11/08 09:45/eli-c
Lead 210 precision (±)	0.6	pCi/L				1	E909.0M 04/11/08 09:45/eli-c
Polonium 210	1.0	pCi/L		1.0		1	RMO-3008 04/08/08 13:00/eli-c
Polonium 210 precision (±)	0.8	pCi/L				1	RMO-3008 04/08/08 13:00/eli-c
Radium 226	0.3	pCi/L				1	E903.0 04/29/08 15:46/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0 04/29/08 15:46/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0 04/29/08 15:46/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 04/14/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 04/14/08 15:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1 04/10/08 15:29/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 04/10/08 15:29/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.4	pCi/L	U	1.0		1	E909.0M 04/10/08 11:00/eli-c
Lead 210 precision (±)	0.5	pCi/L				1	E909.0M 04/10/08 11:00/eli-c
Polonium 210	1.0	pCi/L		1.0		1	RMO-3008 04/29/08 15:30/eli-c
Polonium 210 precision (±)	0.64	pCi/L				1	RMO-3008 04/29/08 15:30/eli-c
Radium 226	0.9	pCi/L				1	E903.0 04/21/08 16:36/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 04/21/08 16:36/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040058-001
 Client Sample ID: DewBurd GW688

Report Date: 06/24/08
 Collection Date: 04/02/08 18:07
 Date Received: 04/03/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.1	pCi/L					1	E903.0	04/21/08 16:36/eli-c
Thorium 230	0.7	pCi/L		0.2			1	E907.0	04/09/08 16:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	04/09/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	608	pCi/L	H	100			1	D5072-92	04/07/08 14:17/eli-c
Radon 222 precision (±)	89.1	pCi/L	H				1	D5072-92	04/07/08 14:17/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	04/11/08 00:59/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	04/11/08 00:59/eli-c
Barium	ND	mg/L		0.1			1	E200.8	04/11/08 00:59/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	04/11/08 19:02/eli-c
Boron	ND	mg/L		0.1			2	E200.7	04/15/08 13:59/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	04/11/08 00:59/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	04/11/08 00:59/eli-c
Copper	ND	mg/L		0.01			1	E200.8	04/11/08 19:02/eli-c
Iron	0.07	mg/L		0.03			2	E200.7	04/15/08 13:59/eli-c
Lead	ND	mg/L		0.001			1	E200.8	04/11/08 00:59/eli-c
Manganese	0.03	mg/L		0.01			1	E200.8	04/11/08 19:02/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	04/11/08 00:59/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	04/16/08 15:46/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	04/11/08 00:59/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	04/11/08 19:02/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	04/11/08 00:59/eli-c
Silver	ND	mg/L		0.005			1	E200.8	04/11/08 00:59/eli-c
Strontium	1.2	mg/L		0.1			1	E200.8	04/11/08 00:59/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	04/11/08 00:59/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	04/11/08 00:59/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	04/11/08 19:02/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.0600						1	A1030 E	06/17/08 00:00/ADM
Anions	11.3	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	11.3	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	771	mg/L					1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.890						1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080407A-ALK-SEL-W		
Sample ID: LCS1_080407A Alkalinity, Total as CaCO3	Laboratory Control Sample 972	mg/L	5.0	97	90	110			04/07/08 10:43
Sample ID: MBLK1_080407A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						04/07/08 10:46
Sample ID: R08040028-001AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 236	mg/L	5.0	94	80	120			04/07/08 11:05
Sample ID: R08040028-001AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 240	mg/L	5.0	98	80	120	1.7	10	04/07/08 11:11
Method: A2510 B							Batch: 080405_1_COND-PROBE-W		
Sample ID: LCS1-1_080405 Conductivity @ 25 C	Laboratory Control Sample 145	umhos/cm	5.0	97	90	110			04/05/08 14:35
Sample ID: LCS2-1_080405 Conductivity @ 25 C	Laboratory Control Sample 4950	umhos/cm	5.0	99	90	110			04/05/08 14:36
Sample ID: LCS_COND-1_080405 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			04/05/08 14:36
Sample ID: MBLK-1_080405 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						04/05/08 14:37
Method: A2540 C							Batch: 080407A-SLDS-TDS-W		
Sample ID: LCS1_080407A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 2000	mg/L	5.0	102	90	110			04/07/08 08:38
Sample ID: MBLK1_080407A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						04/07/08 08:39
Sample ID: R08040069-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 3400	mg/L	5.0	107	80	120			04/07/08 08:48
Sample ID: R08040069-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 3400	mg/L	5.0	107	80	120	0.3	10	04/07/08 08:48

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE-3114-080407A		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05			Run: SUB-C99208			04/07/08 12:04
Sample ID: 288-54-6 Selenium	Laboratory Control Sample 0.050	mg/L	0.0010	100	90	110			04/07/08 12:06
Sample ID: C08040192-002EMS Selenium	Sample Matrix Spike 0.050	mg/L	0.0010	99	85	115			04/07/08 12:41
Sample ID: C08040192-002EMSD Selenium	Sample Matrix Spike Duplicate 0.051	mg/L	0.0010	101	85	115	2.0	10	04/07/08 12:43
Method: A3114 B							Batch: C_SEIV-3114-080407		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	6E-05			Run: SUB-C99195			04/07/08 09:27
Sample ID: 288-54-6 Selenium-IV	Laboratory Control Sample 0.045	mg/L	0.0010	91	90	110			04/07/08 09:29
Sample ID: C08040192-002EMS Selenium-IV	Sample Matrix Spike 0.043	mg/L	0.0010	86	85	115			04/07/08 10:10
Sample ID: C08040192-002EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.045	mg/L	0.0010	90	85	115	4.7	10	04/07/08 10:12
Method: A4500-H B							Batch: 080405_1_PH-W		
Sample ID: LCS_pH-1_080405 pH	Laboratory Control Sample 6.94	s.u.	0.010	101	98.55	101.45			04/05/08 14:19

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-04-04_2_NH3_01		
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						
									Run: TECHAA2-R_080404A 04/04/08 09:05
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.24	mg/L	0.10	98	90	110			04/04/08 09:06
									Run: TECHAA2-R_080404A
Sample ID: LFB-4	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.24	mg/L	0.10	98	90	110			04/04/08 09:08
									Run: TECHAA2-R_080404A
Sample ID: R08040003-001CMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.19	mg/L	0.10	76	80	120			04/04/08 10:49 S
									Run: TECHAA2-R_080404A
Sample ID: R08040003-001CMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.19	mg/L	0.10	74	80	120	3.2	10	04/04/08 10:50 S
									Run: TECHAA2-R_080404A
Method: D5072-92									Batch: C_R99299
Sample ID: R08040058-001G	Sample Duplicate								
Radon 222	636	pCi/L	100				4.6	30	04/07/08 14:17
									Run: SUB-C99299
Sample ID: MB-R99299	Method Blank								
Radon 222	-9	pCi/L							04/07/08 14:17 U
									Run: SUB-C99299
Sample ID: LCS-R99299	Laboratory Control Sample								
Radon 222	303	pCi/L	100	103	70	130			04/07/08 14:17
									Run: SUB-C99299
Method: E200.7									Batch: C_18255
Sample ID: MB-18255	Method Blank								
Boron	ND	mg/L	0.006						04/15/08 13:42
Iron	ND	mg/L	0.005						Run: SUB-C99715
Sample ID: LCS-18255	Laboratory Control Sample								
Boron	0.482	mg/L	0.10	96	85	115			04/15/08 13:45
Iron	0.473	mg/L	0.030	95	85	115			Run: SUB-C99715
Sample ID: C08040370-001A MS	Sample Matrix Spike								
Boron	0.486	mg/L	0.10	93	70	130			04/15/08 14:09
Iron	0.519	mg/L	0.030	91	70	130			Run: SUB-C99715
Sample ID: C08040370-001A MSD	Sample Matrix Spike Duplicate								
Boron	0.495	mg/L	0.10	95	70	130	1.9	20	04/15/08 14:12
Iron	0.529	mg/L	0.030	93	70	130	1.9	20	Run: SUB-C99715

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99737		
Sample ID: MB-080416A	Method Blank			Run: SUB-C99737			04/16/08 11:30		
Silica	ND	mg/L	0.06						
Aluminum	ND	mg/L	0.008						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Chromium	ND	mg/L	0.003						
Copper	ND	mg/L	0.005						
Iron	0.006	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0004						
Molybdenum	ND	mg/L	0.01						
Potassium	ND	mg/L	0.08						
Sodium	ND	mg/L	0.06						
Vanadium	ND	mg/L	0.006						
Zinc	ND	mg/L	0.004						
Sample ID: LFB-080416A	Laboratory Fortified Blank			Run: SUB-C99737			04/16/08 11:33		
Silica	0.95	mg/L	0.10	95	85	125			
Aluminum	0.89	mg/L	0.10	89	85	125			
Barium	0.88	mg/L	0.10	88	85	125			
Boron	0.92	mg/L	0.10	92	85	125			
Calcium	46	mg/L	0.50	92	85	125			
Chromium	0.90	mg/L	0.050	90	85	125			
Copper	0.87	mg/L	0.010	87	85	125			
Iron	0.89	mg/L	0.030	88	85	125			
Magnesium	47	mg/L	0.50	93	85	125			
Manganese	0.88	mg/L	0.010	88	85	125			
Molybdenum	0.94	mg/L	0.10	94	85	125			
Potassium	43	mg/L	0.50	86	85	125			
Sodium	45	mg/L	0.50	90	85	125			
Vanadium	0.94	mg/L	0.10	94	85	125			
Zinc	0.91	mg/L	0.010	91	85	125			
Sample ID: R08040058-001C	Sample Matrix Spike			Run: SUB-C99737			04/16/08 14:59		
Aluminum	1.74	mg/L	0.10	85	70	130			
Barium	1.78	mg/L	0.10	85	70	130			
Boron	1.86	mg/L	0.10	89	70	130			
Chromium	1.77	mg/L	0.050	87	70	130			
Copper	1.72	mg/L	0.011	85	70	130			
Iron	1.80	mg/L	0.030	88	70	130			
Manganese	1.76	mg/L	0.010	86	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R99737		
Sample ID: R08040058-001C	Sample Matrix Spike			Run: SUB-C99737			04/16/08 14:59		
Molybdenum	1.90	mg/L	0.10	91	70	130			
Vanadium	1.88	mg/L	0.10	92	70	130			
Zinc	1.89	mg/L	0.010	93	70	130			
Calcium	118	mg/L	1.0	90	70	130			
Magnesium	107	mg/L	1.0	91	70	130			
Potassium	103	mg/L	1.0	84	70	130			
Silica	9.71	mg/L	0.12	90	70	130			
Sodium	272	mg/L	1.0	78	70	130			
Sample ID: R08040058-001C	Sample Matrix Spike Duplicate			Run: SUB-C99737			04/16/08 15:02		
Aluminum	1.73	mg/L	0.10	85	70	130	0.6	20	
Barium	1.79	mg/L	0.10	86	70	130	0.2	20	
Boron	1.84	mg/L	0.10	88	70	130	0.9	20	
Chromium	1.76	mg/L	0.050	86	70	130	0.6	20	
Copper	1.71	mg/L	0.011	84	70	130	0.8	20	
Iron	1.79	mg/L	0.030	87	70	130	0.3	20	
Manganese	1.75	mg/L	0.010	86	70	130	0.7	20	
Molybdenum	1.84	mg/L	0.10	88	70	130	3.2	20	
Vanadium	1.86	mg/L	0.10	91	70	130	1.3	20	
Zinc	1.87	mg/L	0.010	92	70	130	1.0	20	
Calcium	118	mg/L	1.0	90	70	130	0.5	20	
Magnesium	106	mg/L	1.0	91	70	130	0.4	20	
Potassium	103	mg/L	1.0	84	70	130	0.2	20	
Silica	9.45	mg/L	0.12	77	70	130	2.7	20	
Sodium	269	mg/L	1.0	75	70	130	1.0	20	
Method: E200.8							Batch: C_18234		
Sample ID: MB-18234	Method Blank			Run: SUB-C99827			04/17/08 13:25		
Uranium	0.0008	mg/L	2E-05						
Sample ID: LCS1-18234	Laboratory Control Sample			Run: SUB-C99827			04/17/08 13:29		
Uranium	0.0512	mg/L	0.00030	97	80	120			
Sample ID: R08040058-001I	Post Digestion Spike			Run: SUB-C99827			04/17/08 14:18		
Uranium	0.0126	mg/L	0.00030	95	70	130			
Sample ID: R08040058-001I	Post Digestion Spike Duplicate			Run: SUB-C99827			04/17/08 14:22		
Uranium	0.0126	mg/L	0.00030	95	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18255		
Sample ID: MB-18255	Method Blank			Run: SUB-C99461			04/11/08 00:45		
Antimony	ND	mg/L	0.0002						
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	0.0003						
Cadmium	ND	mg/L	3E-05						
Chromium	0.001	mg/L	5E-05						
Lead	1E-05	mg/L							
Molybdenum	ND	mg/L	5E-05						
Selenium	0.0005	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	5E-05	mg/L	3E-05						
Uranium	7E-05	mg/L	3E-05						
Sample ID: LCS1-18255	Laboratory Control Sample			Run: SUB-C99461			04/11/08 00:52		
Antimony	0.0199	mg/L	0.050	99	80	120			
Arsenic	0.0221	mg/L	0.0010	111	80	120			
Barium	0.0194	mg/L	0.10	97	80	120			
Cadmium	0.0221	mg/L	0.010	110	80	120			
Chromium	0.0210	mg/L	0.050	99	80	120			
Lead	0.0197	mg/L	0.050	98	80	120			
Molybdenum	0.0218	mg/L	0.10	109	80	120			
Selenium	0.108	mg/L	0.0010	108	80	120			
Silver	0.0226	mg/L	0.010	113	80	120			
Strontium	0.0106	mg/L	0.10	106	80	120			
Thallium	0.0194	mg/L	0.10	97	80	120			
Uranium	0.0191	mg/L	0.00030	95	80	120			
Sample ID: C08040370-001AMS4	Post Digestion Spike			Run: SUB-C99461			04/11/08 02:00		
Antimony	0.0211	mg/L	0.050	104	70	130			
Arsenic	0.0232	mg/L	0.0010	116	70	130			
Barium	0.0351	mg/L	0.10	104	70	130			
Cadmium	0.0214	mg/L	0.010	105	70	130			
Chromium	0.0204	mg/L	0.050	95	70	130			
Lead	0.0212	mg/L	0.050	106	70	130			
Molybdenum	0.0257	mg/L	0.10	115	70	130			
Selenium	0.111	mg/L	0.0010	109	70	130			
Silver	0.0215	mg/L	0.010	107	70	130			
Strontium	1.70	mg/L	0.10		70	130			A
Thallium	0.0213	mg/L	0.10	106	70	130			
Uranium	0.0227	mg/L	0.00030	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18255		
Sample ID: C08040370-001AMSD4	Post Digestion Spike Duplicate			Run: SUB-C99461			04/11/08 02:07		
Antimony	0.0202	mg/L	0.050	100	70	130	0.0	20	
Arsenic	0.0230	mg/L	0.0010	115	70	130	0.9	20	
Barium	0.0344	mg/L	0.10	100	70	130	0.0	20	
Cadmium	0.0209	mg/L	0.010	103	70	130	2.5	20	
Chromium	0.0191	mg/L	0.050	89	70	130	0.0	20	
Lead	0.0203	mg/L	0.050	101	70	130	0.0	20	
Molybdenum	0.0250	mg/L	0.10	112	70	130	0.0	20	
Selenium	0.108	mg/L	0.0010	106	70	130	2.3	20	
Silver	0.0213	mg/L	0.010	107	70	130	0.8	20	
Strontium	1.65	mg/L	0.10	70	130	130	3.3	20	A
Thallium	0.0208	mg/L	0.10	103	70	130	0.0	20	
Uranium	0.0216	mg/L	0.00030	102	70	130	4.8	20	
Sample ID: MB-18255							Run: SUB-C99538		
Method Blank							04/11/08 18:48		
Antimony	ND	mg/L	0.0002						
Arsenic	0.0004	mg/L	5E-05						
Barium	ND	mg/L	0.0003						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	4E-05						
Chromium	0.0007	mg/L	5E-05						
Copper	0.0004	mg/L	0.0001						
Lead	ND	mg/L	5E-05						
Manganese	7E-05	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	4E-05						
Uranium	7E-05	mg/L	3E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LCS1-18255							Run: SUB-C99538		
Laboratory Control Sample							04/11/08 18:55		
Antimony	0.0202	mg/L	0.050	101	80	120			
Arsenic	0.0205	mg/L	0.0010	103	80	120			
Barium	0.0206	mg/L	0.10	103	80	120			
Beryllium	0.0217	mg/L	0.010	108	80	120			
Cadmium	0.0206	mg/L	0.010	103	80	120			
Chromium	0.0213	mg/L	0.050	107	80	120			
Copper	0.0208	mg/L	0.010	104	80	120			
Lead	0.0199	mg/L	0.050	99	80	120			
Manganese	0.0205	mg/L	0.010	102	80	120			
Molybdenum	0.0205	mg/L	0.10	102	80	120			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18255		
Sample ID: LCS1-18255	Laboratory Control Sample			Run: SUB-C99538			04/11/08 18:55		
Nickel	0.0201	mg/L	0.050	101	80	120			
Strontium	0.0110	mg/L	0.10	110	80	120			
Thallium	0.0177	mg/L	0.10	88	80	120			
Uranium	0.0210	mg/L	0.00030	105	80	120			
Zinc	0.0239	mg/L	0.010	119	80	120			
Sample ID: C08040370-001AMS4	Post Digestion Spike			Run: SUB-C99538			04/11/08 19:35		
Antimony	0.0222	mg/L	0.050	109	70	130			
Arsenic	0.0234	mg/L	0.0010	112	70	130			
Barium	0.0354	mg/L	0.10	101	70	130			
Beryllium	0.0178	mg/L	0.010	89	70	130			
Cadmium	0.0201	mg/L	0.010	99	70	130			
Chromium	0.0207	mg/L	0.050	99	70	130			
Copper	0.0255	mg/L	0.010	104	70	130			
Lead	0.0208	mg/L	0.050	104	70	130			
Manganese	0.729	mg/L	0.010		70	130			A
Molybdenum	0.0240	mg/L	0.10	107	70	130			
Nickel	0.0244	mg/L	0.050	118	70	130			
Strontium	1.64	mg/L	0.10		70	130			A
Thallium	0.0192	mg/L	0.10	95	70	130			
Uranium	0.0217	mg/L	0.00030	102	70	130			
Zinc	0.0553	mg/L	0.010	98	70	130			
Sample ID: C08040370-001AMSD4	Post Digestion Spike Duplicate			Run: SUB-C99538			04/11/08 19:42		
Antimony	0.0216	mg/L	0.050	106	70	130	0.0	20	
Arsenic	0.0222	mg/L	0.0010	106	70	130	5.3	20	
Barium	0.0364	mg/L	0.10	106	70	130	0.0	20	
Beryllium	0.0183	mg/L	0.010	91	70	130	2.9	20	
Cadmium	0.0200	mg/L	0.010	98	70	130	0.5	20	
Chromium	0.0205	mg/L	0.050	98	70	130	0.0	20	
Copper	0.0254	mg/L	0.010	103	70	130	0.4	20	
Lead	0.0200	mg/L	0.050	100	70	130	0.0	20	
Manganese	0.748	mg/L	0.010		70	130	2.6	20	A
Molybdenum	0.0240	mg/L	0.10	107	70	130	0.0	20	
Nickel	0.0253	mg/L	0.050	123	70	130	0.0	20	
Strontium	1.70	mg/L	0.10		70	130	3.6	20	A
Thallium	0.0196	mg/L	0.10	97	70	130	0.0	20	
Uranium	0.0221	mg/L	0.00030	104	70	130	2.1	20	
Zinc	0.0548	mg/L	0.010	95	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100187		
Sample ID: LRB	Method Blank			Run: SUB-C100187			04/25/08 11:29		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Lead	ND	mg/L	3E-05						
Mercury	8E-05	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Thorium 232	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C100187			04/25/08 11:36		
Arsenic	0.0540	mg/L	0.0010	108	85	115			
Cadmium	0.0551	mg/L	0.0010	110	85	115			
Lead	0.0546	mg/L	0.0010	109	85	115			
Mercury	0.00551	mg/L	0.0010	109	85	115			
Nickel	0.0537	mg/L	0.0010	107	85	115			
Thorium 232	0.0544	mg/L	0.0010	108	85	115			
Uranium	0.0550	mg/L	0.00030	110	85	115			
Sample ID: R08040058-001C	Post Digestion Spike			Run: SUB-C100187			04/25/08 20:28		
Arsenic	0.0515	mg/L	0.0010	101	70	130			
Cadmium	0.0487	mg/L	0.010	97	70	130			
Lead	0.0518	mg/L	0.050	104	70	130			
Mercury	0.00527	mg/L	0.0010	105	70	130			
Nickel	0.0479	mg/L	0.050	96	70	130			
Thorium 232	0.0530	mg/L	0.0010	106	70	130			
Uranium	0.0527	mg/L	0.00030	105	70	130			
Sample ID: R08040058-001C	Post Digestion Spike Duplicate			Run: SUB-C100187			04/25/08 20:34		
Arsenic	0.0517	mg/L	0.0010	101	70	130	0.3	20	
Cadmium	0.0496	mg/L	0.010	99	70	130	1.8	20	
Lead	0.0512	mg/L	0.050	102	70	130	1.1	20	
Mercury	0.00523	mg/L	0.0010	105	70	130	0.7	20	
Nickel	0.0479	mg/L	0.050	96	70	130	0.0	20	
Thorium 232	0.0524	mg/L	0.0010	105	70	130	1.1	20	
Uranium	0.0522	mg/L	0.00030	104	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100732		
Sample ID: LRB	Method Blank				Run: SUB-C100732		05/06/08 11:52		
Silver	5E-05	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C100732		05/06/08 11:59		
Silver	0.0211	mg/L	0.0010	105	85	115			
Sample ID: C08040928-001CMS4	Post Digestion Spike				Run: SUB-C100732		05/06/08 15:02		
Silver	0.0129	mg/L	0.010	65	70	130			S
Sample ID: C08040928-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C100732		05/06/08 15:08		
Silver	0.0134	mg/L	0.010	67	70	130	3.4	20	S
Method: E245.1							Batch: C_B_31952		
Sample ID: MB-31952	Method Blank				Run: SUB-C99797		04/16/08 15:32		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-31952	Laboratory Fortified Blank				Run: SUB-C99797		04/16/08 15:34		
Mercury	0.0020	mg/L	0.0010	101	85	115			
Sample ID: B08031990-003AMS	Sample Matrix Spike				Run: SUB-C99797		04/16/08 15:39		
Mercury	0.0019	mg/L	0.0010	96	70	130			
Sample ID: B08031990-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99797		04/16/08 15:41		
Mercury	0.0019	mg/L	0.0010	93	70	130	3.2	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34057		
Sample ID: LFB0804043239-3	Laboratory Fortified Blank			Run: DIONEX_080404A			04/04/08 18:07		
Chloride	4.88	mg/L	0.50	98	90	110			
Fluoride	2.04	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.49	mg/L	0.10	100	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: LFB0804043239-4	Laboratory Fortified Blank			Run: DIONEX_080404A			04/04/08 18:22		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	2.03	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.48	mg/L	0.10	99	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: R08040058-001AMS	Sample Matrix Spike			Run: DIONEX_080404A			04/04/08 19:09		
Chloride	257	mg/L	5.4	91	80	120			
Fluoride	108	mg/L	0.56	108	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	92	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sulfate	1030	mg/L	3.4	80	80	120			
Sample ID: R08040058-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080404A			04/04/08 19:24		
Chloride	247	mg/L	5.4	86	80	120	4.2	10	
Fluoride	103	mg/L	0.56	103	80	120	4.7	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	4.9	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	4.5	10	
Sulfate	990	mg/L	3.4	75	80	120	3.8	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0428		
Sample ID: MB-GrAB-0428	Method Blank								
Gross Alpha	-0.06	pCi/L							U
Gross Beta	-0.9	pCi/L							U
Sample ID: UNAT-GrAB-0428	Laboratory Control Sample								
Gross Alpha	240	pCi/L	100	70	130				04/26/08 10:51
Sample ID: Cs137-GrAB-0428	Laboratory Control Sample								
Gross Beta	87	pCi/L	94	70	130				04/25/08 22:38
Sample ID: C08040375-001AMS	Sample Matrix Spike								
Gross Alpha	264	pCi/L	108	70	130				04/25/08 22:38
Sample ID: C08040375-001AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	259	pCi/L	106	70	130	1.9	14.1		04/25/08 22:38
Sample ID: C08040375-001AMS	Sample Matrix Spike								
Gross Beta	94.5	pCi/L	103	70	130				04/25/08 22:38
Sample ID: C08040375-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	95.3	pCi/L	104	70	130	0.8	15.5		04/25/08 22:38
Sample ID: C08040265-002EDUP	Sample Duplicate								
Gross Alpha	40	pCi/L					2.3	37.6	04/26/08 10:51
Gross Beta	17	pCi/L					37	54.9	
Method: E901.1							Batch: C_R99476		
Sample ID: LCS-R99476	Laboratory Control Sample								
Americium 241	740	pCi/L	20	91	70	130			04/04/08 16:45
Cesium 137	1200	pCi/L	20	83	70	130			
Sample ID: MB-R99476	Method Blank								
Gross Gamma	ND	pCi/L							04/04/08 16:45 U
Sample ID: R08040058-001H	Sample Duplicate								
Gross Gamma	ND	pCi/L	20				0.0	30	04/10/08 18:11

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18234		
Sample ID: C08040215-001AMS Radium 226	Sample Matrix Spike 120 pCi/Filter			94	70	130			04/21/08 14:47
Sample ID: C08040215-001AMSD Radium 226	Sample Matrix Spike Duplicate 113 pCi/Filter			88	70	130	5.9	21.7	04/21/08 14:47
Sample ID: LCS-18234 Radium 226	Laboratory Control Sample 11 pCi/L			76	70	130			04/21/08 16:36
Sample ID: MB-18234 Radium 226	Method Blank 2 pCi/L								04/21/08 16:36
Method: E903.0							Batch: C_RA226-2735		
Sample ID: C08040334-002AMS Radium 226	Sample Matrix Spike 11 pCi/L			89	70	130			04/29/08 15:46
Sample ID: C08040334-002AMSD Radium 226	Sample Matrix Spike Duplicate 11 pCi/L			90	70	130	0.9	24.7	04/29/08 15:46
Sample ID: MB-RA226-2735 Radium 226	Method Blank 0.3 pCi/L								04/29/08 15:46
Sample ID: LCS-RA226-2735 Radium 226	Laboratory Control Sample 4.8 pCi/L			72	70	130			04/29/08 15:46
Method: E907.0							Batch: C_18234		
Sample ID: R08040058-001I Thorium 230	Sample Matrix Spike 10.3 pCi/L		0.20	83	70	130			04/09/08 16:00
Sample ID: R08040058-001I Thorium 230	Sample Matrix Spike Duplicate 11.3 pCi/L		0.20	90	70	130	8.9	30	04/09/08 16:00
Sample ID: LCS-R99603 Thorium 230	Laboratory Control Sample 50.8 pCi/L		0.20	103	70	130			04/09/08 16:00
Sample ID: MB-R99603 Thorium 230	Method Blank 1 pCi/L								04/09/08 16:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R100081		
Sample ID: LCS-R100081	Laboratory Control Sample								
Thorium 230	6.90	pCi/L	0.20	99	70	130			04/14/08 15:00
Sample ID: R08040058-001H	Sample Matrix Spike								
Thorium 230	16.0	pCi/L	0.20	99	70	130			04/14/08 15:00
Sample ID: R08040058-001H	Sample Matrix Spike Duplicate								
Thorium 230	14.7	pCi/L	0.20	90	70	130	8.5	30	04/14/08 15:00
Sample ID: MB-R100081	Method Blank								
Thorium 230	1E-06	pCi/L							U
Method: E909.0M							Batch: C_18234		
Sample ID: C08040192-002IMS	Sample Matrix Spike								
Lead 210	1200	pCi/L	1.0	104	70	130			04/10/08 11:00
Sample ID: C08040192-002IMSD	Sample Matrix Spike Duplicate								
Lead 210	980	pCi/L	1.0	82	70	130	23	30	04/10/08 11:00
Sample ID: MB-R100050	Method Blank								
Lead 210		pCi/L							U
Sample ID: LCS-R100050	Laboratory Control Sample								
Lead 210	110	pCi/L	1.0	90	70	130			04/10/08 11:00
Method: E909.0M							Batch: C_R100194		
Sample ID: C08040254-004BDUP	Sample Duplicate								
Lead 210	ND	pCi/L	1.0				0.0	30	04/11/08 09:45
Sample ID: R08040058-001H	Sample Matrix Spike								
Lead 210	600	pCi/L	1.0	101	70	130			04/11/08 09:45
Sample ID: R08040058-001H	Sample Matrix Spike Duplicate								
Lead 210	590	pCi/L	1.0	100	70	130	1.2	30	04/11/08 09:45
Sample ID: MB-R100194	Method Blank								
Lead 210		pCi/L							U
Sample ID: LCS-R100194	Laboratory Control Sample								
Lead 210	120	pCi/L	1.0	104	70	130			04/11/08 09:45

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040058

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_18234		
Sample ID: C08040246-003FMS Polonium 210	Sample Matrix Spike 88	pCi/L	1.0	99	70	130			04/29/08 15:30
Sample ID: C08040246-003FMSD Polonium 210	Sample Matrix Spike Duplicate 87	pCi/L	1.0	98	70	130	1.6	30	04/29/08 15:30
Sample ID: LCS-18234 Polonium 210	Laboratory Control Sample 180	pCi/L	1.0	101	70	130			04/29/08 15:30
Sample ID: MB-18234 Polonium 210	Method Blank 2	pCi/L							04/29/08 15:30
Method: RMO-3008							Batch: C_R99716		
Sample ID: R08040058-001H Polonium 210	Sample Matrix Spike 190	pCi/L	1.0	108	70	130			04/08/08 13:00
Sample ID: R08040058-001H Polonium 210	Sample Matrix Spike Duplicate 180	pCi/L	1.0	101	70	130	6.2	30	04/08/08 13:00
Sample ID: LCS-R99716 Polonium 210	Laboratory Control Sample 91	pCi/L	1.0	104	70	130			04/08/08 13:00
Sample ID: MB-R99716 Polonium 210	Method Blank 0.8	pCi/L							04/08/08 13:00 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESTER		Project Name, PWS, Permit, Etc. Power Tech Dam, Burkak		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESTER		Contact Name: Cory Foreman		Email:	Sampler: (Please Print) Eric Krantz
Invoice Address: RESTER		Invoice Contact & Phone: 11		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - ELL must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NE/LAC				Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
ANALYSIS REQUESTED				SEE ATTACHED	
Normal Turnaround (TAT)				RUSH	
Comments: Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page				Shipped by: Cooler Idet: Receipt Temp 3.2 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal Y N Intact Y N Signature Y N Match Y N	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	
1 Power Band SW 688		4/2/08	18:07	W	etc
2					
3					
4					
5					
6					
7					
8					
9					
10					
Custody Record MUST be Signed		Relinquished by (print): Eric Krantz	Date/Time: 4/5/08 09:10	Signature: <i>[Signature]</i>	Received by Laboratory: Eric Krantz
		Relinquished by (print):	Date/Time:	Signature:	Date/Time: 4-5-08 9:10
		Relinquished by (print):	Date/Time:	Signature:	Date/Time: 4-5-08 9:10

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

June 24, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08040250 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 7 samples from RESPEC Inc on 4/22/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08040250-001	DewBurd GW694	04/21/08 12:24	04/22/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrite Nitrogen, Nitrate + Nitrite Nitrogen, Nitrate Only Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08040250-002	DewBurd GW694	04/21/08 12:30	04/22/08	Aqueous	Same As Above
R08040250-003	DewBurd GW622	04/21/08 15:28	04/22/08	Aqueous	Same As Above
R08040250-004	DewBurd GW615	04/21/08 16:16	04/22/08	Aqueous	Same As Above
R08040250-005	DewBurd GW689	04/21/08 19:50	04/22/08	Aqueous	Same As Above
R08040250-006	DewBurd GW681	04/21/08 20:06	04/22/08	Aqueous	Same As Above
R08040250-007	DewBurd GW680	04/21/08 21:21	04/22/08	Aqueous	Same As Above



As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-001
 Client Sample ID: DewBurd GW694

Report Date: 06/24/08
 Collection Date: 04/21/08 12:24
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	202	mg/L		5		1	A2320 B	04/23/08 08:47/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/23/08 08:47/mb
Bicarbonate as HCO3	246	mg/L		5		1	A2320 B	04/23/08 08:47/mb
Calcium	97.0	mg/L		0.5		2	E200.7	05/05/08 13:59/eli-c
Chloride	9	mg/L		1		5	E300.0	05/10/08 19:49/eli-g
Fluoride	0.2	mg/L		0.1		5	E300.0	05/10/08 19:49/eli-g
Magnesium	37.6	mg/L		0.5		2	E200.7	05/05/08 13:59/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	04/28/08 15:55/jmh
Potassium	13.0	mg/L		0.5		2	E200.7	05/05/08 13:59/eli-c
Silica	8.4	mg/L		0.5		2	E200.7	05/05/08 13:59/eli-c
Sodium	176	mg/L		0.5		2	E200.7	05/05/08 13:59/eli-c
Sulfate	512	mg/L		1		5	E300.0	05/10/08 19:49/eli-g
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1370	umhos/cm		5.0		1	A2510 B	04/28/08 12:37/tb
Oxidation-Reduction Potential	360	mV				1	A2580 B	04/24/08 00:00/tb
pH	7.94	s.u.		0.01		1	A4500-H B	04/28/08 10:29/tb
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C	04/22/08 13:58/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/05/08 13:59/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	05/05/08 22:29/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/05/08 22:29/eli-c
Boron	ND	mg/L		0.1		2	E200.7	05/05/08 13:59/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/05/08 22:29/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/05/08 13:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/05/08 22:29/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	05/05/08 13:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/05/08 22:29/eli-c
Manganese	0.15	mg/L		0.01		2	E200.7	05/05/08 13:59/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/05/08 22:29/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/05/08 13:59/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/05/08 22:29/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/29/08 16:27/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/06/08 12:06/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/05/08 22:29/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	05/05/08 22:29/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-001
 Client Sample ID: DewBurd GW694

Report Date: 06/24/08
 Collection Date: 04/21/08 12:24
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			2	E200.7	05/05/08 13:59/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	05/05/08 13:59/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	05/05/08 05:25/eli-c
NUTRIENT PARAMETERS									
Nitrogen, Nitrate as N	ND	mg/L		0.05			1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05			1	E353.2	04/23/08 19:30/jmh
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/29/08 13:01/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/29/08 16:27/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	19.2	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Alpha precision (±)	3.4	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Alpha MDC	3.4	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Beta	15.7	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Beta precision (±)	2.6	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Beta MDC	3.9	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Lead 210	0.0	pCi/L	U	1.0			1	E909.0M	05/21/08 07:45/eli-c
Lead 210 precision (±)	8.3	pCi/L					1	E909.0M	05/21/08 07:45/eli-c
Polonium 210	1.4	pCi/L		1.0			1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L					1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	4.2	pCi/L					1	E903.0	05/13/08 08:49/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	05/13/08 08:49/eli-c
Radium 226 MDC	0.1	pCi/L					1	E903.0	05/13/08 08:49/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	0.0	pCi/L	U	1.0			1	E909.0M	05/16/08 07:00/eli-c
Lead 210 precision (±)	0.9	pCi/L					1	E909.0M	05/16/08 07:00/eli-c
Polonium 210	0.2	pCi/L	U	1.0			1	RMO-3008	05/01/08 14:15/eli-c
Polonium 210 precision (±)	0.38	pCi/L					1	RMO-3008	05/01/08 14:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-001
 Client Sample ID: DewBurd GW694

Report Date: 06/24/08
 Collection Date: 04/21/08 12:24
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.4	pCi/L	U				1	E903.0	05/06/08 13:38/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	05/06/08 13:38/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	05/06/08 13:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	05/01/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	05/01/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	251	pCi/L		100			1	D5072-92	04/24/08 13:29/eli-c
Radon 222 precision (±)	60.4	pCi/L					1	D5072-92	04/24/08 13:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/01/08 02:59/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	05/01/08 02:59/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/01/08 02:59/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/01/08 02:59/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/05/08 16:19/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/01/08 02:59/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/01/08 02:59/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/01/08 02:59/eli-c
Iron	0.14	mg/L		0.03			2	E200.7	05/05/08 16:19/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/01/08 02:59/eli-c
Manganese	0.15	mg/L		0.01			1	E200.8	05/01/08 02:59/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	05/06/08 16:31/eli-b
Mercury	ND	mg/L		0.001			1	E200.8	05/01/08 02:59/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/01/08 02:59/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/01/08 02:59/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/01/08 02:59/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/01/08 02:59/eli-c
Strontium	2.8	mg/L		0.1			1	E200.8	05/01/08 02:59/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/01/08 02:59/eli-c
Uranium	0.0006	mg/L		0.0003			1	E200.8	05/01/08 02:59/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/01/08 02:59/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.20						1	A1030 E	06/17/08 00:00/ADM
Anions	15.0	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	15.9	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	988	mg/L					1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040250-001
Client Sample ID: DewBurd GW694

Report Date: 06/24/08
Collection Date: 04/21/08 12:24
Date Received: 04/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	1.01						1	A1030 E	06/17/08 00:00/ADM

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-002
 Client Sample ID: DewBurd GW694

Report Date: 06/24/08
 Collection Date: 04/21/08 12:30
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
MAJOR IONS								
Alkalinity, Total as CaCO3	204	mg/L		5		1	A2320 B	04/23/08 08:50/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/23/08 08:50/mb
Bicarbonate as HCO3	249	mg/L		5		1	A2320 B	04/23/08 08:50/mb
Calcium	98.8	mg/L		0.5		2	E200.7	05/05/08 14:02/eli-c
Chloride	9	mg/L		1		5	E300.0	05/10/08 20:01/eli-g
Fluoride	0.2	mg/L		0.1		5	E300.0	05/10/08 20:01/eli-g
Magnesium	38.4	mg/L		0.5		2	E200.7	05/05/08 14:02/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	04/28/08 15:56/jmh
Potassium	13.5	mg/L		0.5		2	E200.7	05/05/08 14:02/eli-c
Silica	8.3	mg/L		0.5		2	E200.7	05/05/08 14:02/eli-c
Sodium	180	mg/L		0.5		2	E200.7	05/05/08 14:02/eli-c
Sulfate	511	mg/L		1		5	E300.0	05/10/08 20:01/eli-g
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1380	umhos/cm		5.0		1	A2510 B	04/28/08 12:39/tb
Oxidation-Reduction Potential	350	mV				1	A2580 B	04/24/08 00:00/tb
pH	7.84	s.u.		0.01		1	A4500-H B	04/28/08 10:30/tb
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	990	mg/L		5		1	A2540 C	04/22/08 13:58/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/05/08 14:02/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	05/05/08 22:36/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/05/08 22:36/eli-c
Boron	ND	mg/L		0.1		2	E200.7	05/05/08 14:02/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/05/08 22:36/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/05/08 14:02/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/05/08 22:36/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/05/08 14:02/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/05/08 22:36/eli-c
Manganese	0.15	mg/L		0.01		2	E200.7	05/05/08 14:02/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/05/08 22:36/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/05/08 14:02/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/05/08 22:36/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/29/08 16:38/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/06/08 12:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/05/08 22:36/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	05/05/08 22:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-002
 Client Sample ID: DewBurd GW694

Report Date: 06/24/08
 Collection Date: 04/21/08 12:30
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		2	E200.7	05/05/08 14:02/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/05/08 14:02/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/05/08 05:30/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	ND	mg/L		0.05		1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	04/23/08 19:32/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/29/08 13:12/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/29/08 16:38/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	18.1	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Alpha precision (±)	3.5	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Alpha MDC	3.6	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Beta	16.2	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Beta precision (±)	2.6	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Beta MDC	4.0	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Lead 210	-2.4	pCi/L	U	1.0		1	E909.0M	05/21/08 07:45/eli-c
Lead 210 precision (±)	8.1	pCi/L				1	E909.0M	05/21/08 07:45/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	3.7	pCi/L				1	E903.0	05/13/08 08:49/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	05/13/08 08:49/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/13/08 08:49/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2.2	pCi/L	U	1.0		1	E909.0M	05/16/08 07:00/eli-c
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	05/16/08 07:00/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008	05/01/08 14:15/eli-c
Polonium 210 precision (±)	0.55	pCi/L				1	RMO-3008	05/01/08 14:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-002
 Client Sample ID: DewBurd GW694

Report Date: 06/24/08
 Collection Date: 04/21/08 12:30
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.09	pCi/L	U				1	E903.0	05/06/08 13:38/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	05/06/08 13:38/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	05/06/08 13:38/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	05/01/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	05/01/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	250	pCi/L		100			1	D5072-92	04/24/08 13:29/eli-c
Radon 222 precision (±)	60.4	pCi/L					1	D5072-92	04/24/08 13:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/01/08 03:06/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	05/01/08 03:06/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/01/08 03:06/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/01/08 03:06/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/05/08 16:32/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/01/08 03:06/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/01/08 03:06/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/01/08 03:06/eli-c
Iron	0.12	mg/L		0.03			2	E200.7	05/05/08 16:32/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/01/08 03:06/eli-c
Manganese	0.15	mg/L		0.01			1	E200.8	05/01/08 03:06/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/01/08 03:06/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	05/06/08 16:33/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	05/01/08 03:06/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/01/08 03:06/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/01/08 03:06/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/01/08 03:06/eli-c
Strontium	2.8	mg/L		0.1			1	E200.8	05/01/08 03:06/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/01/08 03:06/eli-c
Uranium	0.0006	mg/L		0.0003			1	E200.8	05/01/08 03:06/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/01/08 03:06/eli-c
DATA QUALITY									
A/C Balance (± 5)	4.23						1	A1030 E	06/17/08 00:00/ADM
Anions	15.0	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	16.3	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	996	mg/L					1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040250-002
Client Sample ID: DewBurd GW694

Report Date: 06/24/08
Collection Date: 04/21/08 12:30
Date Received: 04/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-003
 Client Sample ID: DewBurd GW622

Report Date: 06/24/08
 Collection Date: 04/21/08 15:28
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	180	mg/L		5			1	A2320 B	04/23/08 08:54/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	04/23/08 08:54/mb
Bicarbonate as HCO3	219	mg/L		5			1	A2320 B	04/23/08 08:54/mb
Calcium	87.6	mg/L		0.5			2	E200.7	05/05/08 14:05/eli-c
Chloride	10	mg/L		1			5	E300.0	05/10/08 20:13/eli-g
Fluoride	0.4	mg/L		0.1			5	E300.0	05/10/08 20:13/eli-g
Magnesium	32.0	mg/L		0.5			2	E200.7	05/05/08 14:05/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	04/28/08 15:59/jmh
Potassium	10.3	mg/L		0.5			2	E200.7	05/05/08 14:05/eli-c
Silica	7.5	mg/L		0.5			2	E200.7	05/05/08 14:05/eli-c
Sodium	175	mg/L		0.5			2	E200.7	05/05/08 14:05/eli-c
Sulfate	487	mg/L		1			5	E300.0	05/10/08 20:13/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1330	umhos/cm		5.0			1	A2510 B	04/28/08 12:29/tb
Oxidation-Reduction Potential	340	mV					1	A2580 B	04/24/08 00:00/tb
pH	7.85	s.u.		0.01			1	A4500-H B	04/28/08 10:32/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10			1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5			1	A2540 C	04/22/08 13:59/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	05/05/08 14:05/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	05/05/08 22:42/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/05/08 22:42/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/05/08 14:05/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/05/08 22:42/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/05/08 14:05/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/05/08 22:42/eli-c
Iron	0.03	mg/L		0.03			2	E200.7	05/05/08 14:05/eli-c
Lead	0.001	mg/L		0.001			1	E200.8	05/05/08 22:42/eli-c
Manganese	0.18	mg/L		0.01			2	E200.7	05/05/08 14:05/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/05/08 22:42/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	05/05/08 14:05/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/05/08 22:42/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	04/29/08 16:40/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/06/08 12:19/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	05/05/08 22:42/eli-c
Uranium	0.0054	mg/L		0.0003			1	E200.8	05/05/08 22:42/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040250-003
Client Sample ID: DewBurd GW622

Report Date: 06/24/08
Collection Date: 04/21/08 15:28
Date Received: 04/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			2	E200.7	05/05/08 14:05/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	05/05/08 14:05/eli-c
METALS - SUSPENDED									
Uranium	0.0008	mg/L		0.0003			1	E200.8	05/05/08 05:34/eli-c
NUTRIENT PARAMETERS									
Nitrogen, Nitrate as N	0.08	mg/L		0.05			1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05			1	E353.2	04/23/08 19:34/jmh
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/29/08 13:14/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/29/08 16:40/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	22.6	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Alpha precision (±)	3.5	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Alpha MDC	3.2	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Beta	16.2	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Beta precision (±)	2.6	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Beta MDC	3.9	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Lead 210	-4.1	pCi/L	U	1.0			1	E909.0M	05/21/08 07:45/eli-c
Lead 210 precision (±)	8.1	pCi/L					1	E909.0M	05/21/08 07:45/eli-c
Polonium 210	1.1	pCi/L		1.0			1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.0	pCi/L					1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	2.7	pCi/L					1	E903.0	05/13/08 08:49/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	05/13/08 08:49/eli-c
Radium 226 MDC	0.1	pCi/L					1	E903.0	05/13/08 08:49/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	0.0	pCi/L	U	1.0			1	E909.0M	05/16/08 07:00/eli-c
Lead 210 precision (±)	0.6	pCi/L					1	E909.0M	05/16/08 07:00/eli-c
Polonium 210	2.8	pCi/L		1.0			1	RMO-3008	05/01/08 14:15/eli-c
Polonium 210 precision (±)	1.7	pCi/L					1	RMO-3008	05/01/08 14:15/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-003
 Client Sample ID: DewBurd GW622

Report Date: 06/24/08
 Collection Date: 04/21/08 15:28
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	0.9	pCi/L					1	E903.0	05/06/08 13:38/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	05/06/08 13:38/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	05/06/08 13:38/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	05/01/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	05/01/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1090	pCi/L		100			1	D5072-92	04/24/08 13:29/eli-c
Radon 222 precision (±)	69.4	pCi/L					1	D5072-92	04/24/08 13:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/01/08 03:12/eli-c
Arsenic	0.006	mg/L		0.001			1	E200.8	05/01/08 03:12/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/01/08 03:12/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/01/08 03:12/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/05/08 16:36/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/01/08 03:12/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/01/08 03:12/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/01/08 03:12/eli-c
Iron	7.34	mg/L		0.03			2	E200.7	05/05/08 16:36/eli-c
Lead	0.026	mg/L		0.001			1	E200.8	05/01/08 03:12/eli-c
Manganese	0.23	mg/L		0.01			1	E200.8	05/01/08 03:12/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/01/08 03:12/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	05/06/08 16:36/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	05/01/08 03:12/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/01/08 03:12/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/01/08 03:12/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/01/08 03:12/eli-c
Strontium	1.6	mg/L		0.1			1	E200.8	05/01/08 03:12/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/01/08 03:12/eli-c
Uranium	0.0065	mg/L		0.0003			1	E200.8	05/01/08 03:12/eli-c
Zinc	0.22	mg/L		0.01			1	E200.8	05/01/08 03:12/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.01						1	A1030 E	06/17/08 00:00/ADM
Anions	14.0	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	14.9	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	931	mg/L					1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040250-003
Client Sample ID: DewBurd GW622

Report Date: 06/24/08
Collection Date: 04/21/08 15:28
Date Received: 04/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.01					1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-004
 Client Sample ID: DewBurd GW615

Report Date: 06/24/08
 Collection Date: 04/21/08 16:16
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	136	mg/L		5			1	A2320 B	04/23/08 08:59/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	04/23/08 08:59/mb
Bicarbonate as HCO3	166	mg/L		5			1	A2320 B	04/23/08 08:59/mb
Calcium	73.0	mg/L		0.5			2	E200.7	05/05/08 14:09/eli-c
Chloride	4	mg/L		1			5	E300.0	05/10/08 20:24/eli-g
Fluoride	0.4	mg/L		0.1			5	E300.0	05/10/08 20:24/eli-g
Magnesium	22.9	mg/L		0.5			2	E200.7	05/05/08 14:09/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	04/28/08 16:03/jmh
Potassium	8.7	mg/L		0.5			2	E200.7	05/05/08 14:09/eli-c
Silica	7.8	mg/L		0.5			2	E200.7	05/05/08 14:09/eli-c
Sodium	132	mg/L		0.5			2	E200.7	05/05/08 14:09/eli-c
Sulfate	371	mg/L		1			5	E300.0	05/10/08 20:24/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1040	umhos/cm		5.0			1	A2510 B	04/28/08 12:41/tb
Oxidation-Reduction Potential	300	mV					1	A2580 B	04/24/08 00:00/tb
pH	7.43	s.u.		0.01			1	A4500-H B	04/28/08 10:33/tb
Sodium Adsorption Ratio (SAR)	3.5	unitless		0.10			1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	750	mg/L		5			1	A2540 C	04/22/08 14:00/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	05/05/08 14:09/eli-c
Arsenic	0.020	mg/L		0.001			1	E200.8	05/05/08 22:49/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/05/08 22:49/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/05/08 14:09/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/05/08 22:49/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/05/08 14:09/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/05/08 22:49/eli-c
Iron	0.79	mg/L		0.03			2	E200.7	05/05/08 14:09/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/05/08 22:49/eli-c
Manganese	0.07	mg/L		0.01			2	E200.7	05/05/08 14:09/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/05/08 22:49/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	05/05/08 14:09/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/05/08 22:49/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	04/29/08 16:43/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/06/08 12:26/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	05/05/08 22:49/eli-c
Uranium	0.0025	mg/L		0.0003			1	E200.8	05/05/08 22:49/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-004
 Client Sample ID: DewBurd GW615

Report Date: 06/24/08
 Collection Date: 04/21/08 16:16
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		2	E200.7	05/05/08 14:09/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/05/08 14:09/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/05/08 05:38/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	0.06	mg/L		0.05		1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	04/23/08 19:36/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/29/08 13:16/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/29/08 16:43/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	15.1	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Alpha MDC	2.5	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Beta	12.1	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Beta MDC	3.4	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	05/21/08 07:45/eli-c
Lead 210 precision (±)	8.2	pCi/L				1	E909.0M	05/21/08 07:45/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	0.90	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	2.0	pCi/L				1	E903.0	05/13/08 08:49/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	05/13/08 08:49/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/13/08 08:49/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3.2	pCi/L	U	1.0		1	E909.0M	05/16/08 07:00/eli-c
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	05/16/08 07:00/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	05/01/08 14:15/eli-c
Polonium 210 precision (±)	0.52	pCi/L				1	RMO-3008	05/01/08 14:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-004
 Client Sample ID: DewBurd GW615

Report Date: 06/24/08
 Collection Date: 04/21/08 16:16
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.2	pCi/L	U			1	E903.0	05/06/08 15:27/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	05/06/08 15:27/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	05/06/08 15:27/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	05/01/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	05/01/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1180	pCi/L		100		1	D5072-92	04/24/08 13:29/eli-c
Radon 222 precision (±)	70.1	pCi/L				1	D5072-92	04/24/08 13:29/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	05/01/08 03:19/eli-c
Arsenic	0.024	mg/L		0.001		1	E200.8	05/01/08 03:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/01/08 03:19/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	05/01/08 03:19/eli-c
Boron	ND	mg/L		0.1		2	E200.7	05/05/08 16:39/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/01/08 03:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/01/08 03:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/01/08 03:19/eli-c
Iron	1.35	mg/L		0.03		2	E200.7	05/05/08 16:39/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/01/08 03:19/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	05/01/08 03:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/01/08 03:19/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	05/06/08 16:38/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	05/01/08 03:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/01/08 03:19/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	05/01/08 03:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/01/08 03:19/eli-c
Strontium	1.4	mg/L		0.1		1	E200.8	05/01/08 03:19/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	05/01/08 03:19/eli-c
Uranium	0.0025	mg/L		0.0003		1	E200.8	05/01/08 03:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/01/08 03:19/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.26					1	A1030 E	06/17/08 00:00/ADM
Anions	10.6	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	11.5	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	715	mg/L				1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040250-004
Client Sample ID: DewBurd GW615

Report Date: 06/24/08
Collection Date: 04/21/08 16:16
Date Received: 04/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.05					1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-005
 Client Sample ID: DewBurd GW689

Report Date: 06/24/08
 Collection Date: 04/21/08 19:50
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	04/23/08 09:02/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/23/08 09:02/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	04/23/08 09:02/mb
Calcium	48.5	mg/L		0.5		2	E200.7	05/05/08 14:12/eli-c
Chloride	5	mg/L		1		5	E300.0	05/10/08 20:59/eli-g
Fluoride	0.5	mg/L		0.1		5	E300.0	05/10/08 20:59/eli-g
Magnesium	16.8	mg/L		0.5		2	E200.7	05/05/08 14:12/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/28/08 16:04/jmh
Potassium	7.9	mg/L		0.5		2	E200.7	05/05/08 14:12/eli-c
Silica	8.0	mg/L		0.5		2	E200.7	05/05/08 14:12/eli-c
Sodium	180	mg/L		0.5		2	E200.7	05/05/08 14:12/eli-c
Sulfate	374	mg/L		1		5	E300.0	05/10/08 20:59/eli-g
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1110	umhos/cm		5.0		1	A2510 B	04/28/08 12:43/tb
Oxidation-Reduction Potential	300	mV				1	A2580 B	04/24/08 00:00/tb
pH	8.02	s.u.		0.01		1	A4500-H B	04/28/08 10:34/tb
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	760	mg/L		5		1	A2540 C	04/22/08 14:01/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/05/08 14:12/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/05/08 22:56/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/05/08 22:56/eli-c
Boron	ND	mg/L		0.1		2	E200.7	05/05/08 14:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/05/08 22:56/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/05/08 14:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/05/08 22:56/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/05/08 14:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/05/08 22:56/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	05/05/08 14:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/05/08 22:56/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/05/08 14:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/05/08 22:56/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/29/08 16:45/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/06/08 12:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/05/08 22:56/eli-c
Uranium	0.0037	mg/L		0.0003		1	E200.8	05/05/08 22:56/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-005
 Client Sample ID: DewBurd GW689

Report Date: 06/24/08
 Collection Date: 04/21/08 19:50
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		2 E200.7	05/05/08 14:12/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	05/05/08 14:12/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	05/05/08 05:54/eli-c
NUTRIENT PARAMETERS							
Nitrogen, Nitrate as N	ND	mg/L		0.05		1 E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1 E353.2	04/23/08 19:39/jmh
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	04/29/08 13:18/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	04/29/08 16:45/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	25.5	pCi/L				1 E900.0	05/09/08 14:29/eli-c
Gross Alpha precision (±)	3.2	pCi/L				1 E900.0	05/09/08 14:29/eli-c
Gross Alpha MDC	2.6	pCi/L				1 E900.0	05/09/08 14:29/eli-c
Gross Beta	13.2	pCi/L				1 E900.0	05/09/08 14:29/eli-c
Gross Beta precision (±)	2.3	pCi/L				1 E900.0	05/09/08 14:29/eli-c
Gross Beta MDC	3.4	pCi/L				1 E900.0	05/09/08 14:29/eli-c
Lead 210	-2.4	pCi/L	U	1.0		1 E909.0M	05/21/08 07:45/eli-c
Lead 210 precision (±)	8.1	pCi/L				1 E909.0M	05/21/08 07:45/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1 RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1 RMO-3008	05/06/08 17:00/eli-c
Radium 226	4.2	pCi/L				1 E903.0	05/13/08 08:49/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	05/13/08 08:49/eli-c
Radium 226 MDC	0.1	pCi/L				1 E903.0	05/13/08 08:49/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	04/29/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.3	pCi/L	U	1.0		1 E909.0M	05/16/08 07:00/eli-c
Lead 210 precision (±)	0.5	pCi/L				1 E909.0M	05/16/08 07:00/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1 RMO-3008	05/01/08 14:15/eli-c
Polonium 210 precision (±)	0.71	pCi/L				1 RMO-3008	05/01/08 14:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-005
 Client Sample ID: DewBurd GW689

Report Date: 06/24/08
 Collection Date: 04/21/08 19:50
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	0.02	pCi/L	U				1	E903.0	05/06/08 15:27/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	05/06/08 15:27/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	05/06/08 15:27/eli-c
Thorium 230	0.3	pCi/L		0.2			1	E907.0	05/01/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	05/01/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1540	pCi/L		100			1	D5072-92	04/24/08 13:29/eli-c
Radon 222 precision (±)	72.3	pCi/L					1	D5072-92	04/24/08 13:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/01/08 03:26/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	05/01/08 03:26/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/01/08 03:26/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/01/08 03:26/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/05/08 16:43/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/01/08 03:26/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/01/08 03:26/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/01/08 03:26/eli-c
Iron	0.52	mg/L		0.03			2	E200.7	05/05/08 16:43/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/01/08 03:26/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	05/01/08 03:26/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/01/08 03:26/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	05/06/08 16:43/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	05/01/08 03:26/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/01/08 03:26/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/01/08 03:26/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/01/08 03:26/eli-c
Strontium	1.0	mg/L		0.1			1	E200.8	05/01/08 03:26/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/01/08 03:26/eli-c
Uranium	0.0040	mg/L		0.0003			1	E200.8	05/01/08 03:26/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/01/08 03:26/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.98						1	A1030 E	06/17/08 00:00/ADM
Anions	10.9	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	11.8	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	744	mg/L					1	A1030 E	06/17/08 00:00/ADM

Report: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 19 of 28
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040250-005
Client Sample ID: DewBurd GW689

Report Date: 06/24/08
Collection Date: 04/21/08 19:50
Date Received: 04/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.02					1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-006
 Client Sample ID: DewBurd GW681

Report Date: 06/24/08
 Collection Date: 04/21/08 20:06
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B 04/23/08 09:05/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 04/23/08 09:05/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B 04/23/08 09:05/mb
Calcium	62.0	mg/L		0.5		2	E200.7 05/05/08 14:32/eli-c
Chloride	13	mg/L		1		5	E300.0 05/10/08 21:34/eli-g
Fluoride	0.4	mg/L		0.1		5	E300.0 05/10/08 21:34/eli-g
Magnesium	25.0	mg/L		0.5		2	E200.7 05/05/08 14:32/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 04/28/08 16:05/jmh
Potassium	10	mg/L		0.5		2	E200.7 05/05/08 14:32/eli-c
Silica	7.2	mg/L		0.5		2	E200.7 05/05/08 14:32/eli-c
Sodium	204	mg/L		0.5		2	E200.7 05/05/08 14:32/eli-c
Sulfate	466	mg/L		1		5	E300.0 05/10/08 21:34/eli-g
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1330	umhos/cm		5.0		1	A2510 B 04/28/08 12:44/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B 04/24/08 00:00/tb
pH	8.02	s.u.		0.01		1	A4500-H B 04/28/08 10:35/tb
Sodium Adsorption Ratio (SAR)	5.5	unitless		0.10		1	Calculation 06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5		1	A2540 C 04/22/08 14:01/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 05/05/08 14:32/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 05/05/08 23:03/eli-c
Barium	ND	mg/L		0.1		1	E200.8 05/05/08 23:03/eli-c
Boron	ND	mg/L		0.1		2	E200.7 05/05/08 14:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 05/05/08 23:03/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 05/05/08 14:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8 05/05/08 23:03/eli-c
Iron	ND	mg/L		0.03		2	E200.7 05/05/08 14:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8 05/05/08 23:03/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7 05/05/08 14:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 05/05/08 23:03/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 05/05/08 14:32/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 05/05/08 23:03/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 04/29/08 16:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8 05/06/08 12:39/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 05/05/08 23:03/eli-c
Uranium	0.0098	mg/L		0.0003		1	E200.8 05/05/08 23:03/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-006
 Client Sample ID: DewBurd GW681

Report Date: 06/24/08
 Collection Date: 04/21/08 20:06
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		2	E200.7	05/05/08 14:32/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/05/08 14:32/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/05/08 05:59/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	ND	mg/L		0.05		1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	04/23/08 19:45/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/29/08 13:20/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/29/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1400	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Alpha precision (±)	23.2	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Alpha MDC	3.1	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Beta	430	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Beta precision (±)	6.6	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0	05/09/08 14:29/eli-c
Lead 210	49.9	pCi/L		1.0		1	E909.0M	05/21/08 07:45/eli-c
Lead 210 precision (±)	9.0	pCi/L				1	E909.0M	05/21/08 07:45/eli-c
Polonium 210	3.5	pCi/L		1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.7	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	377	pCi/L				1	E903.0	05/13/08 08:49/eli-c
Radium 226 precision (±)	3.4	pCi/L				1	E903.0	05/13/08 08:49/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/13/08 08:49/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	3400	pCi/L		20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	110	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	16.7	pCi/L		1.0		1	E909.0M	05/16/08 07:00/eli-c
Lead 210 precision (±)	2.2	pCi/L				1	E909.0M	05/16/08 07:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	05/01/08 14:15/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	05/01/08 14:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-006
 Client Sample ID: DewBurd GW681

Report Date: 06/24/08
 Collection Date: 04/21/08 20:06
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	0.2	pCi/L	U				1	E903.0	05/06/08 15:27/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	05/06/08 15:27/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	05/06/08 15:27/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	05/01/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	05/01/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	253000	pCi/L		100			1	D5072-92	04/24/08 13:29/eli-c
Radon 222 precision (±)	623	pCi/L					1	D5072-92	04/24/08 13:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/01/08 03:53/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	05/01/08 03:53/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/01/08 03:53/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/01/08 03:53/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/05/08 16:46/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/01/08 03:53/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/01/08 03:53/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/01/08 03:53/eli-c
Iron	ND	mg/L		0.03			2	E200.7	05/05/08 16:46/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/01/08 03:53/eli-c
Manganese	0.09	mg/L		0.01			1	E200.8	05/01/08 03:53/eli-c
Mercury	ND	mg/L		0.01			1	E200.8	05/01/08 03:53/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	05/06/08 16:50/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	05/01/08 03:53/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/01/08 03:53/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/01/08 03:53/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/01/08 03:53/eli-c
Strontium	1.2	mg/L		0.1			1	E200.8	05/01/08 03:53/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/01/08 03:53/eli-c
Uranium	0.0102	mg/L		0.0003			1	E200.8	05/01/08 03:53/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/01/08 03:53/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.67						1	A1030 E	06/17/08 00:00/ADM
Anions	13.5	meq/L					1	A1030 E	06/17/08 00:00/ADM
Cations	14.3	meq/L					1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	903	mg/L					1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040250-006
Client Sample ID: DewBurd GW681

Report Date: 06/24/08
Collection Date: 04/21/08 20:06
Date Received: 04/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.04					1	A1030 E	06/17/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-007
 Client Sample ID: DewBurd GW680

Report Date: 06/24/08
 Collection Date: 04/21/08 21:21
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	262	mg/L		5			1	A2320 B	04/23/08 09:09/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	04/23/08 09:09/mb
Bicarbonate as HCO3	319	mg/L		5			1	A2320 B	04/23/08 09:09/mb
Calcium	368	mg/L		0.5			2	E200.7	05/05/08 14:39/eli-c
Chloride	11	mg/L		1			5	E300.0	05/10/08 21:46/eli-g
Fluoride	0.3	mg/L		0.1			5	E300.0	05/10/08 21:46/eli-g
Magnesium	123	mg/L		0.5			2	E200.7	05/05/08 14:39/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	04/28/08 16:06/jmh
Potassium	19.2	mg/L		0.5			2	E200.7	05/05/08 14:39/eli-c
Silica	8.3	mg/L		0.5			2	E200.7	05/05/08 14:39/eli-c
Sodium	125	mg/L		0.5			2	E200.7	05/05/08 14:39/eli-c
Sulfate	1360	mg/L		1			10	E300.0	05/12/08 15:31/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2510	umhos/cm		5.0			1	A2510 B	04/28/08 12:48/tb
Oxidation-Reduction Potential	280	mV					1	A2580 B	04/24/08 00:00/tb
pH	7.56	s.u.		0.01			1	A4500-H B	04/28/08 10:37/tb
Sodium Adsorption Ratio (SAR)	1.4	unitless		0.10			1	Calculation	06/17/08 11:18/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5			1	A2540 C	04/22/08 14:02/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	05/05/08 14:39/eli-c
Arsenic	0.007	mg/L		0.001			1	E200.8	05/05/08 23:09/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/05/08 23:09/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	05/05/08 14:39/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/05/08 23:09/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/05/08 14:39/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/05/08 23:09/eli-c
Iron	0.25	mg/L		0.03			2	E200.7	05/05/08 14:39/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/05/08 23:09/eli-c
Manganese	0.42	mg/L		0.01			2	E200.7	05/05/08 14:39/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/05/08 23:09/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	05/05/08 14:39/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/05/08 23:09/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	04/29/08 16:49/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/06/08 12:46/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	05/05/08 23:09/eli-c
Uranium	0.0303	mg/L		0.0003			1	E200.8	05/05/08 23:09/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-007
 Client Sample ID: DewBurd GW680

Report Date: 06/24/08
 Collection Date: 04/21/08 21:21
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			2	E200.7	05/05/08 14:39/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	05/05/08 14:39/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	05/05/08 06:03/eli-c
NUTRIENT PARAMETERS									
Nitrogen, Nitrate as N	ND	mg/L		0.05			1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05			1	E353.2	04/23/08 19:52/jmh
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/29/08 13:23/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/29/08 16:49/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	4270	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Alpha precision (±)	62.3	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Alpha MDC	7.4	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Beta	1390	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Beta precision (±)	17.7	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Gross Beta MDC	9.1	pCi/L					1	E900.0	05/09/08 14:29/eli-c
Lead 210	32.0	pCi/L		1.0			1	E909.0M	05/21/08 07:45/eli-c
Lead 210 precision (±)	8.7	pCi/L					1	E909.0M	05/21/08 07:45/eli-c
Polonium 210	0.5	pCi/L	U	1.0			1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	0.80	pCi/L					1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	1230	pCi/L					1	E903.0	05/13/08 08:49/eli-c
Radium 226 precision (±)	5.8	pCi/L					1	E903.0	05/13/08 08:49/eli-c
Radium 226 MDC	0.1	pCi/L					1	E903.0	05/13/08 08:49/eli-c
Thorium 230	0.3	pCi/L		0.2			1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	1000	pCi/L		20			1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	62	pCi/L					1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	-1.0	pCi/L	U	1.0			1	E909.0M	05/16/08 07:00/eli-c
Lead 210 precision (±)	0.7	pCi/L					1	E909.0M	05/16/08 07:00/eli-c
Polonium 210	0.3	pCi/L	U	1.0			1	RMO-3008	05/01/08 14:15/eli-c
Polonium 210 precision (±)	0.40	pCi/L					1	RMO-3008	05/01/08 14:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040250-007
 Client Sample ID: DewBurd GW680

Report Date: 06/24/08
 Collection Date: 04/21/08 21:21
 Date Received: 04/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226	1.6	pCi/L				1	E903.0	05/06/08 15:27/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/06/08 15:27/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	05/06/08 15:27/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	05/01/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/01/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	81000	pCi/L		100		1	D5072-92	04/24/08 13:29/eli-c
Radon 222 precision (±)	371	pCi/L				1	D5072-92	04/24/08 13:29/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	05/01/08 04:00/eli-c
Arsenic	0.006	mg/L		0.001		1	E200.8	05/01/08 04:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/01/08 04:00/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	05/01/08 04:00/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	05/05/08 16:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/01/08 04:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/01/08 04:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/01/08 04:00/eli-c
Iron	0.29	mg/L		0.03		2	E200.7	05/05/08 16:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/01/08 04:00/eli-c
Manganese	0.44	mg/L		0.01		1	E200.8	05/01/08 04:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/01/08 04:00/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	05/06/08 16:53/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	05/01/08 04:00/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/01/08 04:00/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	05/01/08 04:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/01/08 04:00/eli-c
Strontium	7.3	mg/L		0.1		1	E200.8	05/01/08 04:00/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	05/01/08 04:00/eli-c
Uranium	0.0291	mg/L		0.0003		1	E200.8	05/01/08 04:00/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8	05/01/08 04:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.770					1	A1030 E	06/17/08 00:00/ADM
Anions	33.9	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	34.5	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	2190	mg/L				1	A1030 E	06/17/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040250-007
Client Sample ID: DewBurd GW680

Report Date: 06/24/08
Collection Date: 04/21/08 21:21
Date Received: 04/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.04					1	A1030 E	06/17/08 00:00/ADM

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080423A-ALK-SEL-W		
Sample ID: LCS1_080423A Alkalinity, Total as CaCO3	Laboratory Control Sample 980 mg/L		5.0	98	90	110			04/23/08 08:40
Sample ID: MBLK1_080423A Alkalinity, Total as CaCO3	Method Blank ND mg/L		3						04/23/08 08:43
Sample ID: R08040273-003AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 270 mg/L		5.0	100	80	120			04/23/08 09:25
Sample ID: R08040273-003AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 268 mg/L		5.0	98	80	120	0.7	10	04/23/08 09:29
Method: A2510 B							Batch: 080428_1_COND-PROBE-W		
Sample ID: LCS1-1_080428 Conductivity @ 25 C	Laboratory Control Sample 143 umhos/cm		5.0	95	90	110			04/28/08 11:49
Sample ID: LCS2-1_080428 Conductivity @ 25 C	Laboratory Control Sample 4960 umhos/cm		5.0	99	90	110			04/28/08 11:50
Sample ID: LCS_COND-1_080428 Conductivity @ 25 C	Laboratory Control Sample 1410 umhos/cm		5.0	100	90	110			04/28/08 11:51
Sample ID: MBLK-1_080428 Conductivity @ 25 C	Method Blank ND umhos/cm		5						04/28/08 11:52
Sample ID: R08040250-002ADUP Conductivity @ 25 C	Sample Duplicate 1380 umhos/cm		5.0				0.0	10	04/28/08 12:41
Method: A2540 C							Batch: 080422A-SLDS-TDS-W		
Sample ID: LCS1_080422A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 230 mg/L		5.0	110	90	110			04/22/08 13:53
Sample ID: MBLK1_080422A Solids, Total Dissolved TDS @ 180 C	Method Blank 10 mg/L		3						04/22/08 14:05
Sample ID: R08040250-007AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 2500 mg/L		5.0	119	80	120			04/22/08 14:03
Sample ID: R08040250-007AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 2500 mg/L		5.0	116	80	120	0.2	10	04/22/08 14:04

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Analytical Run: SUB-C100349		
Sample ID: 288-66-6	Initial Calibration Verification Standard								
Selenium-IV	0.050	mg/L	0.0010	100	90	110			04/29/08 12:37
Method: A3114 B							Batch: C_SE3114-080429B		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	6E-05						Run: SUB-C100349 04/29/08 12:43
Sample ID: 288-66-6	Laboratory Control Sample								
Selenium-IV	0.051	mg/L	0.0010	102	90	110			Run: SUB-C100349 04/29/08 12:45
Sample ID: R08040250-001E	Sample Matrix Spike								
Selenium-IV	0.047	mg/L	0.0010	94	85	115			Run: SUB-C100349 04/29/08 13:07
Sample ID: R08040250-001E	Sample Matrix Spike Duplicate								
Selenium-IV	0.048	mg/L	0.0010	96	85	115	2.7	10	Run: SUB-C100349 04/29/08 13:10
Sample ID: R08040287-001E	Sample Matrix Spike								
Selenium-IV	0.049	mg/L	0.0010	98	85	115			Run: SUB-C100349 04/29/08 13:31
Sample ID: R08040287-001E	Sample Matrix Spike Duplicate								
Selenium-IV	0.050	mg/L	0.0010	100	85	115	1.8	10	Run: SUB-C100349 04/29/08 13:34
Method: A3114 B							Batch: C_SE3114-080429D		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	6E-05						Run: SUB-C100378 04/29/08 16:10
Sample ID: 288-66-6	Laboratory Control Sample								
Selenium	0.053	mg/L	0.0010	107	90	110			Run: SUB-C100378 04/29/08 16:12
Sample ID: R08040250-001E	Sample Matrix Spike								
Selenium	0.054	mg/L	0.0010	109	85	115			Run: SUB-C100378 04/29/08 16:34
Sample ID: R08040250-001E	Sample Matrix Spike Duplicate								
Selenium	0.054	mg/L	0.0010	109	85	115	0.1	10	Run: SUB-C100378 04/29/08 16:36
Sample ID: R08040287-001E	Sample Matrix Spike								
Selenium	0.054	mg/L	0.0010	107	85	115			Run: SUB-C100378 04/29/08 16:58
Sample ID: R08040287-001E	Sample Matrix Spike Duplicate								
Selenium	0.052	mg/L	0.0010	105	85	115	2.3	10	Run: SUB-C100378 04/29/08 17:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080428_1_PH-W		
Sample ID: LCS_pH-1_080428	Laboratory Control Sample								
pH	6.93	s.u.	0.010	101	98.55	101.45			Run: PH_COND2-R_080428A 04/28/08 10:25
Method: A4500-NH3 G							Batch: A2008-04-28_2_NH3_01		
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						Run: TECHAA2-R_080428A 04/28/08 15:00
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	90	110			Run: TECHAA2-R_080428A 04/28/08 15:01
Sample ID: LFB-4	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.25	mg/L	0.10	100	90	110			Run: TECHAA2-R_080428A 04/28/08 15:02
Sample ID: R08040250-003BMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.32	mg/L	0.10	115	80	120			Run: TECHAA2-R_080428A 04/28/08 16:01
Sample ID: R08040250-003BMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.29	mg/L	0.10	104	80	120	8.9	10	Run: TECHAA2-R_080428A 04/28/08 16:02
Method: D5072-92							Batch: C_R100290		
Sample ID: C08041066-001ADUP	Sample Duplicate								
Radon 222	2010	pCi/L	100				3.5	30	Run: SUB-C100290 04/24/08 13:29
Sample ID: MB-R100290	Method Blank								
Radon 222	20	pCi/L							Run: SUB-C100290 04/24/08 13:29
Sample ID: LCS-R100290	Laboratory Control Sample								
Radon 222	304	pCi/L	100	95	70	130			Run: SUB-C100290 04/24/08 13:29

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18421
Sample ID: MB-18421	Method Blank								Run: SUB-C100675 05/05/08 16:12
Boron	ND	mg/L	0.006						
Iron	ND	mg/L	0.005						
Sample ID: LCS3-18421	Laboratory Control Sample								Run: SUB-C100675 05/05/08 16:15
Boron	0.498	mg/L	0.10	100	85	115			
Iron	2.52	mg/L	0.030	101	85	115			
Sample ID: R08040250-007D	Sample Matrix Spike								Run: SUB-C100675 05/05/08 16:53
Boron	0.597	mg/L	0.10	97	70	130			
Iron	2.81	mg/L	0.030	101	70	130			
Sample ID: R08040250-007D	Sample Matrix Spike Duplicate								Run: SUB-C100675 05/05/08 16:56
Boron	0.590	mg/L	0.10	96	70	130	1.2	20	
Iron	2.75	mg/L	0.030	99	70	130	2.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R100675		
Sample ID: MB-080505A	Method Blank		Run: SUB-C100675			05/05/08 10:34			
Silica	ND	mg/L	0.06						
Aluminum	ND	mg/L	0.008						
Boron	ND	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Chromium	0.003	mg/L	0.003						
Iron	0.006	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0004						
Molybdenum	ND	mg/L	0.01						
Potassium	ND	mg/L	0.08						
Sodium	ND	mg/L	0.06						
Vanadium	ND	mg/L	0.006						
Zinc	ND	mg/L	0.004						
Sample ID: LFB-080505A	Laboratory Fortified Blank		Run: SUB-C100675			05/05/08 10:37			
Silica	0.97	mg/L	0.10	97	85	125			
Aluminum	0.96	mg/L	0.10	96	85	125			
Boron	0.99	mg/L	0.10	99	85	125			
Calcium	55	mg/L	0.50	110	85	125			
Chromium	0.99	mg/L	0.050	99	85	125			
Iron	0.97	mg/L	0.030	97	85	125			
Magnesium	53	mg/L	0.50	107	85	125			
Manganese	0.95	mg/L	0.010	95	85	125			
Molybdenum	1.0	mg/L	0.10	100	85	125			
Potassium	50	mg/L	0.50	100	85	125			
Sodium	51	mg/L	0.50	102	85	125			
Vanadium	1.0	mg/L	0.10	103	85	125			
Zinc	1.0	mg/L	0.010	102	85	125			
Sample ID: C08040699-001KMS2	Sample Matrix Spike		Run: SUB-C100675			05/05/08 11:04			
Aluminum	4.44	mg/L	0.10	87	70	130			
Boron	4.80	mg/L	0.10	91	70	130			
Chromium	4.65	mg/L	0.050	91	70	130			
Iron	4.65	mg/L	0.030	90	70	130			
Manganese	4.70	mg/L	0.010	88	70	130			
Molybdenum	4.79	mg/L	0.10	94	70	130			
Vanadium	4.85	mg/L	0.10	95	70	130			
Zinc	4.90	mg/L	0.021	94	70	130			
Calcium	622	mg/L	1.0	91	70	130			
Magnesium	387	mg/L	1.0	91	70	130			
Potassium	251	mg/L	1.0	94	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R100675		
Sample ID: C08040699-001KMS2	Sample Matrix Spike			Run: SUB-C100675			05/05/08 11:04		
Silica	20.5	mg/L	0.29	74	70	130			
Sodium	364	mg/L	1.0	91	70	130			
Sample ID: C08040699-001KMSD2	Sample Matrix Spike Duplicate			Run: SUB-C100675			05/05/08 11:17		
Aluminum	4.85	mg/L	0.10	95	70	130	8.8	20	
Boron	5.27	mg/L	0.10	100	70	130	9.2	20	
Chromium	5.04	mg/L	0.050	99	70	130	8.1	20	
Iron	5.01	mg/L	0.030	97	70	130	7.5	20	
Manganese	5.07	mg/L	0.010	96	70	130	7.6	20	
Molybdenum	5.07	mg/L	0.10	100	70	130	5.8	20	
Vanadium	5.26	mg/L	0.10	103	70	130	8.3	20	
Zinc	5.24	mg/L	0.021	101	70	130	6.6	20	
Calcium	670	mg/L	1.0	110	70	130	7.5	20	
Magnesium	420	mg/L	1.0	104	70	130	8.2	20	
Potassium	268	mg/L	1.0	101	70	130	6.7	20	
Silica	22.2	mg/L	0.29	107	70	130	8.1	20	
Sodium	390	mg/L	1.0	102	70	130	6.9	20	
Sample ID: R08040250-005C	Sample Matrix Spike			Run: SUB-C100675			05/05/08 14:25		
Aluminum	1.92	mg/L	0.10	94	70	130			
Boron	2.08	mg/L	0.10	99	70	130			
Chromium	2.00	mg/L	0.050	98	70	130			
Iron	1.98	mg/L	0.030	97	70	130			
Manganese	1.97	mg/L	0.010	95	70	130			
Molybdenum	1.91	mg/L	0.10	94	70	130			
Vanadium	2.11	mg/L	0.10	104	70	130			
Zinc	2.10	mg/L	0.010	103	70	130			
Calcium	156	mg/L	1.0	105	70	130			
Magnesium	126	mg/L	1.0	108	70	130			
Potassium	110	mg/L	1.0	100	70	130			
Silica	9.99	mg/L	0.12	97	70	130			
Sodium	276	mg/L	1.0	94	70	130			
Sample ID: R08040250-005C	Sample Matrix Spike Duplicate			Run: SUB-C100675			05/05/08 14:28		
Aluminum	1.89	mg/L	0.10	93	70	130	1.7	20	
Boron	2.06	mg/L	0.10	98	70	130	0.8	20	
Chromium	1.97	mg/L	0.050	97	70	130	1.4	20	
Iron	1.95	mg/L	0.030	96	70	130	1.6	20	
Manganese	1.95	mg/L	0.010	94	70	130	1.2	20	
Molybdenum	1.90	mg/L	0.10	93	70	130	0.5	20	
Vanadium	2.08	mg/L	0.10	102	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 06/24/08

Project: Edgemont

Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R100675		
Sample ID: R08040250-005C	Sample Matrix Spike Duplicate			Run: SUB-C100675			05/05/08 14:28		
Zinc	2.06	mg/L	0.010	101	70	130	1.7	20	
Calcium	153	mg/L	1.0	102	70	130	1.8	20	
Magnesium	124	mg/L	1.0	105	70	130	2.0	20	
Potassium	108	mg/L	1.0	98	70	130	1.7	20	
Silica	10.0	mg/L	0.12	97	70	130	0.2	20	
Sodium	271	mg/L	1.0	89	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18421		
Sample ID: MB-18421	Method Blank		Run: SUB-C100440			05/01/08 01:04			
Antimony	0.0002	mg/L	0.0002						
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.001	mg/L	5E-05						
Copper	0.0007	mg/L	0.0001						
Lead	2E-05	mg/L							
Manganese	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	4E-05	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.0009	mg/L	0.0003						
Sample ID: LCS3-18421	Laboratory Control Sample		Run: SUB-C100440			05/01/08 01:11			
Antimony	0.518	mg/L	0.050	104	85	115			
Arsenic	0.512	mg/L	0.0010	102	85	115			
Barium	0.522	mg/L	0.10	104	85	115			
Beryllium	0.242	mg/L	0.010	97	85	115			
Cadmium	0.257	mg/L	0.010	103	85	115			
Chromium	0.495	mg/L	0.050	99	85	115			
Copper	0.489	mg/L	0.010	98	85	115			
Lead	0.500	mg/L	0.050	100	85	115			
Manganese	2.58	mg/L	0.010	103	85	115			
Molybdenum	0.504	mg/L	0.10	101	85	115			
Nickel	0.500	mg/L	0.050	100	85	115			
Selenium	0.497	mg/L	0.0020	99	85	115			
Silver	0.0460	mg/L	0.010	92	85	115			
Strontium	0.505	mg/L	0.10	101	85	115			
Thallium	0.497	mg/L	0.10	99	85	115			
Uranium	0.486	mg/L	0.00032	97	85	115			
Zinc	0.498	mg/L	0.010	99	85	115			
Sample ID: R08040250-007D	Sample Matrix Spike		Run: SUB-C100440			05/01/08 04:06			
Antimony	0.502	mg/L	0.050	100	70	130			
Arsenic	0.488	mg/L	0.0010	96	70	130			
Barium	0.503	mg/L	0.10	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18421		
Sample ID: R08040250-007D	Sample Matrix Spike			Run: SUB-C100440			05/01/08 04:06		
Beryllium	0.240	mg/L	0.010	96	70	130			
Cadmium	0.237	mg/L	0.010	95	70	130			
Chromium	0.469	mg/L	0.050	93	70	130			
Copper	0.462	mg/L	0.010	92	70	130			
Lead	0.471	mg/L	0.050	94	70	130			
Manganese	2.92	mg/L	0.010	99	70	130			
Molybdenum	0.483	mg/L	0.10	96	70	130			
Nickel	0.474	mg/L	0.050	94	70	130			
Selenium	0.461	mg/L	0.0020	92	70	130			
Silver	0.0432	mg/L	0.010	86	70	130			
Strontium	7.59	mg/L	0.10		70	130			A
Thallium	0.468	mg/L	0.10	94	70	130			
Uranium	0.504	mg/L	0.00032	95	70	130			
Zinc	0.486	mg/L	0.010	93	70	130			
Sample ID: R08040250-007D	Sample Matrix Spike Duplicate			Run: SUB-C100440			05/01/08 04:13		
Antimony	0.498	mg/L	0.050	100	70	130	0.7	20	
Arsenic	0.495	mg/L	0.0010	98	70	130	1.4	20	
Barium	0.513	mg/L	0.10	100	70	130	2.0	20	
Beryllium	0.229	mg/L	0.010	92	70	130	4.6	20	
Cadmium	0.237	mg/L	0.010	95	70	130	0.0	20	
Chromium	0.471	mg/L	0.050	94	70	130	0.6	20	
Copper	0.459	mg/L	0.010	91	70	130	0.6	20	
Lead	0.472	mg/L	0.050	94	70	130	0.2	20	
Manganese	2.95	mg/L	0.010	100	70	130	1.2	20	
Molybdenum	0.477	mg/L	0.10	95	70	130	1.3	20	
Nickel	0.464	mg/L	0.050	92	70	130	2.0	20	
Selenium	0.459	mg/L	0.0020	92	70	130	0.4	20	
Silver	0.0431	mg/L	0.010	86	70	130	0.2	20	
Strontium	7.67	mg/L	0.10		70	130	1.0	20	A
Thallium	0.471	mg/L	0.10	94	70	130	0.5	20	
Uranium	0.500	mg/L	0.00032	94	70	130	0.9	20	
Zinc	0.481	mg/L	0.010	92	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18450
Sample ID: MB-18450 Uranium	Method Blank 4E-05	mg/L	2E-05						Run: SUB-C100604 05/05/08 05:17
Sample ID: LCS1-18450 Uranium	Laboratory Control Sample 0.0505	mg/L	0.00030	96	80	120			Run: SUB-C100604 05/05/08 05:21
Sample ID: R08040287-003I Uranium	Post Digestion Spike 0.0132	mg/L	0.00030	98	70	130			Run: SUB-C100604 05/05/08 06:19
Sample ID: R08040287-003I Uranium	Post Digestion Spike Duplicate 0.0135	mg/L	0.00030	100	70	130	2.0	20	Run: SUB-C100604 05/05/08 06:23

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Batch: C_R100685			
Sample ID: LRB	Method Blank			Run: SUB-C100685			05/05/08 13:42			
Arsenic	ND	mg/L	6E-05							
Barium	ND	mg/L	3E-05							
Cadmium	ND	mg/L	1E-05							
Copper	ND	mg/L	7E-05							
Lead	ND	mg/L	3E-05							
Mercury	ND	mg/L	8E-05							
Nickel	ND	mg/L	0.0007							
Thorium 232	8E-05	mg/L	4E-05							
Uranium	ND	mg/L	1E-05							
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C100685			05/05/08 13:48			
Arsenic	0.0524	mg/L	0.0010	105	85	115				
Barium	0.0525	mg/L	0.0010	105	85	115				
Cadmium	0.0525	mg/L	0.0010	105	85	115				
Copper	0.0527	mg/L	0.0010	105	85	115				
Lead	0.0516	mg/L	0.0010	103	85	115				
Mercury	0.00519	mg/L	0.0010	104	85	115				
Nickel	0.0527	mg/L	0.0010	105	85	115				
Thorium 232	0.0509	mg/L	0.0010	102	85	115				
Uranium	0.0514	mg/L	0.00030	103	85	115				
Sample ID: R08040250-007C	Post Digestion Spike			Run: SUB-C100685			05/05/08 23:16			
Arsenic	0.0602	mg/L	0.0010	106	70	130				
Barium	0.0776	mg/L	0.10	107	70	130				
Cadmium	0.0480	mg/L	0.010	96	70	130				
Copper	0.0495	mg/L	0.010	94	70	130				
Lead	0.0529	mg/L	0.050	106	70	130				
Mercury	0.00511	mg/L	0.0010	102	70	130				
Nickel	0.0568	mg/L	0.050	107	70	130				
Thorium 232	0.0561	mg/L	0.0010	112	70	130				
Uranium	0.0861	mg/L	0.00030	112	70	130				
Sample ID: R08040250-007C	Post Digestion Spike Duplicate			Run: SUB-C100685			05/05/08 23:23			
Arsenic	0.0629	mg/L	0.0010	111	70	130	4.3	20		
Barium	0.0776	mg/L	0.10	107	70	130	0.0	20		
Cadmium	0.0491	mg/L	0.010	98	70	130	2.3	20		
Copper	0.0518	mg/L	0.010	99	70	130	4.6	20		
Lead	0.0528	mg/L	0.050	105	70	130	0.2	20		
Mercury	0.00518	mg/L	0.0010	104	70	130	1.3	20		
Nickel	0.0635	mg/L	0.050	121	70	130	11	20		
Thorium 232	0.0560	mg/L	0.0010	112	70	130	0.1	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100685		
Sample ID: R08040250-007C	Post Digestion Spike Duplicate			Run: SUB-C100685			05/05/08 23:23		
Uranium	0.0857	mg/L	0.00030	111	70	130	0.5	20	
Sample ID: C08040936-001AMS	Sample Matrix Spike			Run: SUB-C100685			05/06/08 03:00		
Arsenic	0.56	mg/L	0.0010	104	70	130			
Barium	0.54	mg/L	0.0010	103	70	130			
Cadmium	0.50	mg/L	0.0010	101	70	130			
Copper	0.49	mg/L	0.0015	98	70	130			
Lead	0.52	mg/L	0.0010	104	70	130			
Mercury	0.053	mg/L	0.0010	105	70	130			
Nickel	0.50	mg/L	0.0010	98	70	130			
Thorium 232	0.53	mg/L	0.0010	107	70	130			
Uranium	0.53	mg/L	0.00032	106	70	130			
Sample ID: C08040936-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C100685			05/06/08 03:07		
Arsenic	0.56	mg/L	0.0010	104	70	130	0.5	20	
Barium	0.54	mg/L	0.0010	104	70	130	0.8	20	
Cadmium	0.50	mg/L	0.0010	101	70	130	0.2	20	
Copper	0.50	mg/L	0.0015	99	70	130	1.8	20	
Lead	0.52	mg/L	0.0010	104	70	130	0.3	20	
Mercury	0.043	mg/L	0.0010	87	70	130	19	20	
Nickel	0.51	mg/L	0.0010	100	70	130	2.3	20	
Thorium 232	0.53	mg/L	0.0010	106	70	130	0.2	20	
Uranium	0.53	mg/L	0.00032	106	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100732		
Sample ID: LRB Silver	Method Blank 5E-05 mg/L		3E-05			Run: SUB-C100732			05/06/08 11:52
Sample ID: LFB Silver	Laboratory Fortified Blank 0.0211 mg/L		0.0010	105	85	115			05/06/08 11:59
Sample ID: C08040928-001CMS4 Silver	Post Digestion Spike 0.0129 mg/L		0.010	65	70	130			05/06/08 15:02 S
Sample ID: C08040928-001CMSD4 Silver	Post Digestion Spike Duplicate 0.0134 mg/L		0.010	67	70	130	3.4	20	05/06/08 15:08 S
Sample ID: R08040287-001C Silver	Post Digestion Spike 0.0144 mg/L		0.010	72	70	130			05/07/08 01:51
Sample ID: R08040287-001C Silver	Post Digestion Spike Duplicate 0.0151 mg/L		0.010	76	70	130	5.0	20	05/07/08 01:58
Method: E245.1							Batch: C_B_32271		
Sample ID: MB-32271 Mercury	Method Blank ND mg/L		5E-05			Run: SUB-C100762			05/06/08 16:10
Sample ID: LFB-32271 Mercury	Laboratory Fortified Blank 0.0019 mg/L		0.0010	93	85	115			05/06/08 16:12
Sample ID: B08050167-003CMS Mercury	Sample Matrix Spike 0.0019 mg/L		0.0010	97	70	130			05/06/08 16:22
Sample ID: B08050167-003CMSD Mercury	Sample Matrix Spike Duplicate 0.0021 mg/L		0.0010	105	70	130	8.4	30	05/06/08 16:24
Sample ID: B08050247-007DMS Mercury	Sample Matrix Spike 0.0020 mg/L		0.0010	102	70	130			05/06/08 16:55
Sample ID: B08050247-007DMSD Mercury	Sample Matrix Spike Duplicate 0.0019 mg/L		0.0010	96	70	130	5.6	30	05/06/08 16:57
Method: E245.1							Analytical Run: SUB-C100762		
Sample ID: QCS Mercury	Initial Calibration Verification Standard 0.0020 mg/L		0.0010	101	90	110			05/06/08 14:51

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: G_R159465		
Sample ID: G08050354-007BMS	Sample Matrix Spike			Run: SUB-G159465			05/11/08 08:04		
Chloride	1060	mg/L	2.1	100	80	120			
Fluoride	99.9	mg/L	0.18	101	80	120			
Sample ID: G08050354-007BMSD	Sample Matrix Spike Duplicate			Run: SUB-G159465			05/11/08 08:16		
Chloride	1080	mg/L	2.1	102	80	120	1.8	20	
Fluoride	102	mg/L	0.18	103	80	120	1.7	20	
Method: E300.0							Batch: G_R159560		
Sample ID: G08050374-001BMS	Sample Matrix Spike			Run: SUB-G159560			05/13/08 04:54		
Sulfate	385	mg/L	1.0	100	80	120			
Sample ID: G08050374-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-G159560			05/13/08 05:06		
Sulfate	382	mg/L	1.0	99	80	120	0.9	20	
Method: E353.2							Batch: A2008-04-23_3_NO2_01		
Sample ID: MBLK-2	Method Blank			Run: TECHAA1-R_080423A			04/23/08 18:53		
Nitrogen, Nitrite as N	ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank			Run: TECHAA1-R_080423A			04/23/08 19:06		
Nitrogen, Nitrite as N	0.249	mg/L	0.050	100	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank			Run: TECHAA1-R_080423A			04/23/08 19:08		
Nitrogen, Nitrite as N	0.282	mg/L	0.050	113	90	110			S
Sample ID: R08040244-001BMS	Sample Matrix Spike			Run: TECHAA1-R_080423A			04/23/08 19:21		
Nitrogen, Nitrite as N	0.167	mg/L	0.050	67	90	110			S
Sample ID: R08040244-001BMSD	Sample Matrix Spike Duplicate			Run: TECHAA1-R_080423A			04/23/08 19:23		
Nitrogen, Nitrite as N	0.171	mg/L	0.050	68	90	110	2.4	10	S
Sample ID: R08040250-006AMS	Sample Matrix Spike			Run: TECHAA1-R_080423A			04/23/08 19:47		
Nitrogen, Nitrite as N	0.226	mg/L	0.050	90	90	110			
Sample ID: R08040250-006AMSD	Sample Matrix Spike Duplicate			Run: TECHAA1-R_080423A			04/23/08 19:49		
Nitrogen, Nitrite as N	0.196	mg/L	0.050	78	90	110	14	10	SR

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0439		
Sample ID: MB-GrAB-0439	Method Blank				Run: SUB-C100919			05/09/08 01:51	
Gross Alpha	-0.1	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0439	Laboratory Control Sample				Run: SUB-C100919			05/09/08 01:51	
Gross Alpha	250	pCi/L	100		70	130			
Sample ID: Cs137-GrAB-0439	Laboratory Control Sample				Run: SUB-C100919			05/09/08 01:51	
Gross Beta	93	pCi/L	100		70	130			
Sample ID: C08041163-001BMS	Sample Matrix Spike				Run: SUB-C100919			05/09/08 01:51	
Gross Alpha	260	pCi/L	102		70	130			
Sample ID: C08041163-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C100919			05/09/08 01:51	
Gross Alpha	240	pCi/L	96		70	130	6.6	15.8	
Sample ID: C08041163-001BMS	Sample Matrix Spike				Run: SUB-C100919			05/09/08 01:51	
Gross Beta	94	pCi/L	101		70	130			
Sample ID: C08041163-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C100919			05/09/08 01:51	
Gross Beta	93	pCi/L	100		70	130	1.1	16.1	
Method: E901.1							Batch: C_R100708		
Sample ID: LCS-R100708	Laboratory Control Sample				Run: SUB-C100708			05/01/08 17:22	
Americium 241	720	pCi/L	20	88	70	130			
Cesium 137	1200	pCi/L	20	109	70	130			
Sample ID: MB-R100708	Method Blank				Run: SUB-C100708			05/01/08 17:22	
Gross Gamma	ND	pCi/L							
Sample ID: C08041046-006ADUP	Sample Duplicate				Run: SUB-C100708			05/01/08 17:22	
Gross Gamma	480	pCi/L	20				12	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18450		
Sample ID: C08041110-001AMS Radium 226	Sample Matrix Spike 125 pCi/Filter			101	70	130			05/06/08 15:27
Sample ID: C08041110-001AMSD Radium 226	Sample Matrix Spike Duplicate 127 pCi/Filter			102	70	130	1.2	25.7	05/06/08 15:27
Sample ID: LCS-18450 Radium 226	Laboratory Control Sample 13 pCi/L			109	70	130			05/06/08 15:27
Sample ID: MB-18450 Radium 226	Method Blank -2 pCi/L								05/06/08 15:27 U
Method: E903.0							Batch: C_RA226-2771		
Sample ID: C08041060-002HMS Radium 226	Sample Matrix Spike 12 pCi/L			90	70	130			05/13/08 08:49
Sample ID: C08041060-002HMSD Radium 226	Sample Matrix Spike Duplicate 12 pCi/L			93	70	130	2.4	21.9	05/13/08 08:49
Sample ID: MB-RA226-2771 Radium 226	Method Blank -0.03 pCi/L								05/13/08 13:15 U
Sample ID: LCS-RA226-2771 Radium 226	Laboratory Control Sample 5.3 pCi/L			83	70	130			05/13/08 13:15
Method: E907.0							Batch: C_18450		
Sample ID: C08041060-004IMS Thorium 230	Sample Matrix Spike 21.6 pCi/L		0.20	98	70	130			05/01/08 15:30
Sample ID: C08041060-004IMSD Thorium 230	Sample Matrix Spike Duplicate 18.9 pCi/L		0.20	82	70	130	13	30	05/01/08 15:30
Sample ID: LCS-18450 Thorium 230	Laboratory Control Sample 47.0 pCi/L		0.20	98	70	130			05/01/08 15:30
Sample ID: MB-18450 Thorium 230	Method Blank ND pCi/L								05/01/08 15:30

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R100724		
Sample ID: LCS-R100724 Thorium 230	Laboratory Control Sample 7.20 pCi/L		0.20	103	70	130			04/29/08 15:30
Sample ID: R08040287-001H Thorium 230	Sample Matrix Spike 9.50 pCi/L		0.20	97	70	130			04/29/08 15:30
Sample ID: R08040287-001H Thorium 230	Sample Matrix Spike Duplicate 9.40 pCi/L		0.20	96	70	130	1.1	30	04/29/08 15:30
Sample ID: MB-R100724 Thorium 230	Method Blank ND pCi/L								04/29/08 15:30
Method: E909.0M							Batch: C_18450		
Sample ID: C08041052-003BMS Lead 210	Sample Matrix Spike 1000 pCi/L		1.0	85	70	130			05/16/08 07:00
Sample ID: C08041052-003BMSD Lead 210	Sample Matrix Spike Duplicate 1200 pCi/L		1.0	101	70	130	18	30	05/16/08 07:00
Sample ID: MB-R101784 Lead 210	Method Blank ND pCi/L								05/16/08 07:00
Sample ID: LCS-R101784 Lead 210	Laboratory Control Sample 130 pCi/L		1.0	106	70	130			05/16/08 07:00
Method: E909.0M							Batch: C_R102446		
Sample ID: C08041052-001AMS Lead 210	Sample Matrix Spike 460 pCi/L		1.0	78	70	130			05/21/08 07:45
Sample ID: C08041052-001AMSD Lead 210	Sample Matrix Spike Duplicate 500 pCi/L		1.0	85	70	130	9.1	30	05/21/08 07:45
Sample ID: C08041052-006ADUP Lead 210	Sample Duplicate ND pCi/L		1.0				0.0	30	05/21/08 07:45
Sample ID: MB-R102446 Lead 210	Method Blank ND pCi/L								05/21/08 07:45
Sample ID: LCS-R102446 Lead 210	Laboratory Control Sample 130 pCi/L		1.0	109	70	130			05/21/08 07:45

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040250

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R100704		
Sample ID: R08040287-003I Polonium 210	Sample Matrix Spike 88	pCi/L	1.0	107	70	130			05/01/08 14:15
Sample ID: R08040287-003I Polonium 210	Sample Matrix Spike Duplicate 89	pCi/L	1.0	107	70	130	0.8	30	05/01/08 14:15
Sample ID: LCS-18424 Polonium 210	Laboratory Control Sample 180	pCi/L	1.0	102	70	130			05/01/08 14:15
Sample ID: MB-18424 Polonium 210	Method Blank 0.5	pCi/L							05/01/08 14:15 U
Method: RMO-3008							Batch: C_R100887		
Sample ID: R08040250-007H Polonium 210	Sample Matrix Spike 160	pCi/L	1.0	93	70	130			05/06/08 17:00
Sample ID: R08040250-007H Polonium 210	Sample Matrix Spike Duplicate 220	pCi/L	1.0	125	70	130	30	30	05/06/08 17:00
Sample ID: LCS-R100887 Polonium 210	Laboratory Control Sample 93	pCi/L	1.0	106	70	130			05/06/08 17:00
Sample ID: MB-R100887 Polonium 210	Method Blank 0.8	pCi/L							05/06/08 17:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

Company Name: RESPEC		Project Name, PWS #, Permit #, Etc.: Pure-Tal Denny Park							
Report Mail Address: RESPEC		Contact Name, Phone, Fax, E-mail: Corey Foreman & Eric Krantz							
Invoice Address: RESPEC		Invoice Contact & Phone #: Corey Foreman & Eric Krantz							
Report Required For: <input type="checkbox"/> POT/WW/TP <input type="checkbox"/> DW <input type="checkbox"/> Other: _____		Purchase Order #: _____							
Special Report Formats - EII must be notified prior to sample submittal for the following: NELAC <input type="checkbox"/> A2LA <input type="checkbox"/> Level IV <input type="checkbox"/> Other: _____		EII Quote #: _____							
EDD/EDT <input type="checkbox"/> Format: _____		Notify EII prior to RUSH sample submittal for additional charges and scheduling Comments: GD DENR Monthly							
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		ANALYSIS REQUESTED TO RUSH QURRY							
1	Dew Bund GW 694	4/21/08	12:24	W	SEE ATTACHED	Normal Turnaround (TAT)	_____	Received by: _____	_____
2	Dew Bund GW 694	4/21/08	2:30	W	SEE ATTACHED	RUSH Turnaround (TAT)	_____	Signature: _____	_____
3	Dew Bund GW 622	4/21/08	15:24	W	SEE ATTACHED	_____	_____	Intact: _____	_____
4	Dew Bund GW 615	4/21/08	16:16	W	SEE ATTACHED	_____	_____	Signature Match: _____	_____
5	Dew Bund GW 689	4/21/08	19:50	W	SEE ATTACHED	_____	_____	_____	_____
6	Dew Bund GW 681	4/21/08	20:36	W	SEE ATTACHED	_____	_____	_____	_____
7	Dew Bund GW 680	4/21/08	21:21	W	SEE ATTACHED	_____	_____	_____	_____
8									
9									
10									

Relinquished by: **Steve M. Arndt** Date/Time: **4/22/08 8:00**

Relinquished by: **Steve M. Arndt** Date/Time: **4/22/08 8:45**

Sample Disposal: _____ Return to client: _____ Lab Disposal: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, & links.



ANALYTICAL SUMMARY REPORT

June 24, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08040287 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 7 samples from RESPEC Inc on 4/23/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08040287-001	DewBurd GW695	04/22/08 12:46	04/23/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrite Nitrogen, Nitrate + Nitrite Nitrogen, Nitrate Only Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08040287-002	DewBurd GW688	04/22/08 13:26	04/23/08	Aqueous	Same As Above
R08040287-003	DewBurd GW3026	04/22/08 14:30	04/23/08	Aqueous	Same As Above
R08040287-004	DewBurd GW698	04/22/08 11:30	04/23/08	Aqueous	Same As Above
R08040287-005	DewBurd GW697	04/22/08 16:02	04/23/08	Aqueous	Same As Above



R08040287-006 DewBurd BLK01

04/22/08 15:57 04/23/08

Aqueous

Metals by ICP/ICPMS, Dissolved
Metals by ICP/ICPMS, Suspended
Metals by ICP/ICPMS, Total
Alkalinity
Conductivity
Mercury, Total
Selenium, Dissolved
Selenium, Dissolved
Selenium, Dissolved
Anions by Ion Chromatography
Nitrogen, Ammonia
Nitrogen, Nitrite
Nitrogen, Nitrate + Nitrite
Nitrogen, Nitrate Only
Oxidation Reduction Potential
pH
Digestion, Total Metals
Digestion, Total Metals
Dissolved Filtration
Digestion, Mercury by CVAA
Gross Alpha, Gross Beta
Gross Gamma, Dissolved
Lead 210, Dissolved
Lead 210, Suspended
Polonium 210, Dissolved
Polonium 210, Suspended
Radium 226, Dissolved
Radium 226, Suspended
Radon 222
Thorium, Isotopic
Thorium, Suspended Isotopic
Sodium Adsorption Ratio
Solids, Total Dissolved



R08040287-007 DewBurd GW696

04/22/08 16:58 04/23/08

Aqueous

Metals by ICP/ICPMS, Dissolved
Metals by ICP/ICPMS, Suspended
Metals by ICP/ICPMS, Total
Alkalinity
Anion - Cation Balance
Conductivity
Mercury, Total
Selenium, Dissolved
Selenium, Dissolved
Selenium, Dissolved
Anions by Ion Chromatography
Nitrogen, Ammonia
Nitrogen, Nitrite
Nitrogen, Nitrate + Nitrite
Nitrogen, Nitrate Only
Oxidation Reduction Potential
pH
Digestion, Total Metals
Digestion, Total Metals
Dissolved Filtration
Digestion, Mercury by CVAA
Gross Alpha, Gross Beta
Gross Gamma, Dissolved
Lead 210, Dissolved
Lead 210, Suspended
Polonium 210, Dissolved
Polonium 210, Suspended
Radium 226, Dissolved
Radium 226, Suspended
Radon 222
Thorium, Isotopic
Thorium, Suspended Isotopic
Sodium Adsorption Ratio
Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson

Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-001
 Client Sample ID: DewBurd GW695

Report Date: 06/24/08
 Collection Date: 04/22/08 12:46
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B	04/25/08 15:21/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/25/08 15:21/mb
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B	04/25/08 15:21/mb
Calcium	50.1	mg/L		0.5		2	E200.7	05/08/08 21:29/eli-c
Chloride	11	mg/L		1		5	E300.0	05/10/08 21:58/eli-g
Fluoride	0.4	mg/L		0.1		5	E300.0	05/10/08 21:58/eli-g
Magnesium	17.6	mg/L		0.5		2	E200.7	05/08/08 21:29/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	04/28/08 16:23/jmh
Potassium	8.4	mg/L		0.5		2	E200.7	05/08/08 21:29/eli-c
Silica	3.9	mg/L		0.5		2	E200.7	05/08/08 21:29/eli-c
Sodium	251	mg/L	D	2		2	E200.7	05/08/08 21:29/eli-c
Sulfate	504	mg/L		1		5	E300.0	05/10/08 21:58/eli-g
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1370	umhos/cm		5.0		1	A2510 B	04/28/08 12:49/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B	04/24/08 00:00/tb
pH	8.08	s.u.		0.01		1	A4500-H B	04/28/08 10:42/tb
Sodium Adsorption Ratio (SAR)	7.8	unitless		0.10		1	Calculation	06/18/08 08:38/ADM
Solids, Total Dissolved TDS @ 180 C	910	mg/L		5		1	A2540 C	04/24/08 16:44/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/08/08 21:29/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/07/08 01:44/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/07/08 01:44/eli-c
Boron	ND	mg/L		0.1		2	E200.7	05/08/08 21:29/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/07/08 01:44/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/07/08 01:44/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/07/08 01:44/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/08/08 21:29/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/07/08 01:44/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	05/07/08 01:44/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/07/08 01:44/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	05/07/08 01:44/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/07/08 01:44/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/29/08 16:56/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/07/08 01:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/07/08 01:44/eli-c
Uranium	0.0029	mg/L		0.0003		1	E200.8	05/07/08 01:44/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-001
 Client Sample ID: DewBurd GW695

Report Date: 06/24/08
 Collection Date: 04/22/08 12:46
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	05/07/08 01:44/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/07/08 01:44/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/05/08 06:07/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	0.06	mg/L		0.05		1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	04/24/08 12:15/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/29/08 13:29/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/29/08 16:56/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	29.4	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Alpha precision (±)	4.2	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Alpha MDC	3.7	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta	6.0	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta MDC	4.0	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Lead 210	-1.8	pCi/L	U	1.0		1	E909.0M	05/23/08 08:45/eli-c
Lead 210 precision (±)	11.9	pCi/L				1	E909.0M	05/23/08 08:45/eli-c
Polonium 210	1.6	pCi/L		1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	5.0	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2.1	pCi/L	U	1.0		1	E909.0M	05/16/08 07:00/eli-c
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	05/16/08 07:00/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	05/01/08 14:15/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	RMO-3008	05/01/08 14:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-001
 Client Sample ID: DewBurd GW695

Report Date: 06/24/08
 Collection Date: 04/22/08 12:46
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.4	pCi/L	U				1	E903.0	05/06/08 15:27/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	05/06/08 15:27/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	05/06/08 15:27/eli-c
Thorium 230	0.3	pCi/L		0.2			1	E907.0	05/01/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	05/01/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1400	pCi/L		100			1	D5072-92	04/25/08 16:30/eli-c
Radon 222 precision (±)	64.0	pCi/L					1	D5072-92	04/25/08 16:30/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/05/08 16:04/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	05/05/08 16:04/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/05/08 16:04/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/06/08 19:59/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/08/08 23:59/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/05/08 16:04/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/05/08 16:04/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/05/08 16:04/eli-c
Iron	0.14	mg/L		0.03			2	E200.7	05/08/08 23:59/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/05/08 16:04/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	05/05/08 16:04/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	05/06/08 17:00/eli-b
Mercury	ND	mg/L		0.001			1	E200.8	05/05/08 16:04/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/05/08 16:04/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/05/08 16:04/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/05/08 16:04/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/05/08 16:04/eli-c
Strontium	1.0	mg/L		0.1			1	E200.8	05/05/08 16:04/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/05/08 16:04/eli-c
Uranium	0.0032	mg/L		0.0003			1	E200.8	05/05/08 16:04/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/05/08 16:04/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.68						1	A1030 E	06/18/08 00:00/ADM
Anions	14.3	meq/L					1	A1030 E	06/18/08 00:00/ADM
Cations	15.1	meq/L					1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	957	mg/L					1	A1030 E	06/18/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-001
 Client Sample ID: DewBurd GW695

Report Date: 06/24/08
 Collection Date: 04/22/08 12:46
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/	DF	Method	Analysis Date / By
					QCL			
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	06/18/08 00:00/ADM

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-002
 Client Sample ID: DewBurd GW688

Report Date: 06/24/08
 Collection Date: 04/22/08 13:26
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	90	mg/L		5			1	A2320 B	04/25/08 15:25/mb
Carbonate as CO3	17	mg/L		5			1	A2320 B	04/25/08 15:25/mb
Bicarbonate as HCO3	76	mg/L		5			1	A2320 B	04/25/08 15:25/mb
Calcium	50.1	mg/L		0.5			2	E200.7	05/08/08 21:33/eli-c
Chloride	10	mg/L		1			5	E300.0	05/10/08 22:09/eli-g
Fluoride	0.5	mg/L		0.1			5	E300.0	05/10/08 22:09/eli-g
Magnesium	20.5	mg/L		0.5			2	E200.7	05/08/08 21:33/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	04/28/08 16:24/jmh
Potassium	12.2	mg/L		0.5			2	E200.7	05/08/08 21:33/eli-c
Silica	3.7	mg/L		0.5			2	E200.7	05/08/08 21:33/eli-c
Sodium	197	mg/L	D	2			2	E200.7	05/08/08 21:33/eli-c
Sulfate	390	mg/L		1			5	E300.0	05/10/08 22:09/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1070	umhos/cm		5.0			1	A2510 B	04/28/08 12:50/tb
Oxidation-Reduction Potential	280	mV					1	A2580 B	04/24/08 00:00/tb
pH	9.15	s.u.		0.01			1	A4500-H B	04/28/08 10:43/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10			1	Calculation	06/18/08 08:38/ADM
Solids, Total Dissolved TDS @ 180 C	690	mg/L		5			1	A2540 C	04/24/08 16:45/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	05/08/08 21:33/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	05/07/08 02:05/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/07/08 02:05/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/08/08 21:33/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/07/08 02:05/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/07/08 02:05/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/07/08 02:05/eli-c
Iron	ND	mg/L		0.03			2	E200.7	05/08/08 21:33/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/07/08 02:05/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	05/07/08 02:05/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/07/08 02:05/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/07/08 02:05/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/07/08 02:05/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	04/29/08 17:02/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/07/08 02:05/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	05/07/08 02:05/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	05/07/08 02:05/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-002
 Client Sample ID: DewBurd GW688

Report Date: 06/24/08
 Collection Date: 04/22/08 13:26
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	05/07/08 02:05/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/07/08 02:05/eli-c
- The result for Manganese was confirmed by re-analysis.								
METALS - SUSPENDED								
Uranium	0.0147	mg/L		0.0003		1	E200.8	05/05/08 06:11/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	ND	mg/L		0.05		1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	04/24/08 12:21/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/29/08 13:36/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/29/08 17:02/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	10.1	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Alpha MDC	3.3	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta	16.9	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta MDC	3.5	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Lead 210	-2.7	pCi/L	U	1.0		1	E909.0M	05/23/08 08:45/eli-c
Lead 210 precision (±)	11.8	pCi/L				1	E909.0M	05/23/08 08:45/eli-c
Polonium 210	1.9	pCi/L		1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	1.2	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.1	pCi/L	U	1.0		1	E909.0M	05/16/08 07:00/eli-c
Lead 210 precision (±)	0.5	pCi/L				1	E909.0M	05/16/08 07:00/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	05/01/08 14:15/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1	RMO-3008	05/01/08 14:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-002
 Client Sample ID: DewBurd GW688

Report Date: 06/24/08
 Collection Date: 04/22/08 13:26
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	0.02	pCi/L	U				1	E903.0	05/06/08 15:27/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	05/06/08 15:27/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	05/06/08 15:27/eli-c
Thorium 230	15.9	pCi/L		0.2			1	E907.0	05/01/08 15:30/eli-c
Thorium 230 precision (±)	1.4	pCi/L					1	E907.0	05/01/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	307	pCi/L		100			1	D5072-92	04/25/08 16:30/eli-c
Radon 222 precision (±)	51.1	pCi/L					1	D5072-92	04/25/08 16:30/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/05/08 16:10/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	05/05/08 16:10/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/05/08 16:10/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/06/08 20:06/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/09/08 00:07/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/05/08 16:10/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/05/08 16:10/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/05/08 16:10/eli-c
Iron	0.05	mg/L		0.03			2	E200.7	05/09/08 00:07/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/05/08 16:10/eli-c
Manganese	0.01	mg/L		0.01			1	E200.8	05/05/08 16:10/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/05/08 16:10/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	05/06/08 17:02/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	05/05/08 16:10/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/05/08 16:10/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/05/08 16:10/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/05/08 16:10/eli-c
Strontium	1.2	mg/L		0.1			1	E200.8	05/05/08 16:10/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/05/08 16:10/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	05/05/08 16:10/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/05/08 16:10/eli-c

- The result for Manganese was confirmed by re-analysis.

DATA QUALITY

A/C Balance (± 5)	12.1						1	A1030 E	06/18/08 00:00/ADM
Anions	10.2	meq/L					1	A1030 E	06/18/08 00:00/ADM
Cations	13.1	meq/L					1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	744	mg/L					1	A1030 E	06/18/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040287-002
Client Sample ID: DewBurd GW688

Report Date: 06/24/08
Collection Date: 04/22/08 13:26
Date Received: 04/23/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.920					1	A1030 E	06/18/08 00:00/ADM

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-003
 Client Sample ID: DewBurd GW3026

Report Date: 06/24/08
 Collection Date: 04/22/08 14:30
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
MAJOR IONS								
Alkalinity, Total as CaCO3	126	mg/L		5		1	A2320 B	04/25/08 15:28/mb
Carbonate as CO3	10	mg/L		5		1	A2320 B	04/25/08 15:28/mb
Bicarbonate as HCO3	134	mg/L		5		1	A2320 B	04/25/08 15:28/mb
Calcium	331	mg/L		0.5		2	E200.7	05/08/08 21:37/eli-c
Chloride	16	mg/L		1		5	E300.0	05/10/08 22:21/eli-g
Fluoride	0.4	mg/L		0.1		5	E300.0	05/10/08 22:21/eli-g
Magnesium	86.8	mg/L		0.5		2	E200.7	05/08/08 21:37/eli-c
Nitrogen, Ammonia as N	0.8	mg/L		0.1		1	A4500-NH3 G	04/28/08 16:30/jmh
Potassium	23.7	mg/L		0.5		2	E200.7	05/08/08 21:37/eli-c
Silica	2.1	mg/L		0.5		2	E200.7	05/08/08 21:37/eli-c
Sodium	284	mg/L	D	2		2	E200.7	05/08/08 21:37/eli-c
Sulfate	1520	mg/L		1		10	E300.0	05/12/08 15:43/eli-g
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2730	umhos/cm		5.0		1	A2510 B	04/28/08 12:51/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	04/24/08 00:00/tb
pH	8.49	s.u.		0.01		1	A4500-H B	04/28/08 10:46/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	06/18/08 08:38/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	04/24/08 16:46/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/08/08 21:37/eli-c
Arsenic	0.012	mg/L		0.001		1	E200.8	05/07/08 02:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/07/08 02:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7	05/08/08 21:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/07/08 02:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/07/08 02:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/07/08 02:12/eli-c
Iron	2.67	mg/L		0.03		2	E200.7	05/08/08 21:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/07/08 02:12/eli-c
Manganese	0.36	mg/L		0.01		1	E200.8	05/07/08 02:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/07/08 02:12/eli-c
Molybdenum	0.1	mg/L		0.1		1	E200.8	05/07/08 02:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/07/08 02:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/29/08 17:04/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/07/08 02:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/07/08 02:12/eli-c
Uranium	0.0150	mg/L		0.0003		1	E200.8	05/07/08 02:12/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-003
 Client Sample ID: DewBurd GW3026

Report Date: 06/24/08
 Collection Date: 04/22/08 14:30
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	05/07/08 02:12/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	05/07/08 02:12/eli-c
METALS - SUSPENDED								
Uranium	0.0010	mg/L		0.0003		1	E200.8	05/05/08 06:15/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	0.09	mg/L		0.05		1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	04/24/08 12:23/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/29/08 13:39/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/29/08 17:04/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	43.8	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Alpha precision (±)	8.4	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Alpha MDC	8.6	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta	24.4	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta precision (±)	6.0	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta MDC	9.4	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	05/23/08 08:45/eli-c
Lead 210 precision (±)	11.9	pCi/L				1	E909.0M	05/23/08 08:45/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	2.8	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-8.2	pCi/L	U	1.0		1	E909.0M	05/16/08 07:00/eli-c
Lead 210 precision (±)	1.5	pCi/L				1	E909.0M	05/16/08 07:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	05/01/08 14:15/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	05/01/08 14:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-003
 Client Sample ID: DewBurd GW3026

Report Date: 06/24/08
 Collection Date: 04/22/08 14:30
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226	0.1	pCi/L	U			1	E903.0	05/06/08 15:27/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	05/06/08 15:27/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	05/06/08 15:27/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	05/01/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/01/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	304	pCi/L		100		1	D5072-92	04/25/08 16:30/eli-c
Radon 222 precision (±)	50.7	pCi/L				1	D5072-92	04/25/08 16:30/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	05/05/08 16:37/eli-c
Arsenic	0.022	mg/L		0.001		1	E200.8	05/05/08 16:37/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/05/08 16:37/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	05/06/08 20:13/eli-c
Boron	ND	mg/L		0.1		2	E200.7	05/09/08 00:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/05/08 16:37/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/05/08 16:37/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/05/08 16:37/eli-c
Iron	5.38	mg/L		0.03		2	E200.7	05/09/08 00:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/05/08 16:37/eli-c
Manganese	0.46	mg/L		0.01		1	E200.8	05/05/08 16:37/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/05/08 16:37/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	05/06/08 17:05/eli-b
Molybdenum	0.1	mg/L		0.1		1	E200.8	05/05/08 16:37/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/05/08 16:37/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	05/05/08 16:37/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/05/08 16:37/eli-c
Strontium	6.3	mg/L		0.1		1	E200.8	05/05/08 16:37/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	05/05/08 16:37/eli-c
Uranium	0.0196	mg/L		0.0003		1	E200.8	05/05/08 16:37/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	05/05/08 16:37/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.12					1	A1030 E	06/18/08 00:00/ADM
Anions	34.6	meq/L				1	A1030 E	06/18/08 00:00/ADM
Cations	36.8	meq/L				1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	2340	mg/L				1	A1030 E	06/18/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040287-003
Client Sample ID: DewBurd GW3026

Report Date: 06/24/08
Collection Date: 04/22/08 14:30
Date Received: 04/23/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	06/18/08 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-004
 Client Sample ID: DewBurd GW698

Report Date: 06/24/08
 Collection Date: 04/22/08 11:30
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	120	mg/L		5		1	A2320 B	04/25/08 15:41/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/25/08 15:41/mb
Bicarbonate as HCO3	146	mg/L		5		1	A2320 B	04/25/08 15:41/mb
Calcium	366	mg/L		0.5		2	E200.7	05/08/08 21:41/eli-c
Chloride	9	mg/L		1		5	E300.0	05/10/08 22:33/eli-g
Fluoride	0.3	mg/L		0.1		5	E300.0	05/10/08 22:33/eli-g
Magnesium	129	mg/L		0.5		2	E200.7	05/08/08 21:41/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	04/28/08 16:33/jmh
Potassium	15.6	mg/L		0.5		2	E200.7	05/08/08 21:41/eli-c
Silica	4.8	mg/L		0.5		2	E200.7	05/08/08 21:41/eli-c
Sodium	89	mg/L	D	2		2	E200.7	05/08/08 21:41/eli-c
Sulfate	1450	mg/L		1		10	E300.0	05/12/08 15:54/eli-g
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2420	umhos/cm		5.0		1	A2510 B	04/28/08 12:53/tb
Oxidation-Reduction Potential	110	mV				1	A2580 B	04/24/08 00:00/tb
pH	7.15	s.u.		0.01		1	A4500-H B	04/28/08 10:48/tb
Sodium Adsorption Ratio (SAR)	1.0	unitless		0.10		1	Calculation	06/18/08 08:38/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	04/24/08 16:46/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/08/08 21:41/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/07/08 02:18/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/07/08 02:18/eli-c
Boron	ND	mg/L		0.1		2	E200.7	05/08/08 21:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/07/08 02:18/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/07/08 02:18/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/07/08 02:18/eli-c
Iron	2.49	mg/L		0.03		2	E200.7	05/08/08 21:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/07/08 02:18/eli-c
Manganese	2.39	mg/L		0.01		1	E200.8	05/07/08 02:18/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/07/08 02:18/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	05/07/08 02:18/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/07/08 02:18/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/29/08 17:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/07/08 02:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/07/08 02:18/eli-c
Uranium	0.110	mg/L		0.0003		1	E200.8	05/07/08 02:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-004
 Client Sample ID: DewBurd GW698

Report Date: 06/24/08
 Collection Date: 04/22/08 11:30
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	05/07/08 02:18/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/07/08 02:18/eli-c
METALS - SUSPENDED								
Uranium	0.0006	mg/L		0.0003		1	E200.8	05/05/08 06:48/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	0.09	mg/L		0.05		1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	04/24/08 12:26/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/29/08 13:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/29/08 17:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	2110	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Alpha precision (±)	46.5	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Alpha MDC	8.3	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta	604	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta precision (±)	12.5	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta MDC	9.4	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Lead 210	-3.5	pCi/L	U	1.0		1	E909.0M	05/23/08 08:45/eli-c
Lead 210 precision (±)	11.8	pCi/L				1	E909.0M	05/23/08 08:45/eli-c
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	370	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Radium 226 precision (±)	3.2	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	680	pCi/L		20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	54	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	05/14/08 06:30/eli-c
Lead 210 precision (±)	1.5	pCi/L				1	E909.0M	05/14/08 06:30/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	05/06/08 12:00/eli-c
Polonium 210 precision (±)	0.48	pCi/L				1	RMO-3008	05/06/08 12:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-004
 Client Sample ID: DewBurd GW698

Report Date: 06/24/08
 Collection Date: 04/22/08 11:30
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226	6.4	pCi/L				1 E903.0	05/13/08 11:21/eli-c
Radium 226 precision (±)	0.7	pCi/L				1 E903.0	05/13/08 11:21/eli-c
Radium 226 MDC	0.3	pCi/L				1 E903.0	05/13/08 11:21/eli-c
Thorium 230	0.2	pCi/L		0.2		1 E907.0	05/02/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	05/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	25800	pCi/L		100		1 D5072-92	04/25/08 16:30/eli-c
Radon 222 precision (±)	193	pCi/L				1 D5072-92	04/25/08 16:30/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	05/05/08 16:44/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	05/05/08 16:44/eli-c
Barium	ND	mg/L		0.1		1 E200.8	05/05/08 16:44/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	05/07/08 21:26/eli-c
Boron	ND	mg/L		0.1		2 E200.7	05/09/08 00:15/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	05/05/08 16:44/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	05/05/08 16:44/eli-c
Copper	ND	mg/L		0.01		1 E200.8	05/05/08 16:44/eli-c
Iron	4.53	mg/L		0.03		2 E200.7	05/09/08 00:15/eli-c
Lead	ND	mg/L		0.001		1 E200.8	05/05/08 16:44/eli-c
Manganese	2.50	mg/L		0.01		1 E200.8	05/05/08 16:44/eli-c
Mercury	ND	mg/L		0.001		1 E200.8	05/05/08 16:44/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	05/06/08 17:07/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	05/05/08 16:44/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	05/05/08 16:44/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	05/05/08 16:44/eli-c
Silver	ND	mg/L		0.005		1 E200.8	05/05/08 16:44/eli-c
Strontium	5.2	mg/L		0.1		1 E200.8	05/05/08 16:44/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	05/05/08 16:44/eli-c
Uranium	0.119	mg/L		0.0003		1 E200.8	05/05/08 16:44/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	05/05/08 16:44/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.920					1 A1030 E	06/18/08 00:00/ADM
Anions	32.8	meq/L				1 A1030 E	06/18/08 00:00/ADM
Cations	33.4	meq/L				1 A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	2140	mg/L				1 A1030 E	06/18/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040287-004
Client Sample ID: DewBurd GW698

Report Date: 06/24/08
Collection Date: 04/22/08 11:30
Date Received: 04/23/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	1.05						1	A1030 E	06/18/08 00:00/ADM

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-005
 Client Sample ID: DewBurd GW697

Report Date: 06/24/08
 Collection Date: 04/22/08 16:02
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	166	mg/L		5			1	A2320 B	04/25/08 15:44/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	04/25/08 15:44/mb
Bicarbonate as HCO3	202	mg/L		5			1	A2320 B	04/25/08 15:44/mb
Calcium	50.6	mg/L		0.5			2	E200.7	05/08/08 22:42/eli-c
Chloride	8	mg/L		1			5	E300.0	05/10/08 22:44/eli-g
Fluoride	0.5	mg/L		0.1			5	E300.0	05/10/08 22:44/eli-g
Magnesium	17.3	mg/L		0.5			2	E200.7	05/08/08 22:42/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	04/28/08 16:34/jmh
Potassium	8.5	mg/L		0.5			2	E200.7	05/08/08 22:42/eli-c
Silica	4.0	mg/L		0.5			2	E200.7	05/08/08 22:42/eli-c
Sodium	215	mg/L	D	2			2	E200.7	05/08/08 22:42/eli-c
Sulfate	430	mg/L		1			5	E300.0	05/10/08 22:44/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1230	umhos/cm		5.0			1	A2510 B	04/28/08 12:54/tb
Oxidation-Reduction Potential	320	mV					1	A2580 B	04/24/08 00:00/tb
pH	8.07	s.u.		0.01			1	A4500-H B	04/28/08 10:49/tb
Sodium Adsorption Ratio (SAR)	6.6	unitless		0.10			1	Calculation	06/18/08 08:38/ADM
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5			1	A2540 C	04/25/08 13:10/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	05/08/08 13:28/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	05/07/08 02:25/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/07/08 02:25/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/08/08 22:42/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/07/08 02:25/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/07/08 02:25/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/07/08 02:25/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	05/08/08 22:42/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/07/08 02:25/eli-c
Manganese	0.05	mg/L		0.01			1	E200.8	05/07/08 02:25/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/07/08 02:25/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/07/08 02:25/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/07/08 02:25/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	04/29/08 17:09/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/07/08 02:25/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	05/07/08 02:25/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	05/07/08 02:25/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-005
 Client Sample ID: DewBurd GW697

Report Date: 06/24/08
 Collection Date: 04/22/08 16:02
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	05/07/08 02:25/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/07/08 02:25/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/05/08 06:52/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	ND	mg/L		0.05		1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	04/24/08 12:28/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/29/08 13:43/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/29/08 17:09/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	8.4	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Alpha precision (±)	2.7	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Alpha MDC	3.3	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta	8.4	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta MDC	4.0	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Lead 210	-0.7	pCi/L	U	1.0		1	E909.0M	05/23/08 08:45/eli-c
Lead 210 precision (±)	11.9	pCi/L				1	E909.0M	05/23/08 08:45/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	1.7	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/13/08 11:18/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	05/14/08 06:30/eli-c
Lead 210 precision (±)	1.2	pCi/L				1	E909.0M	05/14/08 06:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	05/06/08 12:00/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	05/06/08 12:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-005
 Client Sample ID: DewBurd GW697

Report Date: 06/24/08
 Collection Date: 04/22/08 16:02
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.1	pCi/L	U				1	E903.0	05/13/08 11:21/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	05/13/08 11:21/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	05/13/08 11:21/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	05/02/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	05/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	284	pCi/L		100			1	D5072-92	04/25/08 16:30/eli-c
Radon 222 precision (±)	49.9	pCi/L					1	D5072-92	04/25/08 16:30/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/05/08 16:51/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	05/05/08 16:51/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/05/08 16:51/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/07/08 21:34/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/09/08 01:07/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/05/08 16:51/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/05/08 16:51/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/05/08 16:51/eli-c
Iron	0.05	mg/L		0.03			2	E200.7	05/09/08 01:07/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/05/08 16:51/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	05/05/08 16:51/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/05/08 16:51/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	05/06/08 17:09/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	05/05/08 16:51/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/05/08 16:51/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/05/08 16:51/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/05/08 16:51/eli-c
Strontium	1.3	mg/L		0.1			1	E200.8	05/05/08 16:51/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/05/08 16:51/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	05/05/08 16:51/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/05/08 16:51/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.91						1	A1030 E	06/18/08 00:00/ADM
Anions	12.5	meq/L					1	A1030 E	06/18/08 00:00/ADM
Cations	13.5	meq/L					1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	840	mg/L					1	A1030 E	06/18/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040287-005
Client Sample ID: DewBurd GW697

Report Date: 06/24/08
Collection Date: 04/22/08 16:02
Date Received: 04/23/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.970					1	A1030 E	06/18/08 00:00/ADM

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-006
 Client Sample ID: DewBurd BLK01

Report Date: 06/24/08
 Collection Date: 04/22/08 15:57
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	ND	mg/L		5			1	A2320 B	04/25/08 15:46/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	04/25/08 15:46/mb
Bicarbonate as HCO3	ND	mg/L		5			1	A2320 B	04/25/08 15:46/mb
Calcium	ND	mg/L		0.5			2	E200.7	05/08/08 22:50/eli-c
Chloride	ND	mg/L		1			1	E300.0	05/10/08 22:56/eli-g
Fluoride	ND	mg/L		0.1			1	E300.0	05/10/08 22:56/eli-g
Magnesium	ND	mg/L		0.5			2	E200.7	05/08/08 22:50/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	04/28/08 16:36/jmh
Potassium	ND	mg/L		0.5			2	E200.7	05/08/08 22:50/eli-c
Silica	ND	mg/L		0.5			2	E200.7	05/08/08 22:50/eli-c
Sodium	ND	mg/L	D	2			2	E200.7	05/08/08 22:50/eli-c
Sulfate	ND	mg/L		1			1	E300.0	05/10/08 22:56/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	ND	umhos/cm		5.0			1	A2510 B	04/28/08 12:56/tb
Oxidation-Reduction Potential	350	mV					1	A2580 B	04/24/08 00:00/tb
pH	5.67	s.u.		0.01			1	A4500-H B	04/28/08 10:51/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10			1	0	06/18/08 08:38/ADM
Solids, Total Dissolved TDS @ 180 C	6	mg/L		5			1	A2540 C	04/24/08 16:48/mb
- SAR calculations may not be appropriate for near blank results.									
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	05/08/08 22:50/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	05/07/08 02:32/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/07/08 02:32/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/08/08 22:50/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/07/08 02:32/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/07/08 02:32/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/07/08 02:32/eli-c
Iron	ND	mg/L		0.03			2	E200.7	05/08/08 22:50/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/07/08 02:32/eli-c
Manganese	ND	mg/L		0.01			1	E200.8	05/07/08 02:32/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/07/08 02:32/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/07/08 02:32/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/07/08 02:32/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	04/29/08 17:11/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/07/08 02:32/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	05/07/08 02:32/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	05/07/08 02:32/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-006
 Client Sample ID: DewBurd BLK01

Report Date: 06/24/08
 Collection Date: 04/22/08 15:57
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	05/07/08 02:32/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/07/08 02:32/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/05/08 06:56/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	ND	mg/L		0.05		1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	04/24/08 12:30/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/29/08 13:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/29/08 17:11/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-0.04	pCi/L	U			1	E900.0	05/12/08 04:34/eli-c
Gross Alpha precision (±)	0.6	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Alpha MDC	1	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta	-3	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Gross Beta MDC	2.6	pCi/L				1	E900.0	05/12/08 04:34/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	05/23/08 08:45/eli-c
Lead 210 precision (±)	11.9	pCi/L				1	E909.0M	05/23/08 08:45/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	0.3	pCi/L				1	E903.0	05/13/08 13:15/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	05/13/08 13:15/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/13/08 13:15/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-1.7	pCi/L	U	1.0		1	E909.0M	05/14/08 06:30/eli-c
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	05/14/08 06:30/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008	05/06/08 12:00/eli-c
Polonium 210 precision (±)	0.45	pCi/L				1	RMO-3008	05/06/08 12:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-006
 Client Sample ID: DewBurd BLK01

Report Date: 06/24/08
 Collection Date: 04/22/08 15:57
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.2	pCi/L	U			1	E903.0	05/13/08 11:21/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	05/13/08 11:21/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	05/13/08 11:21/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	05/02/08 15:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	05/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	121	pCi/L		100		1	D5072-92	04/25/08 16:30/eli-c
Radon 222 precision (±)	47.8	pCi/L				1	D5072-92	04/25/08 16:30/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	05/05/08 16:58/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/05/08 16:58/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/05/08 16:58/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	05/07/08 21:41/eli-c
Boron	ND	mg/L		0.1		2	E200.7	05/09/08 01:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/05/08 16:58/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/05/08 16:58/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/05/08 16:58/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/09/08 01:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/05/08 16:58/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	05/05/08 16:58/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/05/08 16:58/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	05/06/08 17:12/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	05/05/08 16:58/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/05/08 16:58/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	05/05/08 16:58/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/05/08 16:58/eli-c
Strontium	ND	mg/L		0.1		1	E200.8	05/05/08 16:58/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	05/05/08 16:58/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	05/05/08 16:58/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/05/08 16:58/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-007
 Client Sample ID: DewBurd GW696

Report Date: 06/24/08
 Collection Date: 04/22/08 16:58
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	182	mg/L		5			1	A2320 B	04/25/08 15:49/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	04/25/08 15:49/mb
Bicarbonate as HCO3	222	mg/L		5			1	A2320 B	04/25/08 15:49/mb
Calcium	29.9	mg/L		0.5			2	E200.7	05/08/08 22:54/eli-c
Chloride	12	mg/L		1			5	E300.0	05/10/08 23:08/eli-g
Fluoride	0.3	mg/L		0.1			5	E300.0	05/10/08 23:08/eli-g
Magnesium	10.4	mg/L		0.5			2	E200.7	05/08/08 22:54/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1			1	A4500-NH3 G	04/28/08 16:37/jmh
Potassium	9.3	mg/L		0.5			2	E200.7	05/08/08 22:54/eli-c
Silica	4.4	mg/L		0.5			2	E200.7	05/08/08 22:54/eli-c
Sodium	293	mg/L	D	2			2	E200.7	05/08/08 22:54/eli-c
Sulfate	475	mg/L		1			5	E300.0	05/10/08 23:08/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1410	umhos/cm		5.0			1	A2510 B	04/28/08 12:58/tb
Oxidation-Reduction Potential	200	mV					1	A2580 B	04/24/08 00:00/tb
pH	8.47	s.u.		0.01			1	A4500-H B	04/28/08 10:52/tb
Sodium Adsorption Ratio (SAR)	12	unitless		0.10			1	Calculation	06/18/08 08:38/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5			1	A2540 C	04/24/08 16:48/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	05/08/08 22:54/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	05/07/08 02:39/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/07/08 02:39/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/08/08 22:54/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/07/08 02:39/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/07/08 02:39/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/07/08 02:39/eli-c
Iron	0.07	mg/L		0.03			2	E200.7	05/08/08 22:54/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/07/08 02:39/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	05/07/08 02:39/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/07/08 02:39/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/07/08 02:39/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/07/08 02:39/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	04/29/08 17:13/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/07/08 02:39/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	05/07/08 02:39/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	05/07/08 02:39/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-007
 Client Sample ID: DewBurd GW696

Report Date: 06/24/08
 Collection Date: 04/22/08 16:58
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	05/07/08 02:39/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/07/08 02:39/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	05/05/08 07:00/eli-c
NUTRIENT PARAMETERS									
Nitrogen, Nitrate as N	ND	mg/L		0.05			1	E353.2	05/05/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05			1	E353.2	04/24/08 12:32/jmh
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	04/29/08 13:47/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	04/29/08 17:13/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	5.2	pCi/L					1	E900.0	05/12/08 04:34/eli-c
Gross Alpha precision (±)	2.7	pCi/L					1	E900.0	05/12/08 04:34/eli-c
Gross Alpha MDC	3.8	pCi/L					1	E900.0	05/12/08 04:34/eli-c
Gross Beta	10.7	pCi/L					1	E900.0	05/12/08 04:34/eli-c
Gross Beta precision (±)	2.6	pCi/L					1	E900.0	05/12/08 04:34/eli-c
Gross Beta MDC	4.1	pCi/L					1	E900.0	05/12/08 04:34/eli-c
Lead 210	-4.9	pCi/L	U	1.0			1	E909.0M	05/23/08 08:45/eli-c
Lead 210 precision (±)	11.8	pCi/L					1	E909.0M	05/23/08 08:45/eli-c
Polonium 210	0.9	pCi/L	U	1.0			1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L					1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	0.5	pCi/L					1	E903.0	05/13/08 13:15/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	05/13/08 13:15/eli-c
Radium 226 MDC	0.1	pCi/L					1	E903.0	05/13/08 13:15/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	04/29/08 15:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	04/29/08 15:30/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	0.0	pCi/L	U	1.0			1	E909.0M	05/14/08 06:30/eli-c
Lead 210 precision (±)	1.5	pCi/L					1	E909.0M	05/14/08 06:30/eli-c
Polonium 210	0.6	pCi/L	U	1.0			1	RMO-3008	05/06/08 12:00/eli-c
Polonium 210 precision (±)	0.55	pCi/L					1	RMO-3008	05/06/08 12:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-007
 Client Sample ID: DewBurd GW696

Report Date: 06/24/08
 Collection Date: 04/22/08 16:58
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.2	pCi/L	U				1	E903.0	05/13/08 11:21/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	05/13/08 11:21/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	05/13/08 11:21/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	05/02/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	05/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	185	pCi/L		100			1	D5072-92	04/25/08 16:30/eli-c
Radon 222 precision (±)	48.3	pCi/L					1	D5072-92	04/25/08 16:30/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/05/08 17:04/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	05/05/08 17:04/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/05/08 17:04/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/07/08 22:11/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/09/08 01:16/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/05/08 17:04/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/05/08 17:04/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/05/08 17:04/eli-c
Iron	0.08	mg/L		0.03			2	E200.7	05/09/08 01:16/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/05/08 17:04/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	05/05/08 17:04/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/05/08 17:04/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	05/06/08 17:19/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	05/05/08 17:04/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/05/08 17:04/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/05/08 17:04/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/05/08 17:04/eli-c
Strontium	0.8	mg/L		0.1			1	E200.8	05/05/08 17:04/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/05/08 17:04/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	05/05/08 17:04/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/05/08 17:04/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.13						1	A1030 E	06/18/08 00:00/ADM
Anions	13.9	meq/L					1	A1030 E	06/18/08 00:00/ADM
Cations	15.4	meq/L					1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	951	mg/L					1	A1030 E	06/18/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040287-007
 Client Sample ID: DewBurd GW696

Report Date: 06/24/08
 Collection Date: 04/22/08 16:58
 Date Received: 04/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	0.980						1	A1030 E	06/18/08 00:00/ADM

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080425A-ALK-SEL-W		
Sample ID: LCS1_080425A Alkalinity, Total as CaCO3	Laboratory Control Sample 952	mg/L	5.0	95	90	110			
							Run: PH_COND1-R_080425B	04/25/08 15:16	
Sample ID: MBLK1_080425A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						
							Run: PH_COND1-R_080425B	04/25/08 15:18	
Sample ID: R08040290-005BMS Alkalinity, Total as CaCO3	Sample Matrix Spike 1220	mg/L	5.0	115	80	120			
							Run: PH_COND1-R_080425B	04/25/08 16:14	
Sample ID: R08040290-005BMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 1240	mg/L	5.0	121	80	120	1.0	10	S
							Run: PH_COND1-R_080425B	04/25/08 16:18	
Method: A2510 B							Batch: 080428_1_COND-PROBE-W		
Sample ID: LCS1-1_080428 Conductivity @ 25 C	Laboratory Control Sample 143	umhos/cm	5.0	95	90	110			
							Run: PH_COND2-R_080428B	04/28/08 11:49	
Sample ID: LCS2-1_080428 Conductivity @ 25 C	Laboratory Control Sample 4960	umhos/cm	5.0	99	90	110			
							Run: PH_COND2-R_080428B	04/28/08 11:50	
Sample ID: LCS_COND-1_080428 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			
							Run: PH_COND2-R_080428B	04/28/08 11:51	
Sample ID: MBLK-1_080428 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						
							Run: PH_COND2-R_080428B	04/28/08 11:52	
Sample ID: R08040287-005ADUP Conductivity @ 25 C	Sample Duplicate 1240	umhos/cm	5.0				0.8	10	
							Run: PH_COND2-R_080428B	04/28/08 12:56	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080424A-SLDS-TDS-W		
Sample ID: LCS1_080424A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	104	90	110			04/24/08 16:32
Sample ID: MBLK1_080424A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						04/24/08 16:33
Sample ID: R08040273-002AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	350	mg/L	5.0	102	80	120			04/24/08 16:40
Sample ID: R08040273-002AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	350	mg/L	5.0	104	80	120	1.1	10	04/24/08 16:40
Sample ID: R08040290-009BMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	18000	mg/L	5.0	232	80	120			04/24/08 16:52 S
Sample ID: R08040290-009BMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	18000	mg/L	5.0	252	80	120	0.2	10	04/24/08 16:53 S
Method: A3114 B							Analytical Run: SUB-C100349		
Sample ID: 288-66-6	Initial Calibration Verification Standard								
Selenium-IV	0.050	mg/L	0.0010	100	90	110			04/29/08 12:37
Method: A3114 B							Batch: C_SE3114-080429B		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	6E-05						04/29/08 12:43
Sample ID: 288-66-6	Laboratory Control Sample								
Selenium-IV	0.051	mg/L	0.0010	102	90	110			04/29/08 12:45
Sample ID: R08040287-001E	Sample Matrix Spike								
Selenium-IV	0.049	mg/L	0.0010	98	85	115			04/29/08 13:31
Sample ID: R08040287-001E	Sample Matrix Spike Duplicate								
Selenium-IV	0.050	mg/L	0.0010	100	85	115	1.8	10	04/29/08 13:34

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080429D		
Sample ID: MBLK	Method Blank					Run: SUB-C100378			04/29/08 16:10
Selenium	ND	mg/L	6E-05						
Sample ID: 288-66-6	Laboratory Control Sample					Run: SUB-C100378			04/29/08 16:12
Selenium	0.053	mg/L	0.0010	107	90	110			
Sample ID: R08040287-001E	Sample Matrix Spike					Run: SUB-C100378			04/29/08 16:58
Selenium	0.054	mg/L	0.0010	107	85	115			
Sample ID: R08040287-001E	Sample Matrix Spike Duplicate					Run: SUB-C100378			04/29/08 17:00
Selenium	0.052	mg/L	0.0010	105	85	115	2.3	10	
Method: A4500-H B							Batch: 080428_1_PH-W		
Sample ID: LCS_pH-1_080428	Laboratory Control Sample					Run: PH_COND2-R_080428A			04/28/08 10:25
pH	6.93	s.u.	0.010	101	98.55	101.45			
Sample ID: R08040287-002ADUP	Sample Duplicate					Run: PH_COND2-R_080428A			04/28/08 10:45
pH	9.16	s.u.	0.010				0.1	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-04-28_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080428A			04/28/08 15:00
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	104	90	110			
						Run: TECHAA2-R_080428A			04/28/08 15:01
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	100	90	110			
						Run: TECHAA2-R_080428A			04/28/08 15:02
Sample ID: R08040273-003CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.21	mg/L	0.10	86	80	120			
						Run: TECHAA2-R_080428A			04/28/08 16:15
Sample ID: R08040273-003CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.24	mg/L	0.10	94	80	120	9.8	10	
						Run: TECHAA2-R_080428A			04/28/08 16:16
Sample ID: R08040287-003BMS Nitrogen, Ammonia as N	Sample Matrix Spike 1.0	mg/L	0.10	89	80	120			
						Run: TECHAA2-R_080428A			04/28/08 16:31
Sample ID: R08040287-003BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 1.0	mg/L	0.10	81	80	120	2.0	10	
						Run: TECHAA2-R_080428A			04/28/08 16:32
Sample ID: R08040290-004EMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.89	mg/L	0.10	55	80	120			
						Run: TECHAA2-R_080428A			04/28/08 17:01 S
Sample ID: R08040290-004EMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.94	mg/L	0.10	77	80	120	6.0	10	
						Run: TECHAA2-R_080428A			04/28/08 17:02 S
Method: D5072-92							Batch: C_R100290		
Sample ID: C08041066-001ADUP Radon 222	Sample Duplicate 2010	pCi/L	100				3.5	30	
						Run: SUB-C100290			04/24/08 13:29
Sample ID: MB-R100290 Radon 222	Method Blank 20	pCi/L							
						Run: SUB-C100290			04/24/08 13:29
Sample ID: LCS-R100290 Radon 222	Laboratory Control Sample 304	pCi/L	100	95	70	130			
						Run: SUB-C100290			04/24/08 13:29

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18465		
Sample ID: MB-18465	Method Blank				Run: SUB-C100898		05/08/08 23:51		
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-18465	Laboratory Control Sample				Run: SUB-C100898		05/08/08 23:55		
Boron	0.499	mg/L	0.10	100	85	115			
Iron	2.85	mg/L	0.030	114	85	115			
Sample ID: C08041226-001B MS3	Sample Matrix Spike				Run: SUB-C100898		05/09/08 01:28		
Boron	5.98	mg/L	0.10		70	130			A
Iron	2.59	mg/L	0.043	104	70	130			
Sample ID: C08041226-001B MSD3	Sample Matrix Spike Duplicate				Run: SUB-C100898		05/09/08 01:32		
Boron	5.81	mg/L	0.10		70	130	2.9	20	A
Iron	2.53	mg/L	0.043	101	70	130	2.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R100898		
Sample ID: MB-080508A	Method Blank		Run: SUB-C100898				05/08/08 13:02		
Silica	0.02	mg/L							
Aluminum	ND	mg/L	0.004						
Boron	0.02	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Sample ID: LFB-080508A	Laboratory Fortified Blank		Run: SUB-C100898				05/08/08 13:06		
Silica	0.31	mg/L	0.10	57	85	125			S
Aluminum	0.95	mg/L	0.10	95	85	125			
Boron	1.1	mg/L	0.10	103	85	125			
Calcium	54	mg/L	0.50	108	85	125			
Iron	1.1	mg/L	0.030	106	85	125			
Magnesium	53	mg/L	0.50	107	85	125			
Potassium	46	mg/L	0.50	93	85	125			
Sodium	51	mg/L	0.77	102	85	125			
Sample ID: R08040287-004C	Sample Matrix Spike		Run: SUB-C100898				05/08/08 21:45		
Aluminum	2.06	mg/L	0.10	100	70	130			
Boron	2.17	mg/L	0.10	104	70	130			
Iron	4.56	mg/L	0.030	101	70	130			
Calcium	466	mg/L	1.0	98	70	130			
Magnesium	232	mg/L	1.0	102	70	130			
Potassium	109	mg/L	1.0	91	70	130			
Silica	6.57	mg/L	0.10	88	70	130			
Sodium	191	mg/L	1.5	99	70	130			
Sample ID: R08040287-004C	Sample Matrix Spike Duplicate		Run: SUB-C100898				05/08/08 21:49		
Aluminum	2.01	mg/L	0.10	97	70	130	2.7	20	
Boron	2.19	mg/L	0.10	106	70	130	1.0	20	
Iron	4.58	mg/L	0.030	102	70	130	0.5	20	
Calcium	463	mg/L	1.0	95	70	130	0.6	20	
Magnesium	233	mg/L	1.0	102	70	130	0.3	20	
Potassium	108	mg/L	1.0	90	70	130	0.9	20	
Silica	6.67	mg/L	0.10	93	70	130	1.5	20	
Sodium	190	mg/L	1.5	99	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18450		
Sample ID: MB-18450	Method Blank				Run: SUB-C100604		05/05/08 05:17		
Uranium	4E-05	mg/L	2E-05						
Sample ID: LCS1-18450	Laboratory Control Sample				Run: SUB-C100604		05/05/08 05:21		
Uranium	0.0505	mg/L	0.00030	96	80	120			
Sample ID: R08040287-003I	Post Digestion Spike				Run: SUB-C100604		05/05/08 06:19		
Uranium	0.0132	mg/L	0.00030	98	70	130			
Sample ID: R08040287-003I	Post Digestion Spike Duplicate				Run: SUB-C100604		05/05/08 06:23		
Uranium	0.0135	mg/L	0.00030	100	70	130	2.0	20	
Method: E200.8							Batch: C_18459		
Sample ID: MB-18459	Method Blank				Run: SUB-C100604		05/05/08 06:27		
Uranium	3E-05	mg/L	1E-05						
Sample ID: LCS1-18459	Laboratory Control Sample				Run: SUB-C100604		05/05/08 06:44		
Uranium	0.0473	mg/L	0.00030	95	80	120			
Sample ID: C08041156-006FMS4	Post Digestion Spike				Run: SUB-C100604		05/05/08 07:42		
Uranium	0.0131	mg/L	0.00030	94	70	130			
Sample ID: C08041156-006FMSD4	Post Digestion Spike Duplicate				Run: SUB-C100604		05/05/08 07:46		
Uranium	0.0132	mg/L	0.00030	95	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18465		
Sample ID: MB-18465	Method Blank		Run: SUB-C100685			05/05/08 15:37			
Antimony	ND	mg/L	0.0002						
Arsenic	0.0004	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	0.0007	mg/L	5E-05						
Copper	ND	mg/L	0.0001						
Lead	2E-05	mg/L							
Manganese	0.0002	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	7E-05	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	8E-05	mg/L	3E-05						
Uranium	4E-05	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS3-18465	Laboratory Control Sample		Run: SUB-C100685			05/05/08 15:43			
Antimony	0.545	mg/L	0.050	109	85	115			
Arsenic	0.544	mg/L	0.0010	109	85	115			
Barium	0.540	mg/L	0.10	108	85	115			
Cadmium	0.266	mg/L	0.010	107	85	115			
Chromium	0.540	mg/L	0.050	108	85	115			
Copper	0.524	mg/L	0.010	105	85	115			
Lead	0.523	mg/L	0.050	105	85	115			
Manganese	2.86	mg/L	0.010	114	85	115			
Molybdenum	0.523	mg/L	0.10	105	85	115			
Nickel	0.531	mg/L	0.050	106	85	115			
Selenium	0.548	mg/L	0.0020	110	85	115			
Silver	0.0497	mg/L	0.010	99	85	115			
Strontium	0.563	mg/L	0.10	113	85	115			
Thallium	0.521	mg/L	0.10	104	85	115			
Uranium	0.525	mg/L	0.00032	105	85	115			
Zinc	0.552	mg/L	0.010	110	85	115			
Sample ID: C08041226-001BMS3	Sample Matrix Spike		Run: SUB-C100685			05/05/08 17:38			
Antimony	0.606	mg/L	0.050	121	70	130			
Arsenic	0.609	mg/L	0.0010	121	70	130			
Barium	0.656	mg/L	0.10	123	70	130			
Cadmium	0.285	mg/L	0.010	114	70	130			
Chromium	0.568	mg/L	0.050	113	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18465		
Sample ID: C08041226-001BMS3	Sample Matrix Spike			Run: SUB-C100685			05/05/08 17:38		
Copper	0.598	mg/L	0.010	114	70	130			
Lead	0.588	mg/L	0.050	117	70	130			
Manganese	2.99	mg/L	0.010	120	70	130			
Molybdenum	0.601	mg/L	0.10	120	70	130			
Nickel	1.06	mg/L	0.050	123	70	130			
Selenium	0.600	mg/L	0.0020	117	70	130			
Silver	0.0528	mg/L	0.010	106	70	130			
Strontium	2.29	mg/L	0.10	162	70	130			S
Thallium	0.587	mg/L	0.10	117	70	130			
Uranium	0.621	mg/L	0.00032	124	70	130			
Zinc	0.552	mg/L	0.010	108	70	130			
Sample ID: C08041226-001BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C100685			05/05/08 18:05		
Antimony	0.586	mg/L	0.050	117	70	130	3.3	20	
Arsenic	0.575	mg/L	0.0010	114	70	130	5.8	20	
Barium	0.607	mg/L	0.10	113	70	130	7.7	20	
Cadmium	0.268	mg/L	0.010	107	70	130	6.1	20	
Chromium	0.530	mg/L	0.050	105	70	130	7.0	20	
Copper	0.565	mg/L	0.010	107	70	130	5.7	20	
Lead	0.559	mg/L	0.050	112	70	130	5.1	20	
Manganese	2.81	mg/L	0.010	112	70	130	6.3	20	
Molybdenum	0.580	mg/L	0.10	116	70	130	3.5	20	
Nickel	1.02	mg/L	0.050	115	70	130	4.0	20	
Selenium	0.566	mg/L	0.0020	110	70	130	5.7	20	
Silver	0.0502	mg/L	0.010	100	70	130	5.0	20	
Strontium	2.22	mg/L	0.10	148	70	130	3.2	20	S
Thallium	0.555	mg/L	0.10	111	70	130	5.6	20	
Uranium	0.582	mg/L	0.00032	116	70	130	6.4	20	
Zinc	0.525	mg/L	0.010	102	70	130	5.0	20	
Sample ID: MB-18465	Method Blank			Run: SUB-C100732			05/06/08 19:39		
Beryllium	ND	mg/L	0.0001						
Sample ID: LCS3-18465	Laboratory Control Sample			Run: SUB-C100732			05/06/08 19:46		
Beryllium	0.256	mg/L	0.010	102	85	115			
Sample ID: C08041226-001BMS3	Sample Matrix Spike			Run: SUB-C100732			05/06/08 21:27		
Beryllium	0.271	mg/L	0.010	108	70	130			
Sample ID: C08041226-001BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C100732			05/06/08 21:34		
Beryllium	0.266	mg/L	0.010	106	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100732		
Sample ID: LRB	Method Blank		Run: SUB-C100732			05/06/08 11:52			
Arsenic	ND	mg/L	6E-05						
Barium	4E-05	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	4E-05	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	0.0001	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	5E-05	mg/L	3E-05						
Thorium 232	0.0001	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C100732			05/06/08 11:59			
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Barium	0.0534	mg/L	0.0010	107	85	115			
Cadmium	0.0525	mg/L	0.0010	105	85	115			
Chromium	0.0514	mg/L	0.0010	103	85	115			
Copper	0.0528	mg/L	0.0010	106	85	115			
Lead	0.0535	mg/L	0.0010	107	85	115			
Manganese	0.0517	mg/L	0.0010	103	85	115			
Mercury	0.00525	mg/L	0.0010	103	85	115			
Molybdenum	0.0524	mg/L	0.0010	105	85	115			
Nickel	0.0530	mg/L	0.0010	106	85	115			
Silver	0.0211	mg/L	0.0010	105	85	115			
Thorium 232	0.0525	mg/L	0.0010	105	85	115			
Uranium	0.0522	mg/L	0.00030	104	85	115			
Vanadium	0.0518	mg/L	0.0010	104	85	115			
Zinc	0.0546	mg/L	0.0010	106	85	115			
Sample ID: R08040287-001C	Post Digestion Spike		Run: SUB-C100732			05/07/08 01:51			
Arsenic	0.0520	mg/L	0.0010	102	70	130			
Barium	0.0607	mg/L	0.10	98	70	130			
Cadmium	0.0494	mg/L	0.010	99	70	130			
Chromium	0.0475	mg/L	0.050	94	70	130			
Copper	0.0505	mg/L	0.010	100	70	130			
Lead	0.0506	mg/L	0.050	101	70	130			
Manganese	0.123	mg/L	0.010	92	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100732		
Sample ID: R08040287-001C	Post Digestion Spike			Run: SUB-C100732			05/07/08 01:51		
Mercury	0.00502	mg/L	0.0010	100	70	130			
Molybdenum	0.0574	mg/L	0.10	106	70	130			
Nickel	0.0511	mg/L	0.050	101	70	130			
Silver	0.0144	mg/L	0.010	72	70	130			
Thorium 232	0.0518	mg/L	0.0010	103	70	130			
Uranium	0.0547	mg/L	0.00030	104	70	130			
Vanadium	0.0487	mg/L	0.10	97	70	130			
Zinc	0.0500	mg/L	0.010	96	70	130			
Sample ID: R08040287-001C	Post Digestion Spike Duplicate			Run: SUB-C100732			05/07/08 01:58		
Arsenic	0.0518	mg/L	0.0010	101	70	130	0.5	20	
Barium	0.0621	mg/L	0.10	101	70	130	0.0	20	
Cadmium	0.0495	mg/L	0.010	99	70	130	0.2	20	
Chromium	0.0497	mg/L	0.050	99	70	130	0.0	20	
Copper	0.0505	mg/L	0.010	100	70	130	0.1	20	
Lead	0.0513	mg/L	0.050	103	70	130	1.4	20	
Manganese	0.128	mg/L	0.010	102	70	130	3.9	20	
Mercury	0.00510	mg/L	0.0010	102	70	130	1.6	20	
Molybdenum	0.0578	mg/L	0.10	107	70	130	0.0	20	
Nickel	0.0506	mg/L	0.050	100	70	130	1.1	20	
Silver	0.0151	mg/L	0.010	76	70	130	5.0	20	
Thorium 232	0.0527	mg/L	0.0010	105	70	130	1.8	20	
Uranium	0.0557	mg/L	0.00030	106	70	130	1.8	20	
Vanadium	0.0513	mg/L	0.10	102	70	130	0.0	20	
Zinc	0.0496	mg/L	0.010	95	70	130	0.8	20	
Sample ID: R08040287-007C	Post Digestion Spike			Run: SUB-C100732			05/07/08 02:45		
Arsenic	0.0524	mg/L	0.0010	103	70	130			
Barium	0.0648	mg/L	0.10	102	70	130			
Cadmium	0.0502	mg/L	0.010	100	70	130			
Chromium	0.0488	mg/L	0.050	97	70	130			
Copper	0.0501	mg/L	0.010	99	70	130			
Lead	0.0518	mg/L	0.050	103	70	130			
Manganese	0.106	mg/L	0.010	97	70	130			
Mercury	0.00507	mg/L	0.0010	101	70	130			
Molybdenum	0.0576	mg/L	0.10	109	70	130			
Nickel	0.0506	mg/L	0.050	101	70	130			
Silver	0.0152	mg/L	0.010	76	70	130			
Thorium 232	0.0535	mg/L	0.0010	107	70	130			
Uranium	0.0541	mg/L	0.00030	108	70	130			
Vanadium	0.0500	mg/L	0.10	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R100732		
Sample ID: R08040287-007C	Post Digestion Spike			Run: SUB-C100732			05/07/08 02:45		
Zinc	0.0501	mg/L	0.010	96	70	130			
Sample ID: R08040287-007C	Post Digestion Spike Duplicate			Run: SUB-C100732			05/07/08 03:12		
Arsenic	0.0532	mg/L	0.0010	104	70	130	1.4	20	
Barium	0.0644	mg/L	0.10	101	70	130	0.0	20	
Cadmium	0.0496	mg/L	0.010	99	70	130	1.1	20	
Chromium	0.0492	mg/L	0.050	98	70	130	0.0	20	
Copper	0.0508	mg/L	0.010	101	70	130	1.5	20	
Lead	0.0515	mg/L	0.050	103	70	130	0.5	20	
Manganese	0.106	mg/L	0.010	98	70	130	0.5	20	
Mercury	0.00515	mg/L	0.0010	103	70	130	1.6	20	
Molybdenum	0.0573	mg/L	0.10	108	70	130	0.0	20	
Nickel	0.0510	mg/L	0.050	102	70	130	0.7	20	
Silver	0.0168	mg/L	0.010	84	70	130	9.7	20	
Thorium 232	0.0537	mg/L	0.0010	107	70	130	0.4	20	
Uranium	0.0534	mg/L	0.00030	106	70	130	1.5	20	
Vanadium	0.0503	mg/L	0.10	100	70	130	0.0	20	
Zinc	0.0501	mg/L	0.010	96	70	130	0.0	20	
Method: E200.8							Batch: C_R100862		
Sample ID: LRB	Method Blank			Run: SUB-C100862			05/08/08 12:41		
Aluminum	ND	mg/L	0.0001						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C100862			05/08/08 12:48		
Aluminum	0.0519	mg/L	0.0010	104	85	115			
Sample ID: C08040783-001KMS4	Post Digestion Spike			Run: SUB-C100862			05/08/08 14:50		
Aluminum	0.0503	mg/L	0.10	98	70	130			
Sample ID: C08040783-001KMSD4	Post Digestion Spike Duplicate			Run: SUB-C100862			05/08/08 14:56		
Aluminum	0.0494	mg/L	0.10	96	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_32271		
Sample ID: MB-32271	Method Blank			Run: SUB-C100762		05/06/08 16:10			
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32271	Laboratory Fortified Blank			Run: SUB-C100762		05/06/08 16:12			
Mercury	0.0019	mg/L	0.0010	93	85	115			
Sample ID: B08050247-007DMS	Sample Matrix Spike			Run: SUB-C100762		05/06/08 16:55			
Mercury	0.0020	mg/L	0.0010	102	70	130			
Sample ID: B08050247-007DMSD	Sample Matrix Spike Duplicate			Run: SUB-C100762		05/06/08 16:57			
Mercury	0.0019	mg/L	0.0010	96	70	130	5.6	30	
Method: E300.0							Batch: G_R159465		
Sample ID: LCS	Laboratory Control Sample			Run: SUB-G159465		05/10/08 14:58			
Chloride	28.1	mg/L	1.0	93	90	110			
Fluoride	20.2	mg/L	0.10	100	90	110			
Sulfate	142	mg/L	1.0	94	90	110			
Sample ID: MBLK	Method Blank			Run: SUB-G159465		05/10/08 15:10			
Chloride	ND	mg/L	0.08						
Fluoride	ND	mg/L	0.007						
Sulfate	ND	mg/L	0.04						
Sample ID: G08050352-005AMS	Sample Matrix Spike			Run: SUB-G159465		05/10/08 21:11			
Chloride	191	mg/L	1.0	95	80	120			
Fluoride	19.4	mg/L	0.10	97	80	120			
Sulfate	559	mg/L	1.0	94	80	120			
Sample ID: G08050352-005AMSD	Sample Matrix Spike Duplicate			Run: SUB-G159465		05/10/08 21:23			
Chloride	193	mg/L	1.0	96	80	120	0.7	20	
Fluoride	19.6	mg/L	0.10	97	80	120	0.7	20	
Sulfate	561	mg/L	1.0	95	80	120	0.3	20	
Sample ID: G08050354-007BMS	Sample Matrix Spike			Run: SUB-G159465		05/11/08 08:04			
Chloride	1060	mg/L	2.1	100	80	120			
Fluoride	99.9	mg/L	0.18	101	80	120			
Sample ID: G08050354-007BMSD	Sample Matrix Spike Duplicate			Run: SUB-G159465		05/11/08 08:16			
Chloride	1080	mg/L	2.1	102	80	120	1.8	20	
Fluoride	102	mg/L	0.18	103	80	120	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: G_R159560		
Sample ID: LCS	Laboratory Control Sample				Run: SUB-G159560		05/12/08 13:35		
Sulfate	137	mg/L	1.0	91	90	110			
Sample ID: MBLK	Method Blank				Run: SUB-G159560		05/12/08 13:46		
Sulfate	ND	mg/L	0.04						
Sample ID: G08050391-001AMS	Sample Matrix Spike				Run: SUB-G159560		05/12/08 14:45		
Sulfate	320	mg/L	1.0	99	80	120			
Sample ID: G08050391-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-G159560		05/12/08 14:56		
Sulfate	319	mg/L	1.0	99	80	120	0.4	20	
Method: E353.2							Batch: A2008-04-24_3_NO2_01		
Sample ID: MBLK-2	Method Blank				Run: TECHAA1-R_080424A		04/24/08 11:53		
Nitrogen, Nitrite as N	ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA1-R_080424A		04/24/08 11:55		
Nitrogen, Nitrite as N	0.275	mg/L	0.050	110	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA1-R_080424A		04/24/08 11:57		
Nitrogen, Nitrite as N	0.269	mg/L	0.050	108	90	110			
Sample ID: R08040287-001AMS	Sample Matrix Spike				Run: TECHAA1-R_080424A		04/24/08 12:17		
Nitrogen, Nitrite as N	0.260	mg/L	0.050	104	90	110			
Sample ID: R08040287-001AMSD	Sample Matrix Spike Duplicate				Run: TECHAA1-R_080424A		04/24/08 12:19		
Nitrogen, Nitrite as N	0.269	mg/L	0.050	108	90	110	3.4	10	
Sample ID: R08040290-004BMS	Sample Matrix Spike				Run: TECHAA1-R_080424A		04/24/08 13:09		
Nitrogen, Nitrite as N	0.293	mg/L	0.050	107	90	110			
Sample ID: R08040290-004BMSD	Sample Matrix Spike Duplicate				Run: TECHAA1-R_080424A		04/24/08 13:11		
Nitrogen, Nitrite as N	0.293	mg/L	0.050	107	90	110	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0440		
Sample ID: MB-GrAB-0440	Method Blank								
Gross Alpha	-0.2	pCi/L							U
Gross Beta	-2	pCi/L							U
Sample ID: UNAT-GrAB-0440	Laboratory Control Sample								
Gross Alpha	260	pCi/L	105		70	130			05/10/08 05:58
Sample ID: Cs137-GrAB-0440	Laboratory Control Sample								
Gross Beta	78	pCi/L		84	70	130			05/10/08 05:58
Sample ID: C08041059-001DMS	Sample Matrix Spike								
Gross Alpha	317	pCi/L		130	70	130			05/10/08 05:58
Sample ID: C08041059-001DMSD	Sample Matrix Spike Duplicate								
Gross Alpha	317	pCi/L		130	70	130	0.1	15.5	05/10/08 05:58
Sample ID: C08041059-001DMS	Sample Matrix Spike								
Gross Beta	95.7	pCi/L		103	70	130			05/10/08 05:58
Sample ID: C08041059-001DMSD	Sample Matrix Spike Duplicate								
Gross Beta	98.7	pCi/L		106	70	130	3.1	16	05/10/08 05:58
Method: E901.1							Batch: C_R100708		
Sample ID: LCS-R100708	Laboratory Control Sample								
Americium 241	720	pCi/L	20	88	70	130			05/01/08 17:22
Cesium 137	1200	pCi/L	20	109	70	130			
Sample ID: MB-R100708	Method Blank								
Gross Gamma	ND	pCi/L							05/01/08 17:22
Sample ID: R08040364-001H	Sample Duplicate								
Gross Gamma	ND	pCi/L	20				0.0	30	U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18450		
Sample ID: C08041110-001AMS Radium 226	Sample Matrix Spike 125	pCi/Filter		101	70	130			05/06/08 15:27
Sample ID: C08041110-001AMSD Radium 226	Sample Matrix Spike Duplicate 127	pCi/Filter		102	70	130	1.2	25.7	05/06/08 15:27
Sample ID: LCS-18450 Radium 226	Laboratory Control Sample 13	pCi/L		109	70	130			05/06/08 15:27
Sample ID: MB-18450 Radium 226	Method Blank -2	pCi/L							05/06/08 15:27 U
Method: E903.0							Batch: C_R101119		
Sample ID: C08041156-005FMS Radium 226	Sample Matrix Spike 120	pCi/L		94	70	130			05/13/08 13:14
Sample ID: C08041156-005FMDS Radium 226	Sample Matrix Spike Duplicate 110	pCi/L		91	70	130	3.5	24.7	05/13/08 13:14
Sample ID: LCS-18459 Radium 226	Laboratory Control Sample 11	pCi/L		95	70	130			05/13/08 14:53
Sample ID: MB-18459 Radium 226	Method Blank -0.8	pCi/L							05/13/08 14:53 U
Method: E903.0							Batch: C_RA226-2771		
Sample ID: C08041060-002HMS Radium 226	Sample Matrix Spike 12	pCi/L		90	70	130			05/13/08 08:49
Sample ID: C08041060-002HMDS Radium 226	Sample Matrix Spike Duplicate 12	pCi/L		93	70	130	2.4	21.9	05/13/08 08:49
Sample ID: MB-RA226-2771 Radium 226	Method Blank -0.03	pCi/L							05/13/08 13:15 U
Sample ID: LCS-RA226-2771 Radium 226	Laboratory Control Sample 5.3	pCi/L		83	70	130			05/13/08 13:15

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0 Batch: C_18450									
Sample ID: C08041060-004IMS Thorium 230	Sample Matrix Spike 21.6	pCi/L	0.20	98	70	130			05/01/08 15:30
									Run: SUB-C100959
Sample ID: C08041060-004IMSD Thorium 230	Sample Matrix Spike Duplicate 18.9	pCi/L	0.20	82	70	130	13	30	05/01/08 15:30
									Run: SUB-C100959
Sample ID: LCS-18450 Thorium 230	Laboratory Control Sample 47.0	pCi/L	0.20	98	70	130			05/01/08 15:30
									Run: SUB-C100959
Sample ID: MB-18450 Thorium 230	Method Blank ND	pCi/L							05/01/08 15:30
									Run: SUB-C100959
Method: E907.0 Batch: C_18459									
Sample ID: C08041170-001AMS Thorium 230	Sample Matrix Spike 42.4	pCi/Filter	0.20	99	70	130			05/02/08 15:30
									Run: SUB-C100981
Sample ID: C08041170-001AMSD Thorium 230	Sample Matrix Spike Duplicate 50.6	pCi/Filter	0.20	109	70	130	18	30	05/02/08 15:30
									Run: SUB-C100981
Sample ID: LCS-18459 Thorium 230	Laboratory Control Sample 9.40	pCi/L	0.20	90	70	130			05/02/08 15:30
									Run: SUB-C100981
Sample ID: MB-18459 Thorium 230	Method Blank ND	pCi/L							05/02/08 15:30
									Run: SUB-C100981
Method: E907.0 Batch: C_R100724									
Sample ID: LCS-R100724 Thorium 230	Laboratory Control Sample 7.20	pCi/L	0.20	103	70	130			04/29/08 15:30
									Run: SUB-C100724
Sample ID: R08040287-001H Thorium 230	Sample Matrix Spike 9.50	pCi/L	0.20	97	70	130			04/29/08 15:30
									Run: SUB-C100724
Sample ID: R08040287-001H Thorium 230	Sample Matrix Spike Duplicate 9.40	pCi/L	0.20	96	70	130	1.1	30	04/29/08 15:30
									Run: SUB-C100724
Sample ID: MB-R100724 Thorium 230	Method Blank ND	pCi/L							04/29/08 15:30
									Run: SUB-C100724

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_18450		
Sample ID: C08041052-003BMS	Sample Matrix Spike				Run: SUB-C101784				05/16/08 07:00
Lead 210	1000	pCi/L	1.0	85	70	130			
Sample ID: C08041052-003BMSD	Sample Matrix Spike Duplicate				Run: SUB-C101784				05/16/08 07:00
Lead 210	1200	pCi/L	1.0	101	70	130	18	30	
Sample ID: MB-R101784	Method Blank				Run: SUB-C101784				05/16/08 07:00
Lead 210	ND	pCi/L							
Sample ID: LCS-R101784	Laboratory Control Sample				Run: SUB-C101784				05/16/08 07:00
Lead 210	130	pCi/L	1.0	106	70	130			
Method: E909.0M							Batch: C_18459		
Sample ID: C08041156-003FMS	Sample Matrix Spike				Run: SUB-C101646				05/14/08 06:30
Lead 210	570	pCi/L	1.0	48	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MSD is acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08041156-003FMSD	Sample Matrix Spike Duplicate				Run: SUB-C101646				05/14/08 06:30
Lead 210	940	pCi/L	1.0	79	70	130	49	30	R
Sample ID: MB-R101646	Method Blank				Run: SUB-C101646				05/14/08 06:30
Lead 210	ND	pCi/L							
Sample ID: LCS-R101646	Laboratory Control Sample				Run: SUB-C101646				05/14/08 06:30
Lead 210	120	pCi/L	1.0	100	70	130			
Method: E909.0M							Batch: C_R102383		
Sample ID: R08040287-004H	Sample Matrix Spike				Run: SUB-C102383				05/23/08 08:45
Lead 210	600	pCi/L	1.0	102	70	130			
Sample ID: R08040287-004H	Sample Matrix Spike Duplicate				Run: SUB-C102383				05/23/08 08:45
Lead 210	700	pCi/L	1.0	119	70	130	16	30	
Sample ID: MB-R102383	Method Blank				Run: SUB-C102383				05/23/08 08:45
Lead 210	ND	pCi/L							
Sample ID: LCS-R102383	Laboratory Control Sample				Run: SUB-C102383				05/23/08 08:45
Lead 210	130	pCi/L	1.0	114	70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/24/08
 Work Order: R08040287

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_18459		
Sample ID: C08041156-006FMS	Sample Matrix Spike				Run: SUB-C100914		05/06/08 12:00		
Polonium 210	99	pCi/L	1.0	108	70	130			
Sample ID: C08041156-006FMSD	Sample Matrix Spike Duplicate				Run: SUB-C100914		05/06/08 12:00		
Polonium 210	93	pCi/L	1.0	101	70	130	6.2	30	
Sample ID: MB-18459	Method Blank				Run: SUB-C100914		05/06/08 12:00		
Polonium 210	1	pCi/L							
Sample ID: LCS-18459	Laboratory Control Sample				Run: SUB-C100914		05/06/08 12:00		
Polonium 210	180	pCi/L	1.0	105	70	130			
Method: RMO-3008							Batch: C_R100704		
Sample ID: R08040287-003I	Sample Matrix Spike				Run: SUB-C100704		05/01/08 14:15		
Polonium 210	88	pCi/L	1.0	107	70	130			
Sample ID: R08040287-003I	Sample Matrix Spike Duplicate				Run: SUB-C100704		05/01/08 14:15		
Polonium 210	89	pCi/L	1.0	107	70	130	0.8	30	
Sample ID: LCS-18424	Laboratory Control Sample				Run: SUB-C100704		05/01/08 14:15		
Polonium 210	180	pCi/L	1.0	102	70	130			
Sample ID: MB-18424	Method Blank				Run: SUB-C100704		05/01/08 14:15		
Polonium 210	0.5	pCi/L							U
Method: RMO-3008							Batch: C_R100979		
Sample ID: R08040364-007H	Sample Matrix Spike				Run: SUB-C100979		05/06/08 17:00		
Polonium 210	160	pCi/L	1.0	90	70	130			
Sample ID: R08040364-007H	Sample Matrix Spike Duplicate				Run: SUB-C100979		05/06/08 17:00		
Polonium 210	150	pCi/L	1.0	88	70	130	1.9	30	
Sample ID: LCS-R100979	Laboratory Control Sample				Run: SUB-C100979		05/06/08 17:00		
Polonium 210	81	pCi/L	1.0	92	70	130			
Sample ID: MB-R100979	Method Blank				Run: SUB-C100979		05/06/08 17:00		
Polonium 210	0.9	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

Company Name: LESIEZ		Project Name, PWS #, Permit #, Etc.: Power Tech Perry Budok	
Report Mail Address: LESIEZ		Contract Name, Phone, Fax, E-mail: Cor. Foreman & Resper con	
Invoice Address: LESIEZ		Invoice Contact & Phone #: Cor. Foreman Resper con	
Report Required For: <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> DW <input type="checkbox"/>		Purchase Order #:	
Special Report Formats - ELL must be notified prior to sample submittal for the following: NELAC <input type="checkbox"/> A2LA <input type="checkbox"/> Level IV <input type="checkbox"/>		ELI Quote #:	
Other: _____		Notify ELL prior to RUSH sample submittal for additional charges and scheduling	
EDED/EDT <input type="checkbox"/> Format: _____		Comments: All Groundwater	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		SEE ATTACHED	
Collection Date		Normal Turnaround (TAT)	
Collection Time		RUSH Turnaround (TAT)	
MATRIX		Number of Containers	
		Sample Type: A W S V B O	
		Air Water Soils/Solids Vegetation	
		Bioassay Other	
1 Dew Bud GW 695		4/21/08 12:46 W	
2 Dew Bud GW 688		4/21/08 13:26 W	
3 Dew Bud GW 3022		4/21/08 14:30 W	
4 Dew Bud GW 698		4/21/08 11:30 W	
5 Dew Bud GW 697		4/21/08 12:02 W	
6 Dew Bud S/LK 01		4/21/08 15:57 W	
7 Dew Bud GW 696		4/21/08 16:58 W	
8			
9			
10			
Custody Record MUST be Signed		LABORATORY USE ONLY	
Rain/Inhibited by: _____		Received by: _____	
Rain/Inhibited by: _____		Received by: _____	
Date/Time: _____		Date/Time: _____	
Sample Disposal: _____		Sample Type: _____	
Return to client: _____		# of fractions: _____	
Lab Disposal: _____		LABORATORY USE ONLY	

Visit our web site at www.energylab.com for additional information, downloadable fee schedule forms & lists.

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report.



ANALYTICAL SUMMARY REPORT

June 27, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08040364 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 7 samples from RESPEC Inc on 4/30/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08040364-001	DewBurd GW676	04/29/08 12:27	04/30/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Hg By CVAA, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrite Nitrogen, Nitrate + Nitrite Nitrogen, Nitrate Only Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08040364-002	DewBurd GW678	04/29/08 13:41	04/30/08	Aqueous	Same As Above
R08040364-003	DewBurd GW677	04/29/08 15:14	04/30/08	Aqueous	Same As Above
R08040364-004	DewBurd GW675	04/29/08 17:47	04/30/08	Aqueous	Same As Above
R08040364-005	DewBurd GW675	04/29/08 17:50	04/30/08	Aqueous	Same As Above



R08040364-006 DewBurd BLK01	04/29/08 18:00 04/30/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Hg By CVAA, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrite Nitrogen, Nitrate + Nitrite Nitrogen, Nitrate Only Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08040364-007 DewBurd GW635	04/29/08 19:00 04/30/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Hg By CVAA, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrite Nitrogen, Nitrate + Nitrite Nitrogen, Nitrate Only Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved



As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____

A handwritten signature in black ink, appearing to read "Linda Larson", written over a horizontal line.

Linda Larson

Rapid City - Project Manager



CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 4/30/2008 8:05:00 AM. These samples were assigned ELI Workorder Number R08040364.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

-The total Mercury analysis was not run within hold due to lab error. The method used was a standard method cold vapor analysis. It is an approved method and was the method available at the time of analysis.

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-001
 Client Sample ID: DewBurd GW676

Report Date: 06/27/08
 Collection Date: 04/29/08 12:27
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	220	mg/L		5			1	A2320 B	05/01/08 10:37/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	05/01/08 10:37/mb
Bicarbonate as HCO3	268	mg/L		5			1	A2320 B	05/01/08 10:37/mb
Calcium	561	mg/L		0.5			2	E200.7	05/19/08 15:47/eli-c
Chloride	13	mg/L		1			5	E300.0	05/12/08 22:06/eli-g
Fluoride	0.3	mg/L		0.1			5	E300.0	05/12/08 22:06/eli-g
Magnesium	129	mg/L		0.5			2	E200.7	05/19/08 15:47/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	05/06/08 15:00/jmh
Potassium	10.9	mg/L		0.5			2	E200.7	05/19/08 15:47/eli-c
Silica	6.4	mg/L		0.5			2	E200.7	05/19/08 15:47/eli-c
Sodium	94	mg/L	D	2			2	E200.7	05/19/08 15:47/eli-c
Sulfate	1760	mg/L		1			25	E300.0	05/11/08 05:21/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	3100	umhos/cm		5.0			1	A2510 B	05/08/08 14:14/tb
Oxidation-Reduction Potential	280	mV					1	A2580 B	05/05/08 00:00/jmh
pH	7.46	s.u.		0.01			1	A4500-H B	05/06/08 14:10/jmh
Sodium Adsorption Ratio (SAR)	0.93	unitless		0.10			1	Calculation	06/18/08 18:05/ADM
Solids, Total Dissolved TDS @ 180 C	2600	mg/L		5			1	A2540 C	05/01/08 15:03/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	05/19/08 15:47/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	05/20/08 12:31/eli-c
Barium	ND	mg/L		0.1			2	E200.7	05/19/08 15:47/eli-c
Boron	0.5	mg/L		0.1			2	E200.7	05/19/08 15:47/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/20/08 12:31/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/19/08 15:47/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/20/08 12:31/eli-c
Iron	ND	mg/L		0.03			2	E200.7	05/19/08 15:47/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/20/08 12:31/eli-c
Manganese	ND	mg/L		0.01			2	E200.7	05/19/08 15:47/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/20/08 12:31/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	05/19/08 15:47/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	05/19/08 15:47/eli-c
Selenium	0.009	mg/L		0.001			1	A3114 B	05/08/08 16:40/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/20/08 12:31/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	05/20/08 12:31/eli-c
Uranium	0.0557	mg/L		0.0003			1	E200.8	05/20/08 12:31/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-001
 Client Sample ID: DewBurd GW676

Report Date: 06/27/08
 Collection Date: 04/29/08 12:27
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		2	E200.7	05/19/08 15:47/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/19/08 15:47/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/18/08 13:13/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	0.76	mg/L		0.05		1	E353.2	05/14/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	05/01/08 12:50/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/08/08 11:30/eli-ca
Selenium-VI	0.009	mg/L		0.001		1	A3114 B	05/09/08 10:02/eli-ca
METALS, TOTAL								
Mercury	ND	mg/L	H	0.00010		1	A3112 B	06/12/08 14:24/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	51.6	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha precision (±)	9.1	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha MDC	8.5	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta	9.2	pCi/L	U			1	E900.0	05/20/08 10:25/eli-c
Gross Beta precision (±)	5.8	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta MDC	9.4	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Lead 210	-0.9	pCi/L	U	1.0		1	E909.0M	05/27/08 08:30/eli-c
Lead 210 precision (±)	14.3	pCi/L				1	E909.0M	05/27/08 08:30/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	0.2	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 MDC	0.08	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	05/21/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	05/21/08 15:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-6.7	pCi/L	U	1.0		1	E909.0M	05/22/08 09:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-001
 Client Sample ID: DewBurd GW676

Report Date: 06/27/08
 Collection Date: 04/29/08 12:27
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Lead 210 precision (±)	12.9	pCi/L					1	E909.0M	05/22/08 09:00/eli-c
Polonium 210	0.1	pCi/L	U	1.0			1	RMO-3008	06/02/08 13:40/eli-c
Polonium 210 precision (±)	0.31	pCi/L					1	RMO-3008	06/02/08 13:40/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	05/19/08 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	05/19/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	755	pCi/L		100			1	D5072-92	05/04/08 18:36/eli-c
Radon 222 precision (±)	96.4	pCi/L					1	D5072-92	05/04/08 18:36/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/08/08 23:42/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	05/08/08 23:42/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/08/08 23:42/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/08/08 23:42/eli-c
Boron	0.4	mg/L		0.1			2	E200.7	05/09/08 02:05/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/08/08 23:42/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/08/08 23:42/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/08/08 23:42/eli-c
Iron	0.57	mg/L		0.03			2	E200.7	05/09/08 02:05/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/08/08 23:42/eli-c
Manganese	0.03	mg/L		0.01			1	E200.8	05/08/08 23:42/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/08/08 23:42/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/08/08 23:42/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/08/08 23:42/eli-c
Selenium	0.012	mg/L		0.001			1	E200.8	05/08/08 23:42/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/08/08 23:42/eli-c
Strontium	8.6	mg/L		0.1			1	E200.8	05/08/08 23:42/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/08/08 23:42/eli-c
Uranium	0.0591	mg/L		0.0003			1	E200.8	05/08/08 23:42/eli-c
Zinc	0.03	mg/L		0.01			1	E200.8	05/08/08 23:42/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.76						1	A1030 E	06/19/08 00:00/ADM
Anions	41.4	meq/L					1	A1030 E	06/19/08 00:00/ADM
Cations	430	meq/L					1	A1030 E	06/19/08 00:00/ADM
Solids, Total Dissolved Calculated	2720	mg/L					1	A1030 E	06/19/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	06/19/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-002
 Client Sample ID: DewBurd GW678

Report Date: 06/27/08
 Collection Date: 04/29/08 13:41
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	478	mg/L		5		1	A2320 B	05/01/08 10:51/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/01/08 10:51/mb
Bicarbonate as HCO3	583	mg/L		5		1	A2320 B	05/01/08 10:51/mb
Calcium	457	mg/L		0.5		2	E200.7	05/19/08 16:58/eli-c
Chloride	54	mg/L		1		5	E300.0	05/12/08 22:17/eli-g
Fluoride	1.0	mg/L		0.1		5	E300.0	05/12/08 22:17/eli-g
Magnesium	500	mg/L		0.5		2	E200.7	05/19/08 16:58/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/06/08 15:01/jmh
Potassium	17.4	mg/L		0.5		2	E200.7	05/19/08 16:58/eli-c
Silica	7.9	mg/L		0.5		2	E200.7	05/19/08 16:58/eli-c
Sodium	643	mg/L	D	2		2	E200.7	05/19/08 16:58/eli-c
Sulfate	3740	mg/L		1		25	E300.0	05/11/08 05:32/eli-g
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6300	umhos/cm		5.0		1	A2510 B	05/08/08 14:18/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	05/05/08 00:00/jmh
pH	7.55	s.u.		0.01		1	A4500-H B	05/06/08 14:11/jmh
Sodium Adsorption Ratio (SAR)	4.9	unitless		0.10		1	Calculation	06/18/08 18:05/ADM
Solids, Total Dissolved TDS @ 180 C	5400	mg/L		5		1	A2540 C	05/01/08 15:03/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/19/08 16:58/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/20/08 12:38/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/19/08 16:58/eli-c
Boron	1.4	mg/L		0.1		2	E200.7	05/19/08 16:58/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	05/19/08 16:58/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/19/08 16:58/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/20/08 12:38/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/19/08 16:58/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/20/08 12:38/eli-c
Manganese	2.66	mg/L		0.01		1	E200.8	05/20/08 12:38/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/20/08 12:38/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/19/08 16:58/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/19/08 16:58/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	05/08/08 16:46/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	05/20/08 12:38/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/20/08 12:38/eli-c
Uranium	0.0355	mg/L		0.0003		1	E200.8	05/20/08 12:38/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-002
 Client Sample ID: DewBurd GW678

Report Date: 06/27/08
 Collection Date: 04/29/08 13:41
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	0.2	mg/L		0.1		2	E200.7	05/19/08 16:58/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/19/08 16:58/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/18/08 13:17/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	0.09	mg/L		0.05		1	E353.2	05/14/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	05/01/08 12:56/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/08/08 11:37/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	05/09/08 10:02/eli-ca
METALS, TOTAL								
Mercury	0.00010	mg/L	H	0.00010		1	A3112 B	06/12/08 14:32/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	54.7	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha precision (±)	15.8	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha MDC	18.4	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta	12.8	pCi/L	U			1	E900.0	05/20/08 10:25/eli-c
Gross Beta precision (±)	16.6	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta MDC	27.6	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Lead 210	-1.2	pCi/L	U	1.0		1	E909.0M	05/27/08 08:30/eli-c
Lead 210 precision (±)	23.9	pCi/L				1	E909.0M	05/27/08 08:30/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	0.2	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 precision (±)	0.07	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 MDC	0.08	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	05/29/08 16:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	05/29/08 16:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-1.5	pCi/L	U	1.0		1	E909.0M	05/22/08 09:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-002
 Client Sample ID: DewBurd GW678

Report Date: 06/27/08
 Collection Date: 04/29/08 13:41
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Lead 210 precision (±)	13.0	pCi/L					1	E909.0M	05/22/08 09:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	06/02/08 13:40/eli-c
Polonium 210 precision (±)	0.17	pCi/L					1	RMO-3008	06/02/08 13:40/eli-c
Radium 226	0.7	pCi/L					1	E903.0	05/21/08 08:27/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	05/21/08 08:27/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	05/21/08 08:27/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	05/19/08 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	05/19/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	687	pCi/L		100			1	D5072-92	05/04/08 18:36/eli-c
Radon 222 precision (±)	94.7	pCi/L					1	D5072-92	05/04/08 18:36/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/08/08 23:49/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	05/08/08 23:49/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/08/08 23:49/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/08/08 23:49/eli-c
Boron	1.4	mg/L		0.1			2	E200.7	05/09/08 02:09/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/08/08 23:49/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/08/08 23:49/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/08/08 23:49/eli-c
Iron	ND	mg/L		0.03			2	E200.7	05/09/08 02:09/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/08/08 23:49/eli-c
Manganese	2.61	mg/L		0.01			1	E200.8	05/08/08 23:49/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/08/08 23:49/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/08/08 23:49/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/08/08 23:49/eli-c
Selenium	0.003	mg/L		0.001			1	E200.8	05/08/08 23:49/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/08/08 23:49/eli-c
Strontium	11.0	mg/L		0.1			1	E200.8	05/08/08 23:49/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/08/08 23:49/eli-c
Uranium	0.0387	mg/L		0.0003			1	E200.8	05/08/08 23:49/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/08/08 23:49/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.90						1	A1030 E	06/19/08 00:00/ADM
Anions	89.1	meq/L					1	A1030 E	06/19/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040364-002
Client Sample ID: DewBurd GW678

Report Date: 06/27/08
Collection Date: 04/29/08 13:41
Date Received: 04/30/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
Cations	92.6	meq/L					1	A1030 E	06/19/08 00:00/ADM
Solids, Total Dissolved Calculated	5730	mg/L					1	A1030 E	06/19/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	06/19/08 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-003
 Client Sample ID: DewBurd GW677

Report Date: 06/27/08
 Collection Date: 04/29/08 15:14
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	480	mg/L		5		1	A2320 B	05/01/08 11:00/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/01/08 11:00/mb
Bicarbonate as HCO3	585	mg/L		5		1	A2320 B	05/01/08 11:00/mb
Calcium	516	mg/L		0.5		2	E200.7	05/19/08 17:06/eli-c
Chloride	1710	mg/L	D	2		25	E300.0	05/11/08 05:44/eli-g
Fluoride	0.7	mg/L		0.1		5	E300.0	05/12/08 22:29/eli-g
Magnesium	454	mg/L		0.5		2	E200.7	05/19/08 17:06/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/06/08 15:02/jmh
Potassium	9.8	mg/L		0.5		2	E200.7	05/19/08 17:06/eli-c
Silica	4.2	mg/L		0.5		2	E200.7	05/19/08 17:06/eli-c
Sodium	2140	mg/L	D	8		10	E200.7	06/20/08 15:46/eli-c
Sulfate	4410	mg/L		1		25	E300.0	05/11/08 05:44/eli-g
PHYSICAL PROPERTIES								
Conductivity @ 25 C	12100	umhos/cm		5.0		1	A2510 B	05/08/08 14:22/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	05/05/08 00:00/jmh
pH	7.28	s.u.		0.01		1	A4500-H B	05/06/08 14:11/jmh
Sodium Adsorption Ratio (SAR)	17	unitless		0.10		1	Calculation	06/24/08 10:21/ADM
Solids, Total Dissolved TDS @ 180 C	9100	mg/L		5		1	A2540 C	05/01/08 15:04/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/19/08 17:06/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/20/08 12:45/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/19/08 17:06/eli-c
Boron	0.7	mg/L		0.1		2	E200.7	05/19/08 17:06/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	05/19/08 17:06/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/19/08 17:06/eli-c
Copper	ND	mg/L		0.01		1	E200.7	05/20/08 14:46/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/19/08 17:06/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/20/08 12:45/eli-c
Manganese	1.62	mg/L		0.01		1	E200.8	05/20/08 12:45/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/20/08 12:45/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/19/08 17:06/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/19/08 17:06/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	05/08/08 16:48/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	05/20/08 12:45/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/20/08 12:45/eli-c
Uranium	0.0450	mg/L		0.0003		1	E200.8	05/20/08 12:45/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-003
 Client Sample ID: DewBurd GW677

Report Date: 06/27/08
 Collection Date: 04/29/08 15:14
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		2	E200.7	05/19/08 17:06/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/19/08 17:06/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/18/08 13:22/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	0.11	mg/L		0.05		1	E353.2	05/14/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	05/01/08 12:58/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/08/08 11:39/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	05/09/08 10:02/eli-ca
METALS, TOTAL								
Mercury	ND	mg/L	H	0.00010		1	A3112 B	06/12/08 14:34/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	43.1	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha precision (±)	23.4	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha MDC	32.5	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta	-30	pCi/L	U			1	E900.0	05/20/08 10:25/eli-c
Gross Beta precision (±)	20.5	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta MDC	35.3	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	05/27/08 08:30/eli-c
Lead 210 precision (±)	14.5	pCi/L				1	E909.0M	05/27/08 08:30/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	0.1	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 precision (±)	0.07	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 MDC	0.08	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	05/29/08 16:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/29/08 16:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2.3	pCi/L	U	1.0		1	E909.0M	05/22/08 09:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-003
 Client Sample ID: DewBurd GW677

Report Date: 06/27/08
 Collection Date: 04/29/08 15:14
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Lead 210 precision (±)	13.0	pCi/L					1	E909.0M	05/22/08 09:00/eli-c
Polonium 210	-0.2	pCi/L	U	1.0			1	RMO-3008	06/02/08 13:40/eli-c
Polonium 210 precision (±)	0.024	pCi/L					1	RMO-3008	06/02/08 13:40/eli-c
Radium 226	0.3	pCi/L					1	E903.0	05/21/08 08:27/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	05/21/08 08:27/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	05/21/08 08:27/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	05/19/08 16:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	05/19/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1250	pCi/L		100			1	D5072-92	05/04/08 18:36/eli-c
Radon 222 precision (±)	101	pCi/L					1	D5072-92	05/04/08 18:36/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/08/08 23:55/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	05/08/08 23:55/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/08/08 23:55/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/08/08 23:55/eli-c
Boron	0.7	mg/L		0.1			2	E200.7	05/09/08 02:13/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/08/08 23:55/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/08/08 23:55/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/08/08 23:55/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	05/09/08 02:13/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/08/08 23:55/eli-c
Manganese	1.71	mg/L		0.01			1	E200.8	05/08/08 23:55/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/08/08 23:55/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/08/08 23:55/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/08/08 23:55/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/08/08 23:55/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/08/08 23:55/eli-c
Strontium	11.6	mg/L		0.1			1	E200.8	05/08/08 23:55/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/08/08 23:55/eli-c
Uranium	0.0471	mg/L		0.0003			1	E200.8	05/08/08 23:55/eli-c
Zinc	0.01	mg/L		0.01			1	E200.8	05/08/08 23:55/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.30						1	A1030 E	06/26/08 00:00/jmh
Anions	150	meq/L					1	A1030 E	06/26/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040364-003
Client Sample ID: DewBurd GW677

Report Date: 06/27/08
Collection Date: 04/29/08 15:14
Date Received: 04/30/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Cations	157	meq/L				1	A1030 E	06/26/08 00:00/jmh
Solids, Total Dissolved Calculated	9550	mg/L				1	A1030 E	06/26/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	06/26/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-004
 Client Sample ID: DewBurd GW675

Report Date: 06/27/08
 Collection Date: 04/29/08 17:47
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	422	mg/L		5		1	A2320 B	05/01/08 12:17/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/01/08 12:17/mb
Bicarbonate as HCO3	514	mg/L		5		1	A2320 B	05/01/08 12:17/mb
Calcium	450	mg/L		0.5		2	E200.7	05/19/08 17:10/eli-c
Chloride	64	mg/L		1		5	E300.0	05/12/08 22:41/eli-g
Fluoride	0.5	mg/L		0.1		5	E300.0	05/12/08 22:41/eli-g
Magnesium	408	mg/L		0.5		2	E200.7	05/19/08 17:10/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	05/06/08 15:06/jmh
Potassium	21.7	mg/L		0.5		2	E200.7	05/19/08 17:10/eli-c
Silica	7.3	mg/L		0.5		2	E200.7	05/19/08 17:10/eli-c
Sodium	809	mg/L	D	2		2	E200.7	05/19/08 17:10/eli-c
Sulfate	3810	mg/L		1		25	E300.0	05/11/08 05:56/eli-g
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6560	umhos/cm		5.0		1	A2510 B	05/08/08 14:24/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	05/05/08 00:00/jmh
pH	7.53	s.u.		0.01		1	A4500-H B	05/06/08 14:12/jmh
Sodium Adsorption Ratio (SAR)	6.6	unitless		0.10		1	Calculation	06/18/08 18:05/ADM
Solids, Total Dissolved TDS @ 180 C	5700	mg/L		5		1	A2540 C	05/01/08 15:04/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/19/08 17:10/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/20/08 12:51/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/19/08 17:10/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	05/19/08 17:10/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/20/08 12:51/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/19/08 17:10/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/20/08 12:51/eli-c
Iron	1.88	mg/L		0.03		2	E200.7	05/19/08 17:10/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/20/08 12:51/eli-c
Manganese	3.02	mg/L		0.01		2	E200.7	05/19/08 17:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/20/08 12:51/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/19/08 17:10/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/19/08 17:10/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	05/08/08 16:51/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	05/20/08 12:51/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/20/08 12:51/eli-c
Uranium	0.0493	mg/L		0.0003		1	E200.8	05/20/08 12:51/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-004
 Client Sample ID: DewBurd GW675

Report Date: 06/27/08
 Collection Date: 04/29/08 17:47
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		2	E200.7	05/19/08 17:10/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/19/08 17:10/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/18/08 13:26/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	0.07	mg/L		0.05		1	E353.2	05/14/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	05/01/08 13:01/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/08/08 11:41/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	05/09/08 10:02/eli-ca
METALS, TOTAL								
Mercury	ND	mg/L	H	0.00010		1	A3112 B	06/12/08 14:36/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	55.2	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha precision (±)	15.9	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha MDC	18.4	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta	8.0	pCi/L	U			1	E900.0	05/20/08 10:25/eli-c
Gross Beta precision (±)	16.5	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta MDC	27.4	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	05/27/08 08:30/eli-c
Lead 210 precision (±)	14.5	pCi/L				1	E909.0M	05/27/08 08:30/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	0.2	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 precision (±)	0.09	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 MDC	0.08	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	05/21/08 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	05/21/08 15:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-19.2	pCi/L	U	1.0		1	E909.0M	05/22/08 09:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-004
 Client Sample ID: DewBurd GW675

Report Date: 06/27/08
 Collection Date: 04/29/08 17:47
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Lead 210 precision (±)	12.7	pCi/L				1	E909.0M	05/22/08 09:00/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	06/02/08 13:40/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	RMO-3008	06/02/08 13:40/eli-c
Radium 226	0.7	pCi/L				1	E903.0	05/21/08 08:27/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	05/21/08 08:27/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	05/21/08 08:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	05/19/08 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	05/19/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	960	pCi/L		100		1	D5072-92	05/04/08 18:36/eli-c
Radon 222 precision (±)	95.5	pCi/L				1	D5072-92	05/04/08 18:36/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	05/09/08 00:02/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	05/09/08 00:02/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/09/08 00:02/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	05/09/08 00:02/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	05/09/08 02:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/09/08 00:02/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/09/08 00:02/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/09/08 00:02/eli-c
Iron	5.03	mg/L		0.03		2	E200.7	05/09/08 02:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/09/08 00:02/eli-c
Manganese	3.02	mg/L		0.01		1	E200.8	05/09/08 00:02/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/09/08 00:02/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	05/09/08 00:02/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/09/08 00:02/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	05/09/08 00:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/09/08 00:02/eli-c
Strontium	8.8	mg/L		0.1		1	E200.8	05/09/08 00:02/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	05/09/08 00:02/eli-c
Uranium	0.0502	mg/L		0.0003		1	E200.8	05/09/08 00:02/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/09/08 00:02/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.42					1	A1030 E	06/19/08 00:00/ADM
Anions	89.5	meq/L				1	A1030 E	06/19/08 00:00/ADM

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-004
 Client Sample ID: DewBurd GW675

Report Date: 06/27/08
 Collection Date: 04/29/08 17:47
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Cations	92.1	meq/L					1	A1030 E 06/19/08 00:00/ADM
Solids, Total Dissolved Calculated	5830	mg/L					1	A1030 E 06/19/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E 06/19/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-005
 Client Sample ID: DewBurd GW675

Report Date: 06/27/08
 Collection Date: 04/29/08 17:50
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO ₃	428	mg/L		5		1	A2320 B	05/01/08 14:04/mb
Carbonate as CO ₃	ND	mg/L		5		1	A2320 B	05/01/08 14:04/mb
Bicarbonate as HCO ₃	522	mg/L		5		1	A2320 B	05/01/08 14:04/mb
Calcium	452	mg/L		0.5		2	E200.7	05/19/08 17:14/eli-c
Chloride	64	mg/L		1		5	E300.0	05/12/08 23:16/eli-g
Fluoride	0.5	mg/L		0.1		5	E300.0	05/12/08 23:16/eli-g
Magnesium	416	mg/L		0.5		2	E200.7	05/19/08 17:14/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH ₃ G	05/06/08 15:09/jmh
Potassium	21.4	mg/L		0.5		2	E200.7	05/19/08 17:14/eli-c
Silica	7.4	mg/L		0.5		2	E200.7	05/19/08 17:14/eli-c
Sodium	789	mg/L	D	2		2	E200.7	05/19/08 17:14/eli-c
Sulfate	3840	mg/L		1		25	E300.0	05/11/08 06:07/eli-g
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6530	umhos/cm		5.0		1	A2510 B	05/08/08 14:28/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	05/05/08 00:00/jmh
pH	7.79	s.u.		0.01		1	A4500-H B	05/06/08 14:12/jmh
Sodium Adsorption Ratio (SAR)	6.4	unitless		0.10		1	Calculation	06/18/08 18:05/ADM
Solids, Total Dissolved TDS @ 180 C	4800	mg/L		5		1	A2540 C	05/01/08 15:05/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/19/08 17:14/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/20/08 12:58/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/19/08 17:14/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	05/19/08 17:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/20/08 12:58/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/19/08 17:14/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/20/08 12:58/eli-c
Iron	2.32	mg/L		0.03		2	E200.7	05/19/08 17:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/20/08 12:58/eli-c
Manganese	2.66	mg/L		0.01		1	E200.8	05/20/08 12:58/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/20/08 12:58/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/19/08 17:14/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/19/08 17:14/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	05/08/08 16:53/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	05/20/08 12:58/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/20/08 12:58/eli-c
Uranium	0.0485	mg/L		0.0003		1	E200.8	05/20/08 12:58/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-005
 Client Sample ID: DewBurd GW675

Report Date: 06/27/08
 Collection Date: 04/29/08 17:50
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		2	E200.7	05/19/08 17:14/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/19/08 17:14/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/18/08 13:30/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	0.07	mg/L		0.05		1	E353.2	05/14/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	05/01/08 13:03/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/08/08 11:43/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	05/09/08 10:02/eli-ca
METALS, TOTAL								
Mercury	ND	mg/L	H	0.00010		1	A3112 B	06/12/08 14:38/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	51.1	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha precision (±)	15.5	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha MDC	18.3	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta	-0.4	pCi/L	U			1	E900.0	05/20/08 10:25/eli-c
Gross Beta precision (±)	16.3	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta MDC	27.3	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	05/27/08 08:30/eli-c
Lead 210 precision (±)	14.5	pCi/L				1	E909.0M	05/27/08 08:30/eli-c
Polonium 210	1.2	pCi/L		1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	0.2	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 MDC	0.08	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	05/29/08 16:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/29/08 16:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-5.2	pCi/L	U	1.0		1	E909.0M	05/22/08 09:00/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-005
 Client Sample ID: DewBurd GW675

Report Date: 06/27/08
 Collection Date: 04/29/08 17:50
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Lead 210 precision (±)	12.9	pCi/L					1	E909.0M	05/22/08 09:00/eli-c
Polonium 210	-0.1	pCi/L	U	1.0			1	RMO-3008	06/02/08 13:40/eli-c
Polonium 210 precision (±)	0.024	pCi/L					1	RMO-3008	06/02/08 13:40/eli-c
Radium 226	0.7	pCi/L					1	E903.0	05/21/08 10:15/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	05/21/08 10:15/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	05/21/08 10:15/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	05/19/08 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	05/19/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	960	pCi/L		100			1	D5072-92	05/04/08 18:36/eli-c
Radon 222 precision (±)	95.5	pCi/L					1	D5072-92	05/04/08 18:36/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/09/08 00:36/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	05/09/08 00:36/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/09/08 00:36/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/09/08 00:36/eli-c
Boron	0.3	mg/L		0.1			2	E200.7	05/09/08 02:21/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/09/08 00:36/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/09/08 00:36/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/09/08 00:36/eli-c
Iron	5.12	mg/L		0.03			2	E200.7	05/09/08 02:21/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/09/08 00:36/eli-c
Manganese	2.75	mg/L		0.01			1	E200.8	05/09/08 00:36/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/09/08 00:36/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/09/08 00:36/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/09/08 00:36/eli-c
Selenium	0.002	mg/L		0.001			1	E200.8	05/09/08 00:36/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/09/08 00:36/eli-c
Strontium	8.6	mg/L		0.1			1	E200.8	05/09/08 00:36/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/09/08 00:36/eli-c
Uranium	0.0516	mg/L		0.0003			1	E200.8	05/09/08 00:36/eli-c
Zinc	0.01	mg/L		0.01			1	E200.8	05/09/08 00:36/eli-c
DATA QUALITY									
A/C Balance (± 5)	0.840						1	A1030 E	06/19/08 00:00/ADM
Anions	90.4	meq/L					1	A1030 E	06/19/08 00:00/ADM

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040364-005
Client Sample ID: DewBurd GW675

Report Date: 06/27/08
Collection Date: 04/29/08 17:50
Date Received: 04/30/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Cations	91.9	meq/L				1	A1030 E	06/19/08 00:00/ADM
Solids, Total Dissolved Calculated	5860	mg/L				1	A1030 E	06/19/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.820					1	A1030 E	06/19/08 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-006
 Client Sample ID: DewBurd BLK01

Report Date: 06/27/08
 Collection Date: 04/29/08 18:00
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	ND	mg/L		5			1	A2320 B	05/01/08 12:31/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	05/01/08 12:31/mb
Bicarbonate as HCO3	ND	mg/L		5			1	A2320 B	05/01/08 12:31/mb
Calcium	ND	mg/L		0.5			2	E200.7	05/19/08 17:18/eli-c
Chloride	ND	mg/L		1			1	E300.0	05/11/08 06:19/eli-g
Fluoride	ND	mg/L		0.1			1	E300.0	05/11/08 06:19/eli-g
Magnesium	ND	mg/L		0.5			2	E200.7	05/19/08 17:18/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	05/06/08 15:10/jmh
Potassium	ND	mg/L		0.5			2	E200.7	05/19/08 17:18/eli-c
Silica	ND	mg/L		0.5			2	E200.7	05/19/08 17:18/eli-c
Sodium	ND	mg/L	D	2			2	E200.7	05/19/08 17:18/eli-c
Sulfate	ND	mg/L		1			1	E300.0	05/11/08 06:19/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	ND	umhos/cm		5.0			1	A2510 B	05/08/08 14:28/tb
Oxidation-Reduction Potential	290	mV					1	A2580 B	05/05/08 00:00/jmh
pH	6.66	s.u.		0.01			1	A4500-H B	05/06/08 14:15/jmh
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10			1	Calculation	06/18/08 18:05/ADM
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5			1	A2540 C	06/26/08 00:00/mb
- SAR calculations may not be appropriate for near blank results.									
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	05/19/08 17:18/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	05/20/08 13:25/eli-c
Barium	ND	mg/L		0.1			2	E200.7	05/19/08 17:18/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/19/08 17:18/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/20/08 13:25/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/19/08 17:18/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/20/08 13:25/eli-c
Iron	ND	mg/L		0.03			2	E200.7	05/19/08 17:18/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/20/08 13:25/eli-c
Manganese	ND	mg/L		0.01			2	E200.7	05/19/08 17:18/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/20/08 13:25/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	05/19/08 17:18/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	05/19/08 17:18/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	05/08/08 16:55/eli-ca
Silver	ND	mg/L		0.005			1	E200.8	05/20/08 13:25/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	05/20/08 13:25/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	05/20/08 13:25/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-006
 Client Sample ID: DewBurd BLK01

Report Date: 06/27/08
 Collection Date: 04/29/08 18:00
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		2	E200.7	05/19/08 17:18/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/19/08 17:18/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/18/08 13:34/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	ND	mg/L		0.05		1	E353.2	05/14/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	05/01/08 13:05/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/08/08 11:59/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	05/09/08 10:02/eli-ca
METALS, TOTAL								
Mercury	ND	mg/L	H	0.00010		1	A3112 B	06/12/08 14:41/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	0.4	pCi/L	U			1	E900.0	05/20/08 10:25/eli-c
Gross Alpha precision (±)	0.5	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha MDC	0.8	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta	-0.3	pCi/L	U			1	E900.0	05/20/08 10:25/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta MDC	2.6	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	05/27/08 08:30/eli-c
Lead 210 precision (±)	14.4	pCi/L				1	E909.0M	05/27/08 08:30/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	0.1	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/19/08 18:41/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	05/21/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	05/21/08 15:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3.0	pCi/L	U	1.0		1	E909.0M	05/22/08 09:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-006
 Client Sample ID: DewBurd BLK01

Report Date: 06/27/08
 Collection Date: 04/29/08 18:00
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Lead 210 precision (±)	13.0	pCi/L					1	E909.0M	05/22/08 09:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	06/02/08 13:40/eli-c
Polonium 210 precision (±)	0.024	pCi/L					1	RMO-3008	06/02/08 13:40/eli-c
Radium 226	0.4	pCi/L					1	E903.0	05/21/08 10:15/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	05/21/08 10:15/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	05/21/08 10:15/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	05/19/08 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	05/19/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	194	pCi/L		100			1	D5072-92	05/04/08 18:36/eli-c
Radon 222 precision (±)	85.4	pCi/L					1	D5072-92	05/04/08 18:36/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/09/08 00:43/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	05/09/08 00:43/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/09/08 00:43/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/09/08 00:43/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/09/08 02:25/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/09/08 00:43/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/09/08 00:43/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/09/08 00:43/eli-c
Iron	ND	mg/L		0.03			2	E200.7	05/09/08 02:25/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/09/08 00:43/eli-c
Manganese	ND	mg/L		0.01			1	E200.8	05/09/08 00:43/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/09/08 00:43/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/09/08 00:43/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/09/08 00:43/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/09/08 00:43/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/09/08 00:43/eli-c
Strontium	ND	mg/L		0.1			1	E200.8	05/09/08 00:43/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/09/08 00:43/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	05/09/08 00:43/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/09/08 00:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-007
 Client Sample ID: DewBurd GW635

Report Date: 06/27/08
 Collection Date: 04/29/08 19:00
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	118	mg/L		5		1	A2320 B	05/01/08 12:36/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/01/08 12:36/mb
Bicarbonate as HCO3	144	mg/L		5		1	A2320 B	05/01/08 12:36/mb
Calcium	136	mg/L		0.5		2	E200.7	05/19/08 17:22/eli-c
Chloride	20	mg/L		1		5	E300.0	05/12/08 23:51/eli-g
Fluoride	0.4	mg/L		0.1		5	E300.0	05/12/08 23:51/eli-g
Magnesium	54.1	mg/L		0.5		2	E200.7	05/19/08 17:22/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G	05/06/08 15:11/jmh
Potassium	7.3	mg/L		0.5		2	E200.7	05/19/08 17:22/eli-c
Silica	4.9	mg/L		0.5		2	E200.7	05/19/08 17:22/eli-c
Sodium	545	mg/L	D	2		2	E200.7	05/19/08 17:22/eli-c
Sulfate	1430	mg/L		1		25	E300.0	05/11/08 06:31/eli-g
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2810	umhos/cm		5.0		1	A2510 B	05/08/08 14:39/tb
Oxidation-Reduction Potential	180	mV				1	A2580 B	05/05/08 00:00/jmh
pH	8.20	s.u.		0.01		1	A4500-H B	05/06/08 14:16/jmh
Sodium Adsorption Ratio (SAR)	10	unitless		0.10		1	Calculation	06/18/08 18:05/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	05/01/08 15:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/19/08 17:22/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/20/08 13:32/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/19/08 17:22/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	05/19/08 17:22/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/20/08 13:32/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/19/08 17:22/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/20/08 13:32/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/19/08 17:22/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/20/08 13:32/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	05/19/08 17:22/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/20/08 13:32/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/19/08 17:22/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/19/08 17:22/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	05/08/08 17:01/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	05/20/08 13:32/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/20/08 13:32/eli-c
Uranium	0.0017	mg/L		0.0003		1	E200.8	05/20/08 13:32/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-007
 Client Sample ID: DewBurd GW635

Report Date: 06/27/08
 Collection Date: 04/29/08 19:00
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		2	E200.7	05/19/08 17:22/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/19/08 17:22/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	05/18/08 13:38/eli-c
NUTRIENT PARAMETERS								
Nitrogen, Nitrate as N	ND	mg/L		0.05		1	E353.2	05/14/08 00:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.05		1	E353.2	05/01/08 13:07/jmh
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/08/08 12:01/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	05/09/08 10:02/eli-ca
METALS, TOTAL								
Mercury	ND	mg/L	H	0.00010		1	A3112 B	06/12/08 14:48/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	13.2	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha precision (±)	5.3	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Alpha MDC	6.9	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta	-8	pCi/L	U			1	E900.0	05/20/08 10:25/eli-c
Gross Beta precision (±)	5.3	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Gross Beta MDC	9.2	pCi/L				1	E900.0	05/20/08 10:25/eli-c
Lead 210	0.0	pCi/L	U	1.0		1	E909.0M	05/27/08 08:30/eli-c
Lead 210 precision (±)	14.5	pCi/L				1	E909.0M	05/27/08 08:30/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	05/06/08 17:00/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	05/06/08 17:00/eli-c
Radium 226	1.3	pCi/L				1	E903.0	05/19/08 18:42/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	05/19/08 18:42/eli-c
Radium 226 MDC	0.08	pCi/L				1	E903.0	05/19/08 18:42/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	05/21/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/21/08 15:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/01/08 17:22/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/01/08 17:22/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-9.6	pCi/L	U	1.0		1	E909.0M	05/22/08 09:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08040364-007
 Client Sample ID: DewBurd GW635

Report Date: 06/27/08
 Collection Date: 04/29/08 19:00
 Date Received: 04/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Lead 210 precision (±)	12.8	pCi/L					1	E909.0M	05/22/08 09:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	06/02/08 13:40/eli-c
Polonium 210 precision (±)	0.33	pCi/L					1	RMO-3008	06/02/08 13:40/eli-c
Radium 226	0.3	pCi/L					1	E903.0	05/21/08 10:15/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	05/21/08 10:15/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	05/21/08 10:15/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	05/19/08 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	05/19/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1070	pCi/L		100			1	D5072-92	05/04/08 18:36/eli-c
Radon 222 precision (±)	96.1	pCi/L					1	D5072-92	05/04/08 18:36/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/09/08 00:49/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	05/09/08 00:49/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/09/08 00:49/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/09/08 00:49/eli-c
Boron	0.4	mg/L		0.1			2	E200.7	05/09/08 02:29/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/09/08 00:49/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/09/08 00:49/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/09/08 00:49/eli-c
Iron	1.08	mg/L		0.03			2	E200.7	05/09/08 02:29/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/09/08 00:49/eli-c
Manganese	0.05	mg/L		0.01			1	E200.8	05/09/08 00:49/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	05/09/08 00:49/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	05/09/08 00:49/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/09/08 00:49/eli-c
Selenium	0.001	mg/L		0.001			1	E200.8	05/09/08 00:49/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/09/08 00:49/eli-c
Strontium	4.6	mg/L		0.1			1	E200.8	05/09/08 00:49/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/09/08 00:49/eli-c
Uranium	0.0017	mg/L		0.0003			1	E200.8	05/09/08 00:49/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/09/08 00:49/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.52						1	A1030 E	06/19/08 00:00/ADM
Anions	32.8	meq/L					1	A1030 E	06/19/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040364-007
Client Sample ID: DewBurd GW635

Report Date: 06/27/08
Collection Date: 04/29/08 19:00
Date Received: 04/30/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
Cations	35.2	meq/L				1	A1030 E	06/19/08 00:00/ADM
Solids, Total Dissolved Calculated	2280	mg/L				1	A1030 E	06/19/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	06/19/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/27/08
 Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080430A-ALK-SEL-W		
Sample ID: R08040364-005AMS Alkalinity, Total as CaCO ₃	Sample Matrix Spike 534	mg/L	5.0	100	80	120			
									Run: PH_COND1-R_080429A 05/01/08 12:24
Sample ID: R08040364-005AMSD Alkalinity, Total as CaCO ₃	Sample Matrix Spike Duplicate 534	mg/L	5.0	100	80	120	0.0	10	
									Run: PH_COND1-R_080429A 05/01/08 12:27
Method: A2510 B							Batch: 080508_2_COND-PROBE-W		
Sample ID: LCS1-1_080508 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			
									Run: PH_COND2-R_080508A 05/08/08 13:12
Sample ID: LCS2-1_080508 Conductivity @ 25 C	Laboratory Control Sample 4950	umhos/cm	5.0	99	90	110			
									Run: PH_COND2-R_080508A 05/08/08 13:16
Sample ID: LCS_COND-1_080508 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			
									Run: PH_COND2-R_080508A 05/08/08 13:18
Sample ID: R08040364-007ADUP Conductivity @ 25 C	Sample Duplicate 3090	umhos/cm	5.0				9.5	10	
									Run: PH_COND2-R_080508A 05/08/08 14:42
Method: A2540 C							Batch: 080501A-SLDS-TDS-W		
Sample ID: LCS1_080501A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	108	90	110			
									Run: BAL-4-R_080501A 05/05/08 09:44
Sample ID: MBLK1_080501A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						
									Run: BAL-4-R_080501A 05/01/08 14:28
Sample ID: R08040362-018AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 2200	mg/L	5.0	124	80	120			
									Run: BAL-4-R_080501A 05/05/08 09:53 S
Sample ID: R08040362-018AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 2200	mg/L	5.0	128	80	120	0.4	10	
									Run: BAL-4-R_080501A 05/05/08 09:54 S
Method: A2580 B							Batch: 080505-ORP-ISE-W		
Sample ID: R08040364-007F Oxidation-Reduction Potential	Sample Duplicate 180	mV					1.9	10	
									Run: PH_COND1-R_080505A 05/05/08 00:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/27/08
 Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3112 B							Batch: C_HG3112-7470-080612		
Sample ID: MBLK	Method Blank					Run: SUB-C102580			06/12/08 14:14
Mercury	ND	mg/L	5E-05						
Sample ID: 288-88-5	Laboratory Control Sample					Run: SUB-C102580			06/12/08 14:21
Mercury	0.0051	mg/L	0.00010	103	90	110			
Sample ID: R08040364-001I	Sample Matrix Spike					Run: SUB-C102580			06/12/08 14:26
Mercury	0.0057	mg/L	0.00010	113	85	115			
Sample ID: R08040364-001I	Sample Matrix Spike Duplicate					Run: SUB-C102580			06/12/08 14:29
Mercury	0.0057	mg/L	0.00010	112	85	115	0.9	10	
Method: A3114 B							Batch: C_SE3114-080508A		
Sample ID: MBLK	Method Blank					Run: SUB-C100845			05/08/08 11:25
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-72-6	Laboratory Control Sample					Run: SUB-C100845			05/08/08 11:28
Selenium-IV	0.050	mg/L	0.0010	101	90	110			
Sample ID: R08040364-001E	Sample Matrix Spike					Run: SUB-C100845			05/08/08 11:33
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: R08040364-001E	Sample Matrix Spike Duplicate					Run: SUB-C100845			05/08/08 11:35
Selenium-IV	0.047	mg/L	0.0010	95	85	115	5.4	10	
Method: A3114 B							Batch: C_SE3114-080508B		
Sample ID: MBLK	Method Blank					Run: SUB-C100885			05/08/08 16:36
Selenium	ND	mg/L	6E-05						
Sample ID: 288-72-6	Laboratory Control Sample					Run: SUB-C100885			05/08/08 16:38
Selenium	0.047	mg/L	0.0010	95	90	110			
Sample ID: R08040364-001E	Sample Matrix Spike					Run: SUB-C100885			05/08/08 16:42
Selenium	0.053	mg/L	0.0010	88	85	115			
Sample ID: R08040364-001E	Sample Matrix Spike Duplicate					Run: SUB-C100885			05/08/08 16:44
Selenium	0.054	mg/L	0.0010	90	85	115	1.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/27/08
Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080506_1_PH-W		
Sample ID: LCS_pH-1_080506	Laboratory Control Sample				Run: PH_COND2-R_080506A		05/06/08 14:09		
pH	6.92	s.u.	0.010	101	98.55	101.45			
Sample ID: R08040364-001ADUP	Sample Duplicate				Run: PH_COND2-R_080506A		05/06/08 14:10		
pH	7.48	s.u.	0.010				0.3	1.25	
Method: A4500-NH3 G							Batch: A2008-05-06_2_NH3_01		
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080506A		05/06/08 10:09		
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080506A		05/06/08 10:10		
Nitrogen, Ammonia as N	0.27	mg/L	0.10	108	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080506A		05/06/08 10:12		
Nitrogen, Ammonia as N	0.27	mg/L	0.10	108	90	110			
Sample ID: R08040362-014CMS	Sample Matrix Spike				Run: TECHAA2-R_080506A		05/06/08 14:53		
Nitrogen, Ammonia as N	0.11	mg/L	0.10	45	80	120			S
Sample ID: R08040362-014CMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080506A		05/06/08 14:54		
Nitrogen, Ammonia as N	0.095	mg/L	0.10	38	80	120	0.0	10	S
Sample ID: R08040364-004BMS	Sample Matrix Spike				Run: TECHAA2-R_080506A		05/06/08 15:07		
Nitrogen, Ammonia as N	0.44	mg/L	0.10	80	80	120			
Sample ID: R08040364-004BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080506A		05/06/08 15:08		
Nitrogen, Ammonia as N	0.46	mg/L	0.10	88	80	120	4.7	10	
Method: D5072-92							Batch: C_R100659		
Sample ID: R08040364-001G	Sample Duplicate				Run: SUB-C100659		05/04/08 18:36		
Radon 222	693	pCi/L	100				8.5	30	
Sample ID: R08040364-007G	Sample Duplicate				Run: SUB-C100659		05/04/08 18:36		
Radon 222	1070	pCi/L	100				0.1	30	
Sample ID: MB-R100659	Method Blank				Run: SUB-C100659		05/04/08 18:36		
Radon 222	20	pCi/L							
Sample ID: LCS-R100659	Laboratory Control Sample				Run: SUB-C100659		05/04/08 18:36		
Radon 222	303	pCi/L	100	94	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/27/08
 Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18513		
Sample ID: MB-18513	Method Blank				Run: SUB-C100898		05/09/08 01:36		
Boron	0.02	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-18513	Laboratory Control Sample				Run: SUB-C100898		05/09/08 01:40		
Boron	0.481	mg/L	0.10	93	85	115			
Iron	2.63	mg/L	0.030	105	85	115			
Sample ID: C08050144-001B MS3	Sample Matrix Spike				Run: SUB-C100898		05/09/08 04:07		
Boron	0.714	mg/L	0.10	95	70	130			
Iron	2.72	mg/L	0.030	108	70	130			
Sample ID: C08050144-001B MSD3	Sample Matrix Spike Duplicate				Run: SUB-C100898		05/09/08 04:11		
Boron	0.737	mg/L	0.10	100	70	130	3.2	20	
Iron	2.73	mg/L	0.030	108	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/27/08
Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101361		
Sample ID: MB-080519A	Method Blank		Run: SUB-C101361			05/19/08 15:19			
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.02	mg/L	0.008						
Cadmium	ND	mg/L	0.0008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.004	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080519A	Laboratory Fortified Blank		Run: SUB-C101361			05/19/08 15:23			
Silica	0.30	mg/L	0.10	98	85	125			
Aluminum	1.1	mg/L	0.10	106	85	125			
Barium	1.0	mg/L	0.10	103	85	125			
Boron	1.1	mg/L	0.10	105	85	125			
Cadmium	1.1	mg/L	0.010	107	85	125			
Calcium	53	mg/L	0.50	107	85	125			
Chromium	1.0	mg/L	0.050	103	85	125			
Iron	1.1	mg/L	0.030	110	85	125			
Magnesium	54	mg/L	0.50	107	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	1.0	mg/L	0.10	100	85	125			
Nickel	1.0	mg/L	0.050	103	85	125			
Potassium	47	mg/L	0.50	95	85	125			
Sodium	51	mg/L	0.77	103	85	125			
Vanadium	1.1	mg/L	0.10	107	85	125			
Zinc	1.0	mg/L	0.010	102	85	125			
Sample ID: C08050067-001CMS2	Sample Matrix Spike		Run: SUB-C101361			05/19/08 15:51			
Aluminum	2.03	mg/L	0.10	100	70	130			
Barium	2.02	mg/L	0.10	98	70	130			
Boron	2.52	mg/L	0.10	100	70	130			
Cadmium	2.05	mg/L	0.010	101	70	130			
Chromium	2.01	mg/L	0.050	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/27/08
 Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101361		
Sample ID: C08050067-001CMS2	Sample Matrix Spike			Run: SUB-C101361			05/19/08 15:51		
Iron	2.13	mg/L	0.030	104	70	130			
Manganese	2.02	mg/L	0.010	99	70	130			
Molybdenum	1.94	mg/L	0.10	95	70	130			
Nickel	2.01	mg/L	0.050	99	70	130			
Vanadium	2.17	mg/L	0.10	104	70	130			
Zinc	2.03	mg/L	0.010	99	70	130			
Calcium	654	mg/L	1.0		70	130			A
Magnesium	233	mg/L	1.0	102	70	130			
Potassium	103	mg/L	1.0	91	70	130			
Silica	7.85	mg/L	0.10	71	70	130			
Sodium	194	mg/L	1.5	98	70	130			
Sample ID: C08050067-001CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C101361			05/19/08 15:55		
Aluminum	2.04	mg/L	0.10	100	70	130	0.2	20	
Barium	2.04	mg/L	0.10	99	70	130	1.1	20	
Boron	2.54	mg/L	0.10	102	70	130	1.0	20	
Cadmium	2.06	mg/L	0.010	101	70	130	0.3	20	
Chromium	2.04	mg/L	0.050	100	70	130	1.3	20	
Iron	2.20	mg/L	0.030	108	70	130	3.2	20	
Manganese	2.05	mg/L	0.010	101	70	130	1.7	20	
Molybdenum	2.00	mg/L	0.10	97	70	130	2.8	20	
Nickel	2.03	mg/L	0.050	99	70	130	0.8	20	
Vanadium	2.18	mg/L	0.10	104	70	130	0.3	20	
Zinc	2.06	mg/L	0.010	101	70	130	1.3	20	
Calcium	664	mg/L	1.0		70	130	1.5	20	A
Magnesium	239	mg/L	1.0	109	70	130	2.7	20	
Potassium	102	mg/L	1.0	90	70	130	1.0	20	
Silica	7.85	mg/L	0.10	71	70	130	0.1	20	
Sodium	192	mg/L	1.5	96	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/27/08
 Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101431		
Sample ID: MB-080520A	Method Blank				Run: SUB-C101431			05/20/08 14:34	
Copper	ND	mg/L	0.005						
Sodium	ND	mg/L	0.8						
Sample ID: LFB-080520A	Laboratory Fortified Blank				Run: SUB-C101431			05/20/08 14:38	
Copper	1.0	mg/L	0.010	101	85	125			
Sodium	51	mg/L	0.77	103	85	125			
Sample ID: C08050094-002FMS2	Sample Matrix Spike				Run: SUB-C101431			05/20/08 15:02	
Copper	2.14	mg/L	0.010	105	70	130			
Sodium	156	mg/L	1.5	102	70	130			
Sample ID: C08050094-002FMSD2	Sample Matrix Spike Duplicate				Run: SUB-C101431			05/20/08 15:07	
Copper	2.03	mg/L	0.010	99	70	130	5.3	20	
Sodium	155	mg/L	1.5	100	70	130	1.2	20	
Method: E200.7							Batch: C_R103044		
Sample ID: MB-080620A	Method Blank				Run: SUB-C103044			06/20/08 15:38	
Sodium	ND	mg/L	0.8						
Sample ID: LFB-080620A	Laboratory Fortified Blank				Run: SUB-C103044			06/20/08 15:42	
Sodium	51	mg/L	0.77	101	85	125			
Sample ID: R08040364-003C	Sample Matrix Spike				Run: SUB-C103044			06/20/08 15:50	
Sodium	2590	mg/L	7.7		70	130			A
Sample ID: R08040364-003C	Sample Matrix Spike Duplicate				Run: SUB-C103044			06/20/08 15:54	
Sodium	2620	mg/L	7.7		70	130	1.2	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/27/08
Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18513		
Sample ID: MB-18513	Method Blank		Run: SUB-C100862			05/08/08 23:22			
Antimony	ND	mg/L	0.0002						
Arsenic	0.0001	mg/L	5E-05						
Barium	ND	mg/L	0.0003						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	4E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.0004	mg/L	0.0001						
Lead	ND	mg/L	5E-05						
Manganese	0.0001	mg/L	3E-05						
Molybdenum	8E-05	mg/L	5E-05						
Nickel	ND	mg/L	0.0002						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	5E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	0.0001	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS3-18513	Laboratory Control Sample		Run: SUB-C100862			05/08/08 23:28			
Antimony	0.564	mg/L	0.050	113	85	115			
Arsenic	0.507	mg/L	0.0010	101	85	115			
Barium	0.530	mg/L	0.10	106	85	115			
Beryllium	0.263	mg/L	0.010	105	85	115			
Cadmium	0.255	mg/L	0.010	102	85	115			
Chromium	0.488	mg/L	0.050	97	85	115			
Copper	0.476	mg/L	0.010	95	85	115			
Lead	0.516	mg/L	0.050	103	85	115			
Manganese	2.47	mg/L	0.010	99	85	115			
Molybdenum	0.554	mg/L	0.10	111	85	115			
Nickel	0.485	mg/L	0.050	97	85	115			
Selenium	0.492	mg/L	0.0010	98	85	115			
Silver	0.0497	mg/L	0.010	99	85	115			
Strontium	0.512	mg/L	0.10	102	85	115			
Thallium	0.515	mg/L	0.10	103	85	115			
Uranium	0.534	mg/L	0.00030	107	85	115			
Zinc	0.470	mg/L	0.010	94	85	115			
Sample ID: C08050144-001BMS3	Sample Matrix Spike		Run: SUB-C100862			05/09/08 02:38			
Antimony	0.551	mg/L	0.050	108	70	130			
Arsenic	0.528	mg/L	0.0010	101	70	130			
Barium	0.642	mg/L	0.10	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/27/08
Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18513		
Sample ID: C08050144-001BMS3	Sample Matrix Spike			Run: SUB-C100862			05/09/08 02:38		
Beryllium	0.245	mg/L	0.010	98	70	130			
Cadmium	0.251	mg/L	0.010	100	70	130			
Chromium	0.433	mg/L	0.050	86	70	130			
Copper	0.474	mg/L	0.010	95	70	130			
Lead	0.525	mg/L	0.050	105	70	130			
Manganese	2.14	mg/L	0.010	85	70	130			
Molybdenum	0.577	mg/L	0.10	115	70	130			
Nickel	0.486	mg/L	0.050	97	70	130			
Selenium	0.462	mg/L	0.0010	92	70	130			
Silver	0.0490	mg/L	0.010	98	70	130			
Strontium	0.840	mg/L	0.10	98	70	130			
Thallium	0.545	mg/L	0.10	109	70	130			
Uranium	0.559	mg/L	0.00030	112	70	130			
Zinc	0.449	mg/L	0.010	88	70	130			
Sample ID: C08050144-001BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C100862			05/09/08 02:44		
Antimony	0.537	mg/L	0.050	106	70	130	2.4	20	
Arsenic	0.521	mg/L	0.0010	100	70	130	1.3	20	
Barium	0.634	mg/L	0.10	105	70	130	1.3	20	
Beryllium	0.248	mg/L	0.010	99	70	130	1.1	20	
Cadmium	0.244	mg/L	0.010	98	70	130	2.6	20	
Chromium	0.442	mg/L	0.050	88	70	130	2.0	20	
Copper	0.463	mg/L	0.010	92	70	130	2.3	20	
Lead	0.523	mg/L	0.050	104	70	130	0.4	20	
Manganese	2.21	mg/L	0.010	88	70	130	3.2	20	
Molybdenum	0.554	mg/L	0.10	110	70	130	4.0	20	
Nickel	0.474	mg/L	0.050	95	70	130	2.4	20	
Selenium	0.461	mg/L	0.0010	92	70	130	0.2	20	
Silver	0.0480	mg/L	0.010	96	70	130	2.1	20	
Strontium	0.841	mg/L	0.10	98	70	130	0.2	20	
Thallium	0.524	mg/L	0.10	105	70	130	3.9	20	
Uranium	0.535	mg/L	0.00030	107	70	130	4.5	20	
Zinc	0.444	mg/L	0.010	87	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/27/08
Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18574
Sample ID: MB-18574	Method Blank								Run: SUB-C101315 05/18/08 12:44
Uranium	2E-05	mg/L	2E-05						
Sample ID: LCS1-18574	Laboratory Control Sample								Run: SUB-C101315 05/18/08 12:48
Uranium	0.0471	mg/L	0.00030	89	80	120			
Sample ID: R08040364-0071	Post Digestion Spike								Run: SUB-C101315 05/18/08 13:42
Uranium	0.0117	mg/L	0.00030	94	70	130			
Sample ID: R08040364-0071	Post Digestion Spike Duplicate								Run: SUB-C101315 05/18/08 13:46
Uranium	0.0119	mg/L	0.00030	95	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/27/08
 Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R101440		
Sample ID: LRB	Method Blank		Run: SUB-C101440			05/20/08 12:00			
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Silver	0.0002	mg/L	3E-05						
Thorium 232	0.0001	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C101440			05/20/08 12:06			
Arsenic	0.0514	mg/L	0.0010	103	85	115			
Cadmium	0.0519	mg/L	0.0010	104	85	115			
Copper	0.0524	mg/L	0.0010	105	85	115			
Lead	0.0516	mg/L	0.0010	103	85	115			
Manganese	0.0529	mg/L	0.0010	106	85	115			
Mercury	0.00510	mg/L	0.0010	102	85	115			
Silver	0.0202	mg/L	0.0010	100	85	115			
Thorium 232	0.0516	mg/L	0.0010	103	85	115			
Uranium	0.0515	mg/L	0.00030	103	85	115			
Sample ID: C08050092-001DMS4	Post Digestion Spike		Run: SUB-C101440			05/20/08 14:06			
Arsenic	0.0539	mg/L	0.0010	107	70	130			
Cadmium	0.0538	mg/L	0.010	107	70	130			
Copper	0.0500	mg/L	0.010	99	70	130			
Lead	0.0530	mg/L	0.050	106	70	130			
Manganese	0.0596	mg/L	0.010	110	70	130			
Mercury	0.00529	mg/L	0.0010	106	70	130			
Silver	0.0137	mg/L	0.010	68	70	130			S
Thorium 232	0.0533	mg/L	0.0010	107	70	130			
Uranium	0.153	mg/L	0.00030	104	70	130			
Sample ID: C08050092-001DMSD4	Post Digestion Spike Duplicate		Run: SUB-C101440			05/20/08 14:13			
Arsenic	0.0527	mg/L	0.0010	104	70	130	2.2	20	
Cadmium	0.0525	mg/L	0.010	105	70	130	2.3	20	
Copper	0.0488	mg/L	0.010	97	70	130	2.4	20	
Lead	0.0525	mg/L	0.050	105	70	130	0.9	20	
Manganese	0.0579	mg/L	0.010	107	70	130	2.9	20	
Mercury	0.00546	mg/L	0.0010	109	70	130	3.1	20	
Silver	0.0113	mg/L	0.010	57	70	130	19	20	S
Thorium 232	0.0534	mg/L	0.0010	107	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 06/27/08

Project: Edgemont

Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R101440		
Sample ID: C08050092-001DMSD4	Post Digestion Spike Duplicate			Run: SUB-C101440		05/20/08 14:13			
Uranium	0.155	mg/L	0.00030	108	70	130	1.3	20	
Method: E300.0							Batch: G_R159465		
Sample ID: LCS	Laboratory Control Sample			Run: SUB-G159465		05/10/08 14:58			
Chloride	28.1	mg/L	1.0	93	90	110			
Fluoride	20.2	mg/L	0.10	100	90	110			
Sulfate	142	mg/L	1.0	94	90	110			
Sample ID: MBLK	Method Blank			Run: SUB-G159465		05/10/08 15:10			
Chloride	ND	mg/L	0.08						
Fluoride	ND	mg/L	0.007						
Sulfate	ND	mg/L	0.04						
Sample ID: R08050024-004B	Sample Matrix Spike			Run: SUB-G159465		05/11/08 02:37			
Chloride	411	mg/L	1.0	97	80	120			
Fluoride	39.2	mg/L	0.10	99	80	120			
Sulfate	660	mg/L	1.0	97	80	120			
Sample ID: R08050024-004B	Sample Matrix Spike Duplicate			Run: SUB-G159465		05/11/08 02:49			
Chloride	407	mg/L	1.0	97	80	120	0.9	20	
Fluoride	38.8	mg/L	0.10	98	80	120	1.0	20	
Sulfate	658	mg/L	1.0	96	80	120	0.3	20	
Sample ID: G08050354-007BMS	Sample Matrix Spike			Run: SUB-G159465		05/11/08 08:04			
Chloride	1060	mg/L	2.1	100	80	120			
Fluoride	99.9	mg/L	0.18	101	80	120			
Sample ID: G08050354-007BMSD	Sample Matrix Spike Duplicate			Run: SUB-G159465		05/11/08 08:16			
Chloride	1080	mg/L	2.1	102	80	120	1.8	20	
Fluoride	102	mg/L	0.18	103	80	120	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/27/08
Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: G_R159560		
Sample ID: LCS	Laboratory Control Sample				Run: SUB-G159560		05/12/08 13:35		
Chloride	27.4	mg/L	1.0	91	90	110			
Fluoride	19.0	mg/L	0.10	94	90	110			
Sample ID: MBLK	Method Blank				Run: SUB-G159560		05/12/08 13:46		
Chloride	ND	mg/L	0.08						
Fluoride	ND	mg/L	0.007						
Sample ID: G08050351-005AMS	Sample Matrix Spike				Run: SUB-G159560		05/12/08 23:27		
Chloride	261	mg/L	1.0	101	80	120			
Fluoride	19.8	mg/L	0.10	98	80	120			
Sample ID: G08050351-005AMSD	Sample Matrix Spike Duplicate				Run: SUB-G159560		05/12/08 23:39		
Chloride	263	mg/L	1.0	102	80	120	0.9	20	
Fluoride	20.0	mg/L	0.10	100	80	120	1.1	20	
Sample ID: G08050409-001AMS	Sample Matrix Spike				Run: SUB-G159560		05/13/08 15:35		
Chloride	204	mg/L	1.0	101	80	120			
Fluoride	21.3	mg/L	0.10	101	80	120			
Sample ID: G08050409-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-G159560		05/13/08 15:47		
Chloride	202	mg/L	1.0	101	80	120	0.6	20	
Fluoride	21.1	mg/L	0.10	100	80	120	0.9	20	
Method: E353.2							Batch: A2008-05-01_3_NO2_01		
Sample ID: MBLK-2	Method Blank				Run: TECHAA1-R_080501A		05/01/08 12:43		
Nitrogen, Nitrite as N	ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA1-R_080501A		05/01/08 12:45		
Nitrogen, Nitrite as N	0.249	mg/L	0.050	100	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA1-R_080501A		05/01/08 12:47		
Nitrogen, Nitrite as N	0.250	mg/L	0.050	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/27/08
 Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_R101650		
Sample ID: C08050092-001IMS	Sample Matrix Spike				Run: SUB-C101650			05/20/08 10:25	
Gross Alpha	220	pCi/L		111	70	130			
Gross Beta	120	pCi/L		101	70	130			
Sample ID: C08050092-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C101650			05/20/08 10:25	
Gross Alpha	220	pCi/L		110	70	130	0.4	30	
Gross Beta	120	pCi/L		99	70	130	2.0	30	
Sample ID: MB-R101650	Method Blank				Run: SUB-C101650			05/20/08 10:25	
Gross Alpha	0.1	pCi/L							
Gross Beta	-2	pCi/L							
Sample ID: LCS-R101650	Laboratory Control Sample				Run: SUB-C101650			05/20/08 10:25	
Gross Alpha	140	pCi/L		98	70	130			
Gross Beta	93	pCi/L		101	70	130			
Method: E901.1							Batch: C_R100708		
Sample ID: LCS-R100708	Laboratory Control Sample				Run: SUB-C100708			05/01/08 17:22	
Americium 241	720	pCi/L	20	88	70	130			
Cesium 137	1200	pCi/L	20	109	70	130			
Sample ID: MB-R100708	Method Blank				Run: SUB-C100708			05/01/08 17:22	
Gross Gamma	ND	pCi/L							
Sample ID: R08040364-001H	Sample Duplicate				Run: SUB-C100708			05/01/08 17:22	
Gross Gamma	ND	pCi/L	20				0.0	30	U
Sample ID: R08040364-007H	Sample Duplicate				Run: SUB-C100708			05/01/08 17:22	
Gross Gamma	ND	pCi/L	20				0.0	30	U
Method: E903.0							Batch: C_18574		
Sample ID: R08040364-003I	Sample Matrix Spike				Run: SUB-C101573			05/21/08 08:27	
Radium 226	80	pCi/L		101	70	130			
Sample ID: R08040364-003I	Sample Matrix Spike Duplicate				Run: SUB-C101573			05/21/08 08:27	
Radium 226	76	pCi/L		96	70	130	5.7	22.9	
Sample ID: MB-18574	Method Blank				Run: SUB-C101573			05/21/08 10:15	
Radium 226	3	pCi/L							
Sample ID: LCS-18574	Laboratory Control Sample				Run: SUB-C101573			05/21/08 10:15	
Radium 226	15	pCi/L		95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/27/08
Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-2792		
Sample ID: C08050086-001JMS Radium 226	Sample Matrix Spike 7.7	pCi/L		106	70	130			05/19/08 18:41
Sample ID: C08050086-001JMSD Radium 226	Sample Matrix Spike Duplicate 7.8	pCi/L		107	70	130	1.0	21.2	05/19/08 18:41
Sample ID: MB-RA226-2792 Radium 226	Method Blank 0.09	pCi/L							05/19/08 22:54 U
Sample ID: LCS-RA226-2792 Radium 226	Laboratory Control Sample 6.9	pCi/L		107	70	130			05/19/08 22:54
Method: E907.0							Batch: C_18574		
Sample ID: C08041302-003AMS Thorium 230	Sample Matrix Spike 86.9	pCi/Filter	0.20	92	70	130			05/19/08 16:00
Sample ID: C08041302-003AMSD Thorium 230	Sample Matrix Spike Duplicate 90.6	pCi/Filter	0.20	97	70	130	4.2	30	05/19/08 16:00
Sample ID: LCS-R101858 Thorium 230	Laboratory Control Sample 22.5	pCi/L	0.20	98	70	130			05/19/08 16:00
Sample ID: MB-R101858 Thorium 230	Method Blank 0.1	pCi/L							05/19/08 16:00
Method: E907.0							Batch: C_R101862		
Sample ID: LCS-R101862 Thorium 230	Laboratory Control Sample 6.30	pCi/L	0.20	91	70	130			05/21/08 15:00
Sample ID: R08040364-001H Thorium 230	Sample Matrix Spike 15.8	pCi/L	0.20	102	70	130			05/21/08 15:00
Sample ID: R08040364-001H Thorium 230	Sample Matrix Spike Duplicate 16.1	pCi/L	0.20	99	70	130	1.9	30	05/21/08 15:00
Sample ID: MB-R101862 Thorium 230	Method Blank ND	pCi/L							05/21/08 15:00 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/27/08
 Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R102417		
Sample ID: LCS-R102417	Laboratory Control Sample								05/29/08 16:00
Thorium 230	10.4	pCi/L	0.20	94	70	130			
Sample ID: MB-R102417	Method Blank								05/29/08 16:00
Thorium 230	0.1	pCi/L							
Sample ID: TAP WATER MS	Sample Matrix Spike								05/29/08 16:00
Thorium 230	10.1	pCi/L	0.20	92	70	130			
- MS and MSD are using the MB as a reference because the analyst forgot to include an unspiked Tap Water with the run. The recoveries are within limits so the batch is acceptable.									
Sample ID: TAP WATER MSD	Sample Matrix Spike Duplicate								05/29/08 16:00
Thorium 230	9.20	pCi/L	0.20	84	70	130	9.3	30	
- MS and MSD are using the MB as a reference because the analyst forgot to include an unspiked Tap Water with the run. The recoveries are within limits so the batch is acceptable.									
Method: E909.0M							Batch: C_18556		
Sample ID: C08050730-007FMD	Sample Duplicate								05/22/08 09:00
Lead 210	-41	pCi/L	1.0				0.0	30	
Sample ID: C08050730-007FMS	Sample Matrix Spike								05/22/08 09:00
Lead 210	500	pCi/L	1.0	87	70	130			
Sample ID: MB-R102106	Method Blank								05/22/08 09:00
Lead 210	ND	pCi/L							
Sample ID: LCS-R102106	Laboratory Control Sample								05/22/08 09:00
Lead 210	120	pCi/L	1.0	103	70	130			
Method: E909.0M							Batch: C_R102460		
Sample ID: R08040364-002H	Sample Matrix Spike								05/27/08 08:30
Lead 210	520	pCi/L	1.0	89	70	130			
Sample ID: R08040364-002H	Sample Matrix Spike Duplicate								05/27/08 08:30
Lead 210	640	pCi/L	1.0	109	70	130	20	30	
Sample ID: MB-R102460	Method Blank								05/27/08 08:30
Lead 210	ND	pCi/L							U
Sample ID: LCS-R102460	Laboratory Control Sample								05/27/08 08:30
Lead 210	130	pCi/L	1.0	111	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 06/27/08
 Work Order: R08040364

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_18574		
Sample ID: C08050370-001BMS Polonium 210	Sample Matrix Spike 48	pCi/L	1.0	98	70	130			06/02/08 13:40
Sample ID: C08050370-001BMSD Polonium 210	Sample Matrix Spike Duplicate 52	pCi/L	1.0	106	70	130	7.1	30	06/02/08 13:40
Sample ID: LCS-R102360 Polonium 210	Laboratory Control Sample 76	pCi/L	1.0	88	70	130			06/02/08 13:40
Sample ID: MB-R102360 Polonium 210	Method Blank -0.5	pCi/L							06/02/08 13:40
Method: RMO-3008							Batch: C_R100979		
Sample ID: R08040364-007H Polonium 210	Sample Matrix Spike 160	pCi/L	1.0	90	70	130			05/06/08 17:00
Sample ID: R08040364-007H Polonium 210	Sample Matrix Spike Duplicate 150	pCi/L	1.0	88	70	130	1.9	30	05/06/08 17:00
Sample ID: LCS-R100979 Polonium 210	Laboratory Control Sample 81	pCi/L	1.0	92	70	130			05/06/08 17:00
Sample ID: MB-R100979 Polonium 210	Method Blank 0.9	pCi/L							05/06/08 17:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT. Provide as much information as possible.

Company Name: REIIEC		Project Name, PWS, Permit, Etc. POWERTECH		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: LESTER		Contact Name: copy for man @ reiec.com		Email:	Sampler: (Please Print) Eric Kuntze
Invoice Address: LATER		Invoice Contact & Phone: #		Purchase Order:	Quote/Bottle Order:
Special Report/Formats – EII must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NEIAC <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____					
SAMPLER IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	ANALYSIS REQUESTED	
1. Daw Blvd GW 674		4/29/08	12:27	W	
2. Daw Blvd GW 678		4/29/08	13:41	W	
3. Daw Blvd GW 677		4/29/08	15:14	W	
4. Daw Blvd GW 675		4/29/08	17:47	W	
5. Daw Blvd GW 675		4/29/08	13:50	W	
6. Daw Blvd GW BLK		4/29/08	18:00	W	
7. Daw Blvd GW 685		4/29/08	19:00	W	
8.					
9.					
10.					
Custody Record MUST be Signed		Relinquished by (print): Eric Kuntze	Date/Time: 4/30/08 08:05	Signature: <i>[Signature]</i>	Received by Laboratory: KUNT & SLEITZ
Sample Disposal:		Return to Client:	Lab Disposal:	Date/Time: 4/30/08 08:05	

SEE ATTACHED
Normal Turnaround (TAT)
RUSH
Comments: **AH1 GW**

[Handwritten signature]

LABORATORY USE ONLY

Receipt Temp: **3.1** °C
 On Ice: Yes No
 Custody Seal: Y N
 Inhibit: Y N
 Signature: Y N
 Match: Y N

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

July 29, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

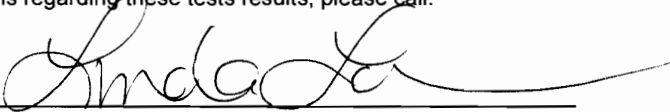
Workorder No.: R08050143 Quote ID: R286
 Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 5/13/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050143-001	DewBurd GW681	05/12/08 12:45	05/13/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050143-001
 Client Sample ID: DewBurd GW681

Report Date: 07/29/08
 Collection Date: 05/12/08 12:45
 Date Received: 05/13/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B	05/19/08 09:16/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/19/08 09:16/mb
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B	05/19/08 09:16/mb
Calcium	65.5	mg/L		0.5		2	E200.7	05/23/08 16:01/eli-c
Chloride	15	mg/L		1		1	E300.0	05/13/08 22:19/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	05/13/08 22:19/jmh
Magnesium	25.1	mg/L		0.5		2	E200.7	05/23/08 16:01/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/15/08 13:00/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/13/08 22:19/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/13/08 22:19/jmh
Potassium	9.6	mg/L		0.5		2	E200.7	05/23/08 16:01/eli-c
Silica	4.0	mg/L		0.5		2	E200.7	05/23/08 16:01/eli-c
Sodium	212	mg/L	D	2		2	E200.7	05/23/08 16:01/eli-c
Sulfate	449	mg/L	D	3		50	E300.0	05/13/08 22:02/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1390	umhos/cm		5.0		1	A2510 B	05/16/08 14:54/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	05/19/08 00:00/jmh
pH	7.91	s.u.		0.01		1	A4500-H B	05/16/08 11:40/tb
Sodium Adsorption Ratio (SAR)	5.6	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	05/14/08 08:25/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/23/08 16:01/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	06/04/08 04:31/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/23/08 16:01/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	05/23/08 16:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/04/08 04:31/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/23/08 16:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/04/08 04:31/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/23/08 16:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/04/08 04:31/eli-c
Manganese	0.10	mg/L		0.01		2	E200.7	05/23/08 16:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/04/08 04:31/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/23/08 16:01/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/23/08 16:01/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	06/03/08 15:04/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/04/08 04:31/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050143-001
 Client Sample ID: DewBurd GW681

Report Date: 07/29/08
 Collection Date: 05/12/08 12:45
 Date Received: 05/13/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 06/04/08 04:31/eli-c
Uranium	0.0095	mg/L		0.0003		1	E200.8 06/04/08 04:31/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 05/23/08 16:01/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7 05/23/08 16:01/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 06/03/08 22:53/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 06/03/08 11:07/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	2220	pCi/L				1	E900.0 07/15/08 06:03/eli-c
Gross Alpha precision (±)	32.1	pCi/L				1	E900.0 07/15/08 06:03/eli-c
Gross Alpha MDC	4.5	pCi/L				1	E900.0 07/15/08 06:03/eli-c
Gross Beta	675	pCi/L				1	E900.0 07/15/08 06:03/eli-c
Gross Beta precision (±)	7.9	pCi/L				1	E900.0 07/15/08 06:03/eli-c
Gross Beta MDC	3.8	pCi/L				1	E900.0 07/15/08 06:03/eli-c
Lead 210	40.5	pCi/L				1	E909.0M 06/27/08 08:45/eli-c
Lead 210 MDC	16.0	pCi/L				1	E909.0M 06/27/08 08:45/eli-c
Lead 210 precision (±)	10.2	pCi/L				1	E909.0M 06/27/08 08:45/eli-c
Polonium 210	1.6	pCi/L		1.0		1	RMO-3008 06/03/08 17:45/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008 06/03/08 17:45/eli-c
Radium 226	407	pCi/L				1	E903.0 05/28/08 13:52/eli-c
Radium 226 precision (±)	3.7	pCi/L				1	E903.0 05/28/08 13:52/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 05/23/08 11:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 05/23/08 11:45/eli-c
Gross Gamma	290	pCi/L		20		1	E901.1 05/28/08 05:30/eli-c
Gross Gamma precision (±)	35	pCi/L				1	E901.1 05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	20.8	pCi/L				1	E909.0M 06/29/08 08:15/eli-c
Lead 210 precision (±)	9.4	pCi/L				1	E909.0M 06/29/08 08:15/eli-c
Lead 210 MDC	15.1	pCi/L				1	E909.0M 06/29/08 08:15/eli-c
Polonium 210	2.4	pCi/L		1.0		1	RMO-3008 06/19/08 12:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008 06/19/08 12:00/eli-c
Radium 226	1.8	pCi/L				1	E903.0 06/02/08 15:56/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050143-001
 Client Sample ID: DewBurd GW681

Report Date: 07/29/08
 Collection Date: 05/12/08 12:45
 Date Received: 05/13/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	06/02/08 15:56/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/02/08 15:56/eli-c
Thorium 230	0.7	pCi/L		0.2			1	E907.0	05/23/08 10:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	05/23/08 10:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	246	pCi/L		100			1	D5072-92	05/19/08 19:17/eli-c
Radon 222 precision (±)	107	pCi/L					1	D5072-92	05/19/08 19:17/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	05/28/08 13:40/eli-c
Arsenic	0.003	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Barium	ND	mg/L		0.1			2	E200.7	05/20/08 22:05/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/23/08 17:14/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/20/08 22:05/eli-c
Copper	ND	mg/L		0.01			2	E200.7	05/20/08 22:05/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	05/20/08 22:05/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Manganese	0.10	mg/L		0.01			2	E200.7	05/20/08 22:05/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/02/08 08:05/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	05/28/08 13:40/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	05/20/08 22:05/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Silver	ND	mg/L		0.005			1	E200.8	05/28/08 13:40/eli-c
Strontium	1.3	mg/L		0.1			2	E200.7	05/20/08 22:05/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/28/08 13:40/eli-c
Uranium	0.0104	mg/L		0.0003			1	E200.8	05/28/08 13:40/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	05/23/08 17:14/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.47	%					1	A1030 E	07/18/08 00:00/jmh
Anions	13.3	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	14.8	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	891	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01						1	A1030 E	07/18/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080519A-ALK-SEL-W							
Sample ID: LCS1_080519A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			05/19/08 09:09
Sample ID: MBLK1_080519A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						05/19/08 09:13
Sample ID: R08050158-009AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 168	mg/L	5.0	102	80	120			05/19/08 09:51
Sample ID: R08050158-009AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 168	mg/L	5.0	102	80	120	0.0	10	05/19/08 09:53
Method: A2510 B		Batch: 080516_1_COND-PROBE-W							
Sample ID: LCS_COND-1_080516 Conductivity @ 25 C	Laboratory Control Sample 1440	umhos/cm	5.0	102	90	110			05/16/08 14:52
Sample ID: LCS1-1_080516 Conductivity @ 25 C	Laboratory Control Sample 143	umhos/cm	5.0	95	90	110			05/16/08 14:52
Sample ID: LCS2-1_080516 Conductivity @ 25 C	Laboratory Control Sample 4970	umhos/cm	5.0	99	90	110			05/16/08 14:53
Sample ID: R08050199-001ADUP Conductivity @ 25 C	Sample Duplicate 2560	umhos/cm	5.0				0.8	10	05/16/08 15:02
Method: A2540 C		Batch: 080514A-SLDS-TDS-W							
Sample ID: LCS1_080514A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	106	90	110			05/14/08 08:22
Sample ID: MBLK1_080514A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						05/14/08 08:23
Sample ID: R08050158-006AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 400	mg/L	5.0	104	80	120			05/14/08 08:29
Sample ID: R08050158-006AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 400	mg/L	5.0	102	80	120	1.0	10	05/14/08 08:29
Method: A2580 B		Batch: 080519-ORP-ISE-W							
Sample ID: R08050143-001F Oxidation-Reduction Potential	Sample Duplicate 240	mV					2.2	10	05/19/08 00:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080603A		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05			Run: SUB-C102059			06/03/08 11:03
Sample ID: 288-81-1 Selenium-IV	Laboratory Control Sample 0.051 mg/L		0.0010	101	90	110			06/03/08 11:05
Sample ID: C08050602-001EMS Selenium-IV	Sample Matrix Spike 0.051 mg/L		0.0010	101	85	115			06/03/08 11:14
Sample ID: C08050602-001EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.051 mg/L		0.0010	103	85	115	1.1	10	06/03/08 11:16
Method: A3114 B							Batch: C_SE3114-080603B		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C102093			06/03/08 15:00
Sample ID: 288-81-1 Selenium	Laboratory Control Sample 0.051 mg/L		0.0010	101	90	110			06/03/08 15:02
Sample ID: C08050602-001EMS Selenium	Sample Matrix Spike 0.049 mg/L		0.0010	98	85	115			06/03/08 15:06
Sample ID: C08050602-001EMSD Selenium	Sample Matrix Spike Duplicate 0.050 mg/L		0.0010	99	85	115	1.3	10	06/03/08 15:08
Method: A4500-H B							Batch: 080516_1_PH-W		
Sample ID: LCS_pH-1_080516 pH	Laboratory Control Sample 6.93 s.u.		0.010	101	98.55	101.45			05/16/08 11:36

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-05-15_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01				Run: TECHAA2-R_080515A		05/15/08 11:37
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	108	90	110	Run: TECHAA2-R_080515A		05/15/08 11:38
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110	Run: TECHAA2-R_080515A		05/15/08 11:39
Sample ID: R08050116-003BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.46	mg/L	0.10	92	80	120	Run: TECHAA2-R_080515A		05/15/08 12:54
Sample ID: R08050116-003BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.48	mg/L	0.10	100	80	120	4.7	10	05/15/08 12:55
Method: D5072-92							Batch: C_R101445		
Sample ID: MB-R101445 Radon 222	Method Blank 30	pCi/L					Run: SUB-C101445		05/19/08 19:17
Sample ID: LCS-R101445 Radon 222	Laboratory Control Sample 301	pCi/L	100	89	70	130	Run: SUB-C101445		05/19/08 19:17
Sample ID: C08050602-001GDUP Radon 222	Sample Duplicate 246	pCi/L	100				0.0	30	05/19/08 19:17

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18608		
Sample ID: MB-18608	Method Blank			Run: SUB-C101431			05/20/08 21:33		
Barium	ND	mg/L	0.006						
Boron	0.03	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.003	mg/L	0.001						
Sample ID: LCS3-18608	Laboratory Control Sample			Run: SUB-C101431			05/20/08 21:37		
Barium	0.526	mg/L	0.10	105	85	115			
Boron	0.547	mg/L	0.10	103	85	115			
Chromium	0.536	mg/L	0.050	107	85	115			
Copper	0.537	mg/L	0.010	107	85	115			
Iron	2.87	mg/L	0.030	115	85	115			
Manganese	2.71	mg/L	0.010	109	85	115			
Nickel	0.532	mg/L	0.050	106	85	115			
Strontium	0.547	mg/L	0.10	109	85	115			
Zinc	0.553	mg/L	0.010	110	85	115			
Sample ID: R08050143-001D	Sample Matrix Spike			Run: SUB-C101431			05/20/08 22:09		
Barium	0.529	mg/L	0.10	106	70	130			
Boron	0.549	mg/L	0.10	102	70	130			
Chromium	0.523	mg/L	0.050	105	70	130			
Copper	0.519	mg/L	0.010	104	70	130			
Iron	2.89	mg/L	0.030	114	70	130			
Manganese	2.77	mg/L	0.010	107	70	130			
Nickel	0.525	mg/L	0.050	105	70	130			
Strontium	1.78	mg/L	0.10	103	70	130			
Zinc	0.533	mg/L	0.010	105	70	130			
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate			Run: SUB-C101431			05/20/08 22:13		
Barium	0.517	mg/L	0.10	103	70	130	2.3	20	
Boron	0.541	mg/L	0.10	101	70	130	1.5	20	
Chromium	0.519	mg/L	0.050	104	70	130	0.8	20	
Copper	0.516	mg/L	0.010	103	70	130	0.7	20	
Iron	2.86	mg/L	0.030	113	70	130	1.0	20	
Manganese	2.70	mg/L	0.010	104	70	130	2.7	20	
Nickel	0.536	mg/L	0.050	107	70	130	2.1	20	
Strontium	1.76	mg/L	0.10	98	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18608		
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate			Run: SUB-C101431			05/20/08 22:13		
Zinc	0.526	mg/L	0.010	104	70	130	1.2	20	
Sample ID: MB-18608	Method Blank			Run: SUB-C101693			05/23/08 17:06		
Barium	ND	mg/L	0.006						
Boron	0.02	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.004	mg/L	0.001						
Sample ID: LCS3-18608	Laboratory Control Sample			Run: SUB-C101693			05/23/08 17:10		
Barium	0.541	mg/L	0.10	108	85	115			
Boron	0.540	mg/L	0.10	105	85	115			
Chromium	0.534	mg/L	0.050	107	85	115			
Copper	0.543	mg/L	0.010	109	85	115			
Iron	2.84	mg/L	0.030	113	85	115			
Manganese	2.73	mg/L	0.010	109	85	115			
Nickel	0.540	mg/L	0.050	108	85	115			
Strontium	0.541	mg/L	0.10	108	85	115			
Zinc	0.532	mg/L	0.010	106	85	115			
Sample ID: R08050143-001D	Sample Matrix Spike			Run: SUB-C101693			05/23/08 17:18		
Barium	0.553	mg/L	0.10	111	70	130			
Boron	0.618	mg/L	0.10	108	70	130			
Chromium	0.542	mg/L	0.050	108	70	130			
Copper	0.554	mg/L	0.010	111	70	130			
Iron	2.89	mg/L	0.030	114	70	130			
Manganese	2.86	mg/L	0.010	111	70	130			
Nickel	0.556	mg/L	0.050	111	70	130			
Strontium	1.81	mg/L	0.10	102	70	130			
Zinc	0.552	mg/L	0.010	109	70	130			
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate			Run: SUB-C101693			05/23/08 17:22		
Barium	0.547	mg/L	0.10	109	70	130	1.1	20	
Boron	0.612	mg/L	0.10	107	70	130	1.0	20	
Chromium	0.532	mg/L	0.050	106	70	130	1.9	20	
Copper	0.547	mg/L	0.010	109	70	130	1.1	20	
Iron	2.87	mg/L	0.030	113	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18608
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate					Run: SUB-C101693			05/23/08 17:22
Manganese	2.82	mg/L	0.010	109	70	130	1.5	20	
Nickel	0.544	mg/L	0.050	109	70	130	2.3	20	
Strontium	1.79	mg/L	0.10	98	70	130	1.2	20	
Zinc	0.539	mg/L	0.010	106	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101693		
Sample ID: MB-080523A	Method Blank		Run: SUB-C101693			05/23/08 15:53			
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.04	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	0.005	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.03	mg/L	0.003						
Zinc	0.004	mg/L	0.002						
Sample ID: LFB-080523A	Laboratory Fortified Blank		Run: SUB-C101693			05/23/08 15:57			
Silica	0.37	mg/L	0.10	93	85	125			
Aluminum	0.98	mg/L	0.10	98	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.1	mg/L	0.10	103	85	125			
Calcium	52	mg/L	0.50	104	85	125			
Chromium	1.00	mg/L	0.050	100	85	125			
Iron	1.1	mg/L	0.030	106	85	125			
Magnesium	52	mg/L	0.50	103	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	0.98	mg/L	0.10	98	85	125			
Nickel	1.0	mg/L	0.050	102	85	125			
Potassium	46	mg/L	0.50	92	85	125			
Sodium	49	mg/L	0.77	98	85	125			
Vanadium	1.1	mg/L	0.10	102	85	125			
Zinc	0.99	mg/L	0.010	99	85	125			
Sample ID: R08050143-001C	Sample Matrix Spike		Run: SUB-C101693			05/23/08 16:05			
Aluminum	2.01	mg/L	0.10	99	70	130			
Barium	2.12	mg/L	0.10	104	70	130			
Boron	2.26	mg/L	0.10	105	70	130			
Chromium	2.11	mg/L	0.050	103	70	130			
Iron	2.19	mg/L	0.030	107	70	130			
Manganese	2.24	mg/L	0.010	105	70	130			
Molybdenum	2.03	mg/L	0.10	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101693		
Sample ID: R08050143-001C	Sample Matrix Spike			Run: SUB-C101693			05/23/08 16:05		
Nickel	2.16	mg/L	0.050	106	70	130			
Vanadium	2.23	mg/L	0.10	108	70	130			
Zinc	2.09	mg/L	0.010	102	70	130			
Calcium	176	mg/L	1.0	108	70	130			
Magnesium	137	mg/L	1.0	109	70	130			
Potassium	103	mg/L	1.0	92	70	130			
Silica	4.99	mg/L	0.10	96	70	130			
Sodium	310	mg/L	1.5	96	70	130			
Sample ID: R08050143-001C	Sample Matrix Spike Duplicate			Run: SUB-C101693			05/23/08 16:09		
Aluminum	1.87	mg/L	0.10	92	70	130	7.6	20	
Barium	2.06	mg/L	0.10	101	70	130	2.6	20	
Boron	2.18	mg/L	0.10	102	70	130	3.3	20	
Chromium	2.02	mg/L	0.050	99	70	130	4.4	20	
Iron	2.13	mg/L	0.030	104	70	130	2.8	20	
Manganese	2.16	mg/L	0.010	101	70	130	3.5	20	
Molybdenum	1.97	mg/L	0.10	96	70	130	2.8	20	
Nickel	2.05	mg/L	0.050	101	70	130	4.8	20	
Vanadium	2.18	mg/L	0.10	105	70	130	2.4	20	
Zinc	2.02	mg/L	0.010	98	70	130	3.5	20	
Calcium	169	mg/L	1.0	101	70	130	4.0	20	
Magnesium	131	mg/L	1.0	104	70	130	4.3	20	
Potassium	103	mg/L	1.0	91	70	130	0.4	20	
Silica	4.81	mg/L	0.10	79	70	130	3.6	20	
Sodium	310	mg/L	1.5	97	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18608		
Sample ID: MB-18608	Method Blank		Run: SUB-C101838			05/28/08 13:27			
Antimony	0.0002	mg/L	0.0002						
Arsenic	0.0006	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	5E-05						
Selenium	0.0002	mg/L	0.0002						
Silver	4E-05	mg/L	4E-05						
Thallium	4E-05	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18608	Laboratory Control Sample		Run: SUB-C101838			05/28/08 13:34			
Antimony	0.578	mg/L	0.050	115	85	115			
Arsenic	0.553	mg/L	0.0010	111	85	115			
Beryllium	0.276	mg/L	0.010	111	85	115			
Cadmium	0.268	mg/L	0.010	107	85	115			
Lead	0.553	mg/L	0.050	111	85	115			
Molybdenum	0.553	mg/L	0.10	111	85	115			
Selenium	0.546	mg/L	0.0010	109	85	115			
Silver	0.0527	mg/L	0.010	105	85	115			
Thallium	0.566	mg/L	0.10	113	85	115			
Uranium	0.443	mg/L	0.00030	89	85	115			
Sample ID: R08050143-001D	Sample Matrix Spike		Run: SUB-C101838			05/28/08 13:47			
Antimony	0.571	mg/L	0.050	114	70	130			
Arsenic	0.546	mg/L	0.0010	108	70	130			
Beryllium	0.266	mg/L	0.010	106	70	130			
Cadmium	0.262	mg/L	0.010	105	70	130			
Lead	0.554	mg/L	0.050	111	70	130			
Molybdenum	0.550	mg/L	0.10	110	70	130			
Selenium	0.529	mg/L	0.0010	106	70	130			
Silver	0.0517	mg/L	0.010	103	70	130			
Thallium	0.577	mg/L	0.10	115	70	130			
Uranium	0.471	mg/L	0.00030	92	70	130			
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate		Run: SUB-C101838			05/28/08 13:54			
Antimony	0.569	mg/L	0.050	114	70	130	0.2	20	
Arsenic	0.546	mg/L	0.0010	109	70	130	0.1	20	
Beryllium	0.268	mg/L	0.010	107	70	130	0.7	20	
Cadmium	0.257	mg/L	0.010	103	70	130	1.7	20	
Lead	0.548	mg/L	0.050	109	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18608		
Sample ID: R08050143-001D	Sample Matrix Spike Duplicate			Run: SUB-C101838			05/28/08 13:54		
Molybdenum	0.551	mg/L	0.10	110	70	130	0.2	20	
Selenium	0.535	mg/L	0.0010	107	70	130	1.2	20	
Silver	0.0507	mg/L	0.010	101	70	130	1.9	20	
Thallium	0.558	mg/L	0.10	111	70	130	3.3	20	
Uranium	0.460	mg/L	0.00030	90	70	130	2.6	20	
Method: E200.8							Batch: C_18653		
Sample ID: MB-18653	Method Blank			Run: SUB-C102135			06/03/08 22:39		
Uranium	5E-05	mg/L	2E-05						
Sample ID: LCS1-18653	Laboratory Control Sample			Run: SUB-C102135			06/03/08 22:46		
Uranium	0.0230	mg/L	0.00030	109	80	120			
Sample ID: R08050199-001I	Post Digestion Spike			Run: SUB-C102135			06/03/08 23:06		
Uranium	0.0510	mg/L	0.00030	101	70	130			
Sample ID: R08050199-001I	Post Digestion Spike Duplicate			Run: SUB-C102135			06/03/08 23:13		
Uranium	0.0518	mg/L	0.00030	103	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102135		
Sample ID: LRB	Method Blank		Run: SUB-C102135			06/03/08 13:25			
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	7E-05	mg/L	3E-05						
Thorium 232	6E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C102135			06/03/08 13:32			
Arsenic	0.0548	mg/L	0.0010	110	85	115			
Cadmium	0.0538	mg/L	0.0010	108	85	115			
Copper	0.0545	mg/L	0.0010	109	85	115			
Lead	0.0529	mg/L	0.0010	106	85	115			
Mercury	0.00522	mg/L	0.0010	104	85	115			
Silver	0.0195	mg/L	0.0010	97	85	115			
Thorium 232	0.0526	mg/L	0.0010	105	85	115			
Uranium	0.0529	mg/L	0.00030	106	85	115			
Sample ID: C08051200-001CMS	Sample Matrix Spike		Run: SUB-C102135			06/03/08 14:34			
Arsenic	0.0557	mg/L	0.0010	107	70	130			
Cadmium	0.0516	mg/L	0.0010	103	70	130			
Copper	0.0534	mg/L	0.0010	102	70	130			
Lead	0.0537	mg/L	0.0010	104	70	130			
Mercury	0.00484	mg/L	0.0010	97	70	130			
Silver	0.0103	mg/L	0.0050	103	70	130			
Uranium	0.0632	mg/L	0.00030	109	70	130			
Sample ID: C08051200-001CMSD	Sample Matrix Spike Duplicate		Run: SUB-C102135			06/03/08 14:41			
Arsenic	0.0563	mg/L	0.0010	108	70	130	1.2	20	
Cadmium	0.0525	mg/L	0.0010	105	70	130	1.7	20	
Copper	0.0551	mg/L	0.0010	105	70	130	3.2	20	
Lead	0.0559	mg/L	0.0010	109	70	130	3.9	20	
Mercury	0.00499	mg/L	0.0010	100	70	130	3.0	20	
Silver	0.0102	mg/L	0.0050	102	70	130	0.5	20	
Uranium	0.0640	mg/L	0.00030	111	70	130	1.3	20	
Sample ID: R08050143-001C	Post Digestion Spike		Run: SUB-C102135			06/04/08 04:38			
Arsenic	0.0547	mg/L	0.0010	105	70	130			
Cadmium	0.0493	mg/L	0.010	99	70	130			
Copper	0.0516	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102135		
Sample ID: R08050143-001C	Post Digestion Spike			Run: SUB-C102135			06/04/08 04:38		
Lead	0.0527	mg/L	0.050	105	70	130			
Mercury	0.00513	mg/L	0.0010	103	70	130			
Silver	0.0107	mg/L	0.010	53	70	130			S
Thorium 232	0.0533	mg/L	0.0010	107	70	130			
Uranium	0.0633	mg/L	0.00030	107	70	130			
Sample ID: R08050143-001C							06/04/08 04:45		
Post Digestion Spike Duplicate			Run: SUB-C102135						
Arsenic	0.0527	mg/L	0.0010	101	70	130	3.7	20	
Cadmium	0.0498	mg/L	0.010	100	70	130	1.0	20	
Copper	0.0502	mg/L	0.010	98	70	130	2.6	20	
Lead	0.0527	mg/L	0.050	105	70	130	0.1	20	
Mercury	0.00522	mg/L	0.0010	104	70	130	1.7	20	
Silver	0.0130	mg/L	0.010	65	70	130	20	20	SR
Thorium 232	0.0540	mg/L	0.0010	108	70	130	1.4	20	
Uranium	0.0632	mg/L	0.00030	107	70	130	0.2	20	
Method: E245.1							Batch: C_B_32731		
Sample ID: MB-32731	Method Blank			Run: SUB-C102024			06/02/08 07:27		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32731	Laboratory Fortified Blank			Run: SUB-C102024			06/02/08 07:30		
Mercury	0.0021	mg/L	0.0010	105	85	115			
Sample ID: B08051951-002AMS	Sample Matrix Spike			Run: SUB-C102024			06/02/08 08:23		
Mercury	0.0021	mg/L	0.0010	103	70	130			
Sample ID: B08051951-002AMSD	Sample Matrix Spike Duplicate			Run: SUB-C102024			06/02/08 08:28		
Mercury	0.0018	mg/L	0.0010	92	70	130	12	30	
Method: E245.1							Analytical Run: SUB-C102024		
Sample ID: QCS	Initial Calibration Verification Standard						06/02/08 07:06		
Mercury	0.0021	mg/L	0.0010	103	90	110			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34773		
Sample ID: LFB0805130630-3	Laboratory Fortified Blank			Run: DIONEX_080513A			05/13/08 19:18		
Chloride	4.51	mg/L	0.50	90	90	110			
Fluoride	1.77	mg/L	0.10	89	90	110			S
Nitrogen, Nitrate as N	2.24	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.31	mg/L	0.10	92	90	110			
Sulfate	13.4	mg/L	1.0	89	90	110			S
Sample ID: LFB0805130630-4	Laboratory Fortified Blank			Run: DIONEX_080513A			05/13/08 20:07		
Chloride	4.59	mg/L	0.50	92	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.36	mg/L	0.10	94	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: R08050135-001BMS	Sample Matrix Spike			Run: DIONEX_080513A			05/13/08 21:13		
Chloride	35.9	mg/L	0.50		80	120			A
Fluoride	2.22	mg/L	0.10	97	80	120			
Nitrogen, Nitrate as N	23.2	mg/L	0.10		80	120			A
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	80	120			
Sulfate	40.2	mg/L	1.0	76	80	120			S
Sample ID: R08050135-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080513A			05/13/08 21:29		
Chloride	35.8	mg/L	0.50		80	120	0.1	10	A
Fluoride	2.15	mg/L	0.10	93	80	120	3.2	10	
Nitrogen, Nitrate as N	23.3	mg/L	0.10		80	120	0.2	10	A
Nitrogen, Nitrite as N	2.30	mg/L	0.10	92	80	120	4.3	10	
Sulfate	39.8	mg/L	1.0	74	80	120	1.1	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0476		
Sample ID: MB-GrAB-0476	Method Blank				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	-1	pCi/L							
Gross Beta	-3	pCi/L							
Sample ID: UNAT-GrAB-0476	Laboratory Control Sample				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	150	pCi/L	112	70	130				
Sample ID: Cs137-GrAB-0476	Laboratory Control Sample				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	109	70	130				
Sample ID: C08060608-001PMS	Sample Matrix Spike				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	130	pCi/L	88	70	130				
Sample ID: C08060608-001PMSD	Sample Matrix Spike Duplicate				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	120	pCi/L	87	70	130	0.6	19.2		
Sample ID: C08060608-001PMS	Sample Matrix Spike				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	104	70	130				
Sample ID: C08060608-001PMSD	Sample Matrix Spike Duplicate				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	102	70	130	2.1	16.1		
Method: E901.1							Batch: C_R101877		
Sample ID: LCS-R101877	Laboratory Control Sample				Run: SUB-C101877			05/28/08 05:30	
Cesium 137	1140	pCi/L	20	82	70	130			
Sample ID: MB-R101877	Method Blank				Run: SUB-C101877			05/28/08 05:30	
Gross Gamma	ND	pCi/L						U	
Sample ID: C08050919-001HDUP	Sample Duplicate				Run: SUB-C101877			05/28/08 05:30	
Gross Gamma	6600	pCi/L	20				0.1	30	
Sample ID: C08051031-005HDUP	Sample Duplicate				Run: SUB-C101877			05/28/08 05:30	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: C_18653									
Sample ID: C08050705-001BMS Radium 226	Sample Matrix Spike 63	pCi/L		81	70	130			06/02/08 21:44
Sample ID: C08050705-001BMSD Radium 226	Sample Matrix Spike Duplicate 62	pCi/L		79	70	130	2.2	25.2	06/02/08 21:44
Sample ID: MB-18653 Radium 226	Method Blank -2	pCi/L							06/02/08 21:44 U
Sample ID: LCS-18653 Radium 226	Laboratory Control Sample 13	pCi/L		92	70	130			06/02/08 21:44
Method: E903.0 Batch: C_RA226-2817									
Sample ID: C08050599-001AMS Radium 226	Sample Matrix Spike 8.1	pCi/L		71	70	130			05/28/08 13:50
Sample ID: C08050599-001AMSD Radium 226	Sample Matrix Spike Duplicate 6.9	pCi/L		60	70	130	16	46	05/28/08 13:50 S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: MB-RA226-2817 Radium 226	Method Blank -0.1	pCi/L							05/28/08 16:36 U
Sample ID: LCS-RA226-2817 Radium 226	Laboratory Control Sample 8.5	pCi/L		109	70	130			05/28/08 16:36
Method: E907.0 Batch: C_18653									
Sample ID: C08050701-004AMS Thorium 230	Sample Matrix Spike 82.5	pCi/Filter	0.20	88	70	130			05/23/08 10:30
Sample ID: C08050701-004AMSD Thorium 230	Sample Matrix Spike Duplicate 89.3	pCi/Filter	0.20	96	70	130	8.0	30	05/23/08 10:30
Sample ID: LCS-R101872 Thorium 230	Laboratory Control Sample 55.2	pCi/Filter	0.20	115	70	130			05/23/08 10:30
Sample ID: MB-R101872 Thorium 230	Method Blank 0.7	pCi/Filter							05/23/08 10:30

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R102219		
Sample ID: LCS-R102219	Laboratory Control Sample					Run: SUB-C102219			05/23/08 11:45
Thorium 230	6.70	pCi/L	0.20	96	70	130			
Sample ID: R08050143-001H	Sample Matrix Spike					Run: SUB-C102219			05/23/08 11:45
Thorium 230	10.3	pCi/L	0.20	105	70	130			
Sample ID: R08050143-001H	Sample Matrix Spike Duplicate					Run: SUB-C102219			05/23/08 11:45
Thorium 230	9.40	pCi/L	0.20	98	70	130	9.1	30	
Sample ID: MB-R102219	Method Blank					Run: SUB-C102219			05/23/08 11:45
Thorium 230	ND	pCi/L							U
Method: E909.0M							Batch: C_18653		
Sample ID: R08050199-001I	Sample Matrix Spike					Run: SUB-C102938			06/29/08 08:15
Lead 210	1200	pCi/L		96	70	130			
Sample ID: R08050199-001I	Sample Matrix Spike Duplicate					Run: SUB-C102938			06/29/08 08:15
Lead 210	2400	pCi/L		102	70	130	71	30	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R102938	Method Blank					Run: SUB-C102938			06/29/08 08:15
Lead 210	ND	pCi/L							U
Sample ID: LCS-R102938	Laboratory Control Sample					Run: SUB-C102938			06/29/08 08:15
Lead 210	520	pCi/L		88	70	130			
Method: E909.0M							Batch: C_R104386		
Sample ID: C08050730-004FMS	Sample Matrix Spike					Run: SUB-C104386			06/27/08 08:45
Lead 210	1000	pCi/L		172	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MSD are acceptable the batch is approved.									
Sample ID: C08050730-004FMSD	Sample Matrix Spike Duplicate					Run: SUB-C104386			06/27/08 08:45
Lead 210	670	pCi/L		115	70	130	40	30	R
Sample ID: MB-R104386	Method Blank					Run: SUB-C104386			06/27/08 08:45
Lead 210	-2	pCi/L							U
Sample ID: LCS-R104386	Laboratory Control Sample					Run: SUB-C104386			06/27/08 08:45
Lead 210	110	pCi/L		98	70	130			

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050143

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R102444		
Sample ID: C08050737-001HMS Polonium 210	Sample Matrix Spike 51	pCi/L	1.0	112	70	130			06/03/08 17:45
Sample ID: C08050737-001HMSD Polonium 210	Sample Matrix Spike Duplicate 48	pCi/L	1.0	107	70	130	5.0	30	06/03/08 17:45
Sample ID: LCS-R102444 Polonium 210	Laboratory Control Sample 58	pCi/L	1.0	133	70	130			06/03/08 17:45 S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, and the RPD for the MS MSD pair are acceptable the batch is approved.									
Sample ID: MB-R102444 Polonium 210	Method Blank -0.1	pCi/L							06/03/08 17:45 U
Method: RMO-3008							Batch: C_R103071		
Sample ID: C08051031-005IMS Polonium 210	Sample Matrix Spike 42	pCi/L	1.0	99	70	130			06/19/08 12:00
Sample ID: C08051031-005IMSD Polonium 210	Sample Matrix Spike Duplicate 52	pCi/L	1.0	124	70	130	21	30	06/19/08 12:00
Sample ID: LCS-R103071 Polonium 210	Laboratory Control Sample 110	pCi/L	1.0	121	70	130			06/19/08 12:00
Sample ID: MB-R103071 Polonium 210	Method Blank 0.5	pCi/L							06/19/08 12:00

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

Page of

PLEASE PRINT - Provide as much information as possible.

Company Name: RESREC		Project Name, PWS, Permit, Etc. PowerTech Dasey Buckle		Sample Origin State: <u> </u>	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESREC		Contact Name: Cory Foreman @ resrec.com		Email: Cory Foreman @ resrec.com	Sampler: (Please Print) Eric Krantz
Invoice Address: RESREC		Invoice Contact & Phone: 4		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTTP <input type="checkbox"/> Format: <input type="checkbox"/> State: <u> </u> <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: <u> </u> <input type="checkbox"/> NELAC				Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) Dew Band GWCS1		Collection Date 5/14/08	Collection Time 12:45	MATRIX W	
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98		99		100	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

Requisitioned by (print): **Eric Krantz** Date/Time: **5/13/08 8:46** Signature: **[Signature]**
 Requisitioned by (print): **Eric Krantz** Date/Time: **5/13/08 8:46** Signature: **[Signature]**
 Sample Disposal: **Return to Client:** Lab Disposal: **Return to Client:**

LABORATORY USE ONLY

On Ice: Yes No
 Receipt Temp: **6.6 °C**
 Custody Seal: Y N
 Inhibit: Y N
 Signature: Y N
 Match: Y N
808060143-001



ANALYTICAL SUMMARY REPORT

July 29, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08050199 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 5/14/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050199-001	DewBurd GW680	05/13/08 16:06	05/14/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson
Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050199-001
 Client Sample ID: DewBurd GW680

Report Date: 07/29/08
 Collection Date: 05/13/08 16:06
 Date Received: 05/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	262	mg/L		5		1	A2320 B	05/19/08 11:19/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/19/08 11:19/mb
Bicarbonate as HCO3	319	mg/L		5		1	A2320 B	05/19/08 11:19/mb
Calcium	421	mg/L		0.5		2	E200.7	05/29/08 15:05/eli-c
Chloride	12	mg/L		1		1	E300.0	05/16/08 20:58/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	05/16/08 20:58/jmh
Magnesium	129	mg/L		0.5		2	E200.7	05/29/08 15:05/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/15/08 15:11/jmh
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	05/16/08 20:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/16/08 20:58/jmh
Potassium	19.5	mg/L		0.5		2	E200.7	05/29/08 15:05/eli-c
Silica	3.8	mg/L		0.5		2	E200.7	05/29/08 15:05/eli-c
Sodium	126	mg/L	D	2		2	E200.7	05/29/08 15:05/eli-c
Sulfate	1200	mg/L	D	3		50	E300.0	05/16/08 20:09/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2580	umhos/cm		5.0		1	A2510 B	05/16/08 14:57/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	05/19/08 00:00/jmh
pH	7.14	s.u.		0.01		1	A4500-H B	05/16/08 12:14/tb
Sodium Adsorption Ratio (SAR)	1.4	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	05/20/08 09:49/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/29/08 15:05/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	06/02/08 20:42/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/29/08 15:05/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	05/29/08 15:05/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/02/08 20:42/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/29/08 15:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/02/08 20:42/eli-c
Iron	0.19	mg/L		0.03		2	E200.7	05/29/08 15:05/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/02/08 20:42/eli-c
Manganese	0.47	mg/L		0.01		2	E200.7	05/29/08 15:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/02/08 20:42/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/29/08 15:05/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/29/08 15:05/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	05/30/08 17:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/02/08 20:42/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050199-001
 Client Sample ID: DewBurd GW680

Report Date: 07/29/08
 Collection Date: 05/13/08 16:06
 Date Received: 05/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/02/08 20:42/eli-c
Uranium	0.0213	mg/L		0.0003		1	E200.8	06/02/08 20:42/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	05/29/08 15:05/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	05/29/08 15:05/eli-c
METALS - SUSPENDED								
Uranium	0.0004	mg/L		0.0003		1	E200.8	06/03/08 22:59/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/30/08 13:57/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	05/30/08 18:20/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6500	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Alpha precision (±)	83.7	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Alpha MDC	10.6	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Beta	2250	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Beta precision (±)	23.3	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Gross Beta MDC	10.1	pCi/L				1	E900.0	07/15/08 06:03/eli-c
Lead 210	37.7	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Lead 210 MDC	16.0	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Lead 210 precision (±)	10.2	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Polonium 210	2.0	pCi/L		1.0		1	RMO-3008	06/03/08 17:45/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	06/03/08 17:45/eli-c
Radium 226	1430	pCi/L				1	E903.0	05/29/08 14:22/eli-c
Radium 226 precision (±)	6.6	pCi/L				1	E903.0	05/29/08 14:22/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/02/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/02/08 15:00/eli-c
Gross Gamma	940	pCi/L		20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	58	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	20.3	pCi/L	U			1	E909.0M	06/29/08 08:15/eli-c
Lead 210 precision (±)	36.4	pCi/L				1	E909.0M	06/29/08 08:15/eli-c
Lead 210 MDC	60.5	pCi/L				1	E909.0M	06/29/08 08:15/eli-c
Polonium 210	9.1	pCi/L		1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	4.9	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	13.2	pCi/L				1	E903.0	06/02/08 21:44/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050199-001
 Client Sample ID: DewBurd GW680

Report Date: 07/29/08
 Collection Date: 05/13/08 16:06
 Date Received: 05/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	2.3	pCi/L					1	E903.0	06/02/08 21:44/eli-c
Radium 226 MDC	1.7	pCi/L					1	E903.0	06/02/08 21:44/eli-c
Thorium 230	0.4	pCi/L		0.2			1	E907.0	05/23/08 10:30/eli-c
Thorium 230 precision (±)	0.9	pCi/L					1	E907.0	05/23/08 10:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	151000	pCi/L		100			1	D5072-92	05/19/08 19:17/eli-c
Radon 222 precision (±)	699	pCi/L					1	D5072-92	05/19/08 19:17/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/07/08 05:46/eli-c
Arsenic	0.005	mg/L		0.001			1	E200.8	05/29/08 02:58/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/29/08 02:58/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/07/08 05:46/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	05/29/08 18:11/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	05/29/08 02:58/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/29/08 18:11/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/29/08 02:58/eli-c
Iron	0.34	mg/L		0.03			2	E200.7	05/29/08 18:11/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/29/08 02:58/eli-c
Manganese	0.50	mg/L		0.01			2	E200.7	05/29/08 18:11/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/04/08 18:07/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	05/29/08 02:58/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/29/08 02:58/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/07/08 05:46/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/07/08 05:46/eli-c
Strontium	8.1	mg/L		0.1			1	E200.8	05/29/08 02:58/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/29/08 02:58/eli-c
Uranium	0.0238	mg/L		0.0003			1	E200.8	05/29/08 02:58/eli-c
Zinc	0.02	mg/L		0.01			2	E200.7	05/29/08 18:11/eli-c
DATA QUALITY									
A/C Balance (± 5)	10.2	%					1	A1030 E	07/18/08 00:00/jmh
Anions	30.6	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	37.6	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	2080	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.11						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080519A-ALK-SEL-W		
Sample ID: LCS1_080519A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			Run: PH_COND1-R_080519A 05/19/08 09:09
Sample ID: MBLK1_080519A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080519A 05/19/08 09:13
Sample ID: R08050190-010AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 184	mg/L	5.0	91	80	120			Run: PH_COND1-R_080519A 05/19/08 11:13
Sample ID: R08050190-010AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 192	mg/L	5.0	98	80	120	4.3	10	Run: PH_COND1-R_080519A 05/19/08 11:15
Method: A2510 B							Batch: 080516_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080516 Conductivity @ 25 C	Laboratory Control Sample 1440	umhos/cm	5.0	102	90	110			Run: PH_COND2-R_080516A 05/16/08 14:52
Sample ID: LCS1-1_080516 Conductivity @ 25 C	Laboratory Control Sample 143	umhos/cm	5.0	95	90	110			Run: PH_COND2-R_080516A 05/16/08 14:52
Sample ID: LCS2-1_080516 Conductivity @ 25 C	Laboratory Control Sample 4970	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080516A 05/16/08 14:53
Sample ID: R08050199-001ADUP Conductivity @ 25 C	Sample Duplicate 2560	umhos/cm	5.0				0.8	10	Run: PH_COND2-R_080516A 05/16/08 15:02
Method: A2540 C							Batch: 080520A-SLDS-TDS-W		
Sample ID: LCS1_080520A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	103	90	110			Run: BAL-4-R_080520A 05/20/08 09:30
Sample ID: MBLK1_080520A Solids, Total Dissolved TDS @ 180 C	Method Blank 4	mg/L	3						Run: BAL-4-R_080520A 05/20/08 09:32
Sample ID: R08040168-001ADUP Solids, Total Dissolved TDS @ 180 C	Sample Duplicate 440	mg/L	5.0				1.8	20	Run: BAL-4-R_080520A 05/20/08 09:33
Sample ID: R08050215-003AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 470	mg/L	5.0	107	80	120			Run: BAL-4-R_080520A 05/20/08 09:54
Sample ID: R08050215-003AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 470	mg/L	5.0	108	80	120	0.4	10	Run: BAL-4-R_080520A 05/20/08 09:55

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080519-ORP-ISE-W		
Sample ID: R08050143-001F	Sample Duplicate					Run: PH_COND1-R_080519B		05/19/08 00:00	
Oxidation-Reduction Potential	240	mV					2.2	10	
Method: A3114 B							Batch: C_SE3114-080530B		
Sample ID: MBLK	Method Blank					Run: SUB-C101945		05/30/08 13:53	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-81-1	Laboratory Control Sample					Run: SUB-C101945		05/30/08 13:55	
Selenium-IV	0.053	mg/L	0.0010	105	90	110			
Sample ID: R08050199-001E	Sample Matrix Spike					Run: SUB-C101945		05/30/08 13:59	
Selenium-IV	0.053	mg/L	0.0010	106	85	115			
Sample ID: R08050199-001E	Sample Matrix Spike Duplicate					Run: SUB-C101945		05/30/08 14:01	
Selenium-IV	0.054	mg/L	0.0010	107	85	115	1.0	10	
Method: A3114 B							Batch: C_SE3114-080530C		
Sample ID: MBLK	Method Blank					Run: SUB-C101946		05/30/08 17:18	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-81-1	Laboratory Control Sample					Run: SUB-C101946		05/30/08 17:20	
Selenium	0.054	mg/L	0.0010	108	90	110			
Sample ID: R08050199-001E	Sample Matrix Spike					Run: SUB-C101946		05/30/08 17:36	
Selenium	0.056	mg/L	0.0010	112	85	115			
Sample ID: R08050199-001E	Sample Matrix Spike Duplicate					Run: SUB-C101946		05/30/08 17:38	
Selenium	0.056	mg/L	0.0010	112	85	115	0.0	10	
Method: A4500-H B							Batch: 080516_1_PH-W		
Sample ID: LCS_pH-1_080516	Laboratory Control Sample					Run: PH_COND2-R_080516A		05/16/08 11:36	
pH	6.93	s.u.	0.010	101	98.55	101.45			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-05-15_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080515A			05/15/08 11:37
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	108	90	110			05/15/08 11:38
						Run: TECHAA2-R_080515A			05/15/08 11:39
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110			05/15/08 11:39
						Run: TECHAA2-R_080515A			05/15/08 15:07
Sample ID: R08050196-004CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	95	80	120			05/15/08 15:07
						Run: TECHAA2-R_080515A			05/15/08 15:08
Sample ID: R08050196-004CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.23	mg/L	0.10	92	80	120	3.9	10	05/15/08 15:08
Method: D5072-92							Batch: C_R101445		
Sample ID: MB-R101445 Radon 222	Method Blank 30	pCi/L							
						Run: SUB-C101445			05/19/08 19:17
Sample ID: LCS-R101445 Radon 222	Laboratory Control Sample 301	pCi/L	100	89	70	130			05/19/08 19:17
						Run: SUB-C101445			05/19/08 19:17
Sample ID: C08050787-001BDUP Radon 222	Sample Duplicate 251000	pCi/L	100				6.6	30	05/19/08 19:17
						Run: SUB-C101445			05/19/08 19:17
Sample ID: C08050602-001GDUP Radon 222	Sample Duplicate 246	pCi/L	100				0.0	30	05/19/08 19:17
Method: E200.7							Batch: C_18620		
Sample ID: R08050199-001D	Sample Matrix Spike								
Boron	0.653	mg/L	0.10	106	70	130			06/12/08 20:50
Chromium	0.534	mg/L	0.050	107	70	130			
Iron	3.04	mg/L	0.030	108	70	130			
Manganese	3.09	mg/L	0.010	104	70	130			
Zinc	0.543	mg/L	0.010	107	70	130			
						Run: SUB-C102628			06/12/08 20:54
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate								
Boron	0.665	mg/L	0.10	108	70	130	1.8	20	
Chromium	0.529	mg/L	0.050	106	70	130	0.9	20	
Iron	3.01	mg/L	0.030	107	70	130	0.9	20	
Manganese	3.08	mg/L	0.010	104	70	130	0.3	20	
Zinc	0.543	mg/L	0.010	107	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101901		
Sample ID: MB-080529A	Method Blank		Run: SUB-C101901			05/29/08 14:57			
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.02						
Barium	ND	mg/L	0.006						
Boron	0.03	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	0.007	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	0.004	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.02	mg/L	0.003						
Zinc	0.003	mg/L	0.002						
Sample ID: LFB-080529A	Laboratory Fortified Blank		Run: SUB-C101901			05/29/08 15:01			
Silica	0.37	mg/L	0.10	93	85	125			
Aluminum	0.92	mg/L	0.10	92	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.1	mg/L	0.10	107	85	125			
Calcium	55	mg/L	0.50	110	85	125			
Chromium	1.0	mg/L	0.050	101	85	125			
Iron	1.1	mg/L	0.030	107	85	125			
Magnesium	53	mg/L	0.50	106	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	0.98	mg/L	0.10	98	85	125			
Nickel	1.0	mg/L	0.050	100	85	125			
Potassium	47	mg/L	0.50	94	85	125			
Sodium	51	mg/L	0.77	101	85	125			
Vanadium	1.1	mg/L	0.10	108	85	125			
Zinc	1.0	mg/L	0.010	-143	85	125			S
Sample ID: R08050199-001C	Sample Matrix Spike		Run: SUB-C101901			05/29/08 15:09			
Aluminum	1.77	mg/L	0.10	87	70	130			
Barium	2.07	mg/L	0.10	101	70	130			
Boron	2.29	mg/L	0.10	103	70	130			
Chromium	2.06	mg/L	0.050	101	70	130			
Iron	2.37	mg/L	0.030	107	70	130			
Manganese	2.52	mg/L	0.010	100	70	130			
Molybdenum	1.97	mg/L	0.10	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101901		
Sample ID: R08050199-001C	Sample Matrix Spike			Run: SUB-C101901			05/29/08 15:09		
Nickel	2.04	mg/L	0.050	100	70	130			
Vanadium	2.24	mg/L	0.10	108	70	130			
Zinc	2.09	mg/L	0.010	102	70	130			
Calcium	507	mg/L	1.0		70	130			A
Magnesium	232	mg/L	1.0	102	70	130			
Potassium	110	mg/L	1.0	89	70	130			
Silica	5.07	mg/L	0.10		70	130			A
Sodium	226	mg/L	1.5	98	70	130			
Sample ID: R08050199-001C	Sample Matrix Spike Duplicate			Run: SUB-C101901			05/29/08 15:16		
Aluminum	1.94	mg/L	0.10	95	70	130	9.2	20	
Barium	2.01	mg/L	0.10	98	70	130	3.1	20	
Boron	2.26	mg/L	0.10	101	70	130	1.4	20	
Chromium	2.01	mg/L	0.050	99	70	130	2.2	20	
Iron	2.32	mg/L	0.030	104	70	130	2.4	20	
Manganese	2.48	mg/L	0.010	98	70	130	1.7	20	
Molybdenum	1.94	mg/L	0.10	94	70	130	1.8	20	
Nickel	2.01	mg/L	0.050	99	70	130	1.3	20	
Vanadium	2.13	mg/L	0.10	103	70	130	5.0	20	
Zinc	2.04	mg/L	0.010	99	70	130	2.6	20	
Calcium	496	mg/L	1.0		70	130	2.3	20	A
Magnesium	231	mg/L	1.0	101	70	130	0.4	20	
Potassium	110	mg/L	1.0	89	70	130	0.6	20	
Silica	5.13	mg/L	0.10		70	130	1.2	20	A
Sodium	226	mg/L	1.5	99	70	130	0.3	20	
Sample ID: C08050806-001BMS2	Sample Matrix Spike			Run: SUB-C101901			05/29/08 16:09		
Aluminum	4.64	mg/L	0.10	91	70	130			
Barium	5.04	mg/L	0.10	98	70	130			
Boron	5.83	mg/L	0.10	101	70	130			
Chromium	5.04	mg/L	0.050	99	70	130			
Iron	5.74	mg/L	0.044	103	70	130			
Manganese	5.09	mg/L	0.010	100	70	130			
Molybdenum	4.81	mg/L	0.10	94	70	130			
Nickel	4.96	mg/L	0.050	97	70	130			
Vanadium	5.51	mg/L	0.10	105	70	130			
Zinc	5.09	mg/L	0.010	99	70	130			
Calcium	483	mg/L	1.0	103	70	130			
Magnesium	307	mg/L	1.0	101	70	130			
Potassium	236	mg/L	1.0	90	70	130			
Silica	7.16	mg/L	0.10	74	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R101901		
Sample ID: C08050806-001BMS2	Sample Matrix Spike			Run: SUB-C101901			05/29/08 16:09		
Sodium	691	mg/L	2.7	95	70	130			
Sample ID: C08050806-001BMSD2							05/29/08 16:13		
Sample Matrix Spike Duplicate			Run: SUB-C101901						
Aluminum	4.81	mg/L	0.10	94	70	130	3.7	20	
Barium	4.89	mg/L	0.10	95	70	130	3.1	20	
Boron	5.65	mg/L	0.10	98	70	130	3.1	20	
Chromium	4.87	mg/L	0.050	96	70	130	3.4	20	
Iron	5.61	mg/L	0.044	100	70	130	2.2	20	
Manganese	4.91	mg/L	0.010	96	70	130	3.6	20	
Molybdenum	4.73	mg/L	0.10	93	70	130	1.6	20	
Nickel	4.83	mg/L	0.050	95	70	130	2.6	20	
Vanadium	5.31	mg/L	0.10	101	70	130	3.8	20	
Zinc	4.87	mg/L	0.010	95	70	130	4.5	20	
Calcium	471	mg/L	1.0	98	70	130	2.6	20	
Magnesium	298	mg/L	1.0	98	70	130	2.9	20	
Potassium	237	mg/L	1.0	90	70	130	0.3	20	
Silica	7.21	mg/L	0.10	76	70	130			
Sodium	694	mg/L	2.7	97	70	130	0.5	20	
Method: E200.7_8							Batch: C_18620		
Sample ID: R08050199-001D	Sample Matrix Spike			Run: SUB-C101901			05/29/08 18:15		
Boron	0.663	mg/L	0.0010	105	70	130			
Chromium	0.548	mg/L	0.0010	110	70	130			
Iron	3.16	mg/L	0.0010	113	70	130			
Manganese	3.18	mg/L	0.0010	107	70	130			
Zinc	0.568	mg/L	0.0010	111	70	130			
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate			Run: SUB-C101901			05/29/08 18:19		
Boron	0.687	mg/L	0.0010	110	70	130	3.6	20	
Chromium	0.552	mg/L	0.0010	110	70	130	0.8	20	
Iron	3.20	mg/L	0.0010	114	70	130	1.3	20	
Manganese	3.21	mg/L	0.0010	108	70	130	0.8	20	
Zinc	0.573	mg/L	0.0010	112	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18620		
Sample ID: MB-18620	Method Blank		Run: SUB-C101838			05/29/08 00:50			
Antimony	ND	mg/L	0.0002						
Arsenic	0.0005	mg/L	5E-05						
Barium	0.0001	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Copper	0.0003	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Molybdenum	0.0002	mg/L	5E-05						
Nickel	8E-05	mg/L	6E-05						
Silver	0.0001	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	4E-05	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18620	Laboratory Control Sample		Run: SUB-C101838			05/29/08 01:24			
Arsenic	0.499	mg/L	0.0010	100	85	115			
Barium	0.562	mg/L	0.10	112	85	115			
Cadmium	0.249	mg/L	0.010	100	85	115			
Copper	0.471	mg/L	0.010	94	85	115			
Lead	0.542	mg/L	0.050	108	85	115			
Molybdenum	0.563	mg/L	0.10	113	85	115			
Nickel	0.486	mg/L	0.050	97	85	115			
Silver	0.0470	mg/L	0.010	94	85	115			
Strontium	0.568	mg/L	0.10	114	85	115			
Thallium	0.559	mg/L	0.10	112	85	115			
Uranium	0.461	mg/L	0.00030	92	85	115			
Sample ID: R08050199-001D	Sample Matrix Spike		Run: SUB-C101838			05/29/08 03:05			
Antimony	0.607	mg/L	0.050	121	70	130			
Arsenic	0.521	mg/L	0.0010	103	70	130			
Barium	0.588	mg/L	0.10	115	70	130			
Cadmium	0.240	mg/L	0.010	96	70	130			
Copper	0.467	mg/L	0.010	93	70	130			
Lead	0.548	mg/L	0.050	110	70	130			
Molybdenum	0.581	mg/L	0.10	116	70	130			
Nickel	0.488	mg/L	0.050	96	70	130			
Strontium	8.51	mg/L	0.10		70	130			A
Thallium	0.577	mg/L	0.10	115	70	130			
Uranium	0.495	mg/L	0.00030	94	70	130			
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate		Run: SUB-C101838			05/29/08 03:11			
Antimony	0.597	mg/L	0.050	119	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18620		
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate			Run: SUB-C101838			05/29/08 03:11		
Arsenic	0.503	mg/L	0.0010	100	70	130	3.4	20	
Barium	0.577	mg/L	0.10	113	70	130	1.8	20	
Cadmium	0.234	mg/L	0.010	94	70	130	2.6	20	
Copper	0.451	mg/L	0.010	90	70	130	3.6	20	
Lead	0.543	mg/L	0.050	109	70	130	0.9	20	
Molybdenum	0.573	mg/L	0.10	114	70	130	1.5	20	
Nickel	0.474	mg/L	0.050	93	70	130	2.9	20	
Strontium	8.38	mg/L	0.10	70	130	1.6	20	20	A
Thallium	0.566	mg/L	0.10	113	70	130	2.0	20	
Uranium	0.493	mg/L	0.00030	94	70	130	0.3	20	
Sample ID: LCS3-18620	Laboratory Control Sample			Run: SUB-C102053			06/02/08 17:33		
Antimony	0.519	mg/L	0.050	104	85	115			
Arsenic	0.552	mg/L	0.0010	110	85	115			
Barium	0.532	mg/L	0.10	106	85	115			
Beryllium	0.266	mg/L	0.010	106	85	115			
Cadmium	0.269	mg/L	0.010	108	85	115			
Copper	0.509	mg/L	0.010	102	85	115			
Lead	0.529	mg/L	0.050	106	85	115			
Molybdenum	0.526	mg/L	0.10	105	85	115			
Nickel	0.508	mg/L	0.050	102	85	115			
Silver	0.0446	mg/L	0.010	89	85	115			
Strontium	0.543	mg/L	0.10	109	85	115			
Thallium	0.528	mg/L	0.10	106	85	115			
Uranium	0.527	mg/L	0.00032	105	85	115			
Sample ID: MB-18620	Method Blank			Run: SUB-C102135			06/03/08 18:30		
Antimony	0.0002	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Barium	0.0001	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Copper	0.001	mg/L	0.0002						
Lead	1E-05	mg/L							
Molybdenum	ND	mg/L	5E-05						
Nickel	0.0002	mg/L	6E-05						
Silver	5E-05	mg/L	5E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	4E-05						
Uranium	ND	mg/L	3E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18620		
Sample ID: R08050199-001D	Sample Matrix Spike			Run: SUB-C102135			06/03/08 19:51		
Antimony	0.556	mg/L	0.050	111	70	130			
Arsenic	0.518	mg/L	0.0010	102	70	130			
Barium	0.512	mg/L	0.10	100	70	130			
Beryllium	0.259	mg/L	0.010	103	70	130			
Cadmium	0.256	mg/L	0.010	102	70	130			
Copper	0.505	mg/L	0.010	100	70	130			
Lead	0.532	mg/L	0.050	106	70	130			
Molybdenum	0.535	mg/L	0.10	107	70	130			
Nickel	0.506	mg/L	0.050	101	70	130			
Silver	0.0433	mg/L	0.010	86	70	130			
Strontium	7.90	mg/L	0.10		70	130			A
Thallium	0.528	mg/L	0.10	106	70	130			
Uranium	0.533	mg/L	0.00032	102	70	130			
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate			Run: SUB-C102135			06/03/08 19:58		
Antimony	0.559	mg/L	0.050	112	70	130	0.5	20	
Arsenic	0.521	mg/L	0.0010	103	70	130	0.7	20	
Barium	0.515	mg/L	0.10	101	70	130	0.6	20	
Beryllium	0.252	mg/L	0.010	101	70	130	2.5	20	
Cadmium	0.253	mg/L	0.010	101	70	130	1.2	20	
Copper	0.506	mg/L	0.010	100	70	130	0.1	20	
Lead	0.524	mg/L	0.050	105	70	130	1.6	20	
Molybdenum	0.534	mg/L	0.10	107	70	130	0.1	20	
Nickel	0.505	mg/L	0.050	100	70	130	0.3	20	
Silver	0.0455	mg/L	0.010	91	70	130	4.9	20	
Strontium	8.02	mg/L	0.10		70	130	1.5	20	A
Thallium	0.521	mg/L	0.10	104	70	130	1.4	20	
Uranium	0.521	mg/L	0.00032	100	70	130	2.2	20	
Sample ID: R08050199-001D	Sample Matrix Spike			Run: SUB-C102298			06/07/08 05:53		
Antimony	0.537	mg/L	0.050	107	70	130			
Arsenic	0.525	mg/L	0.0010	104	70	130			
Barium	0.534	mg/L	0.10	104	70	130			
Beryllium	0.266	mg/L	0.010	106	70	130			
Cadmium	0.253	mg/L	0.010	101	70	130			
Copper	0.487	mg/L	0.010	97	70	130			
Lead	0.512	mg/L	0.050	102	70	130			
Molybdenum	0.510	mg/L	0.10	102	70	130			
Nickel	0.500	mg/L	0.050	100	70	130			
Selenium	0.499	mg/L	0.0020	100	70	130			
Silver	0.0447	mg/L	0.010	89	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18620		
Sample ID: R08050199-001D	Sample Matrix Spike			Run: SUB-C102298			06/07/08 05:53		
Strontium	7.56	mg/L	0.10		70	130			A
Thallium	0.506	mg/L	0.10	101	70	130			
Uranium	0.541	mg/L	0.00032	103	70	130			
Sample ID: R08050199-001D	Sample Matrix Spike Duplicate			Run: SUB-C102298			06/07/08 06:00		
Antimony	0.568	mg/L	0.050	114	70	130	5.6	20	
Arsenic	0.542	mg/L	0.0010	107	70	130	3.3	20	
Barium	0.555	mg/L	0.10	108	70	130	3.8	20	
Beryllium	0.272	mg/L	0.010	109	70	130	2.3	20	
Cadmium	0.263	mg/L	0.010	105	70	130	3.7	20	
Copper	0.505	mg/L	0.010	101	70	130	3.6	20	
Lead	0.533	mg/L	0.050	107	70	130	3.9	20	
Molybdenum	0.535	mg/L	0.10	107	70	130	4.9	20	
Nickel	0.520	mg/L	0.050	104	70	130	3.9	20	
Selenium	0.518	mg/L	0.0020	104	70	130	3.7	20	
Silver	0.0480	mg/L	0.010	96	70	130	7.0	20	
Strontium	7.91	mg/L	0.10		70	130	4.5	20	A
Thallium	0.527	mg/L	0.10	105	70	130	4.1	20	
Uranium	0.566	mg/L	0.00032	108	70	130	4.5	20	
Method: E200.8							Batch: C_18653		
Sample ID: MB-18653	Method Blank			Run: SUB-C102135			06/03/08 22:39		
Uranium	5E-05	mg/L	2E-05						
Sample ID: LCS1-18653	Laboratory Control Sample			Run: SUB-C102135			06/03/08 22:46		
Uranium	0.0230	mg/L	0.00030	109	80	120			
Sample ID: R08050199-001I	Post Digestion Spike			Run: SUB-C102135			06/03/08 23:06		
Uranium	0.0510	mg/L	0.00030	101	70	130			
Sample ID: R08050199-001I	Post Digestion Spike Duplicate			Run: SUB-C102135			06/03/08 23:13		
Uranium	0.0518	mg/L	0.00030	103	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102053		
Sample ID: LRB	Method Blank		Run: SUB-C102053			06/02/08 13:51			
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C102053			06/02/08 13:58			
Arsenic	0.0501	mg/L	0.0010	100	85	115			
Cadmium	0.0507	mg/L	0.0010	101	85	115			
Copper	0.0509	mg/L	0.0010	102	85	115			
Lead	0.0508	mg/L	0.0010	102	85	115			
Mercury	0.00477	mg/L	0.0010	95	85	115			
Silver	0.0196	mg/L	0.0010	98	85	115			
Thorium 232	0.0505	mg/L	0.0010	101	85	115			
Uranium	0.0511	mg/L	0.00030	102	85	115			
Sample ID: R08050199-001C	Post Digestion Spike		Run: SUB-C102053			06/02/08 20:48			
Arsenic	0.0554	mg/L	0.0010	103	70	130			
Cadmium	0.0489	mg/L	0.010	98	70	130			
Copper	0.0481	mg/L	0.010	95	70	130			
Lead	0.0517	mg/L	0.050	103	70	130			
Mercury	0.00484	mg/L	0.0010	97	70	130			
Silver	0.0109	mg/L	0.010	55	70	130			S
Thorium 232	0.0539	mg/L	0.0010	108	70	130			
Uranium	0.0748	mg/L	0.00030	107	70	130			
Sample ID: R08050199-001C	Post Digestion Spike Duplicate		Run: SUB-C102053			06/02/08 20:55			
Arsenic	0.0544	mg/L	0.0010	101	70	130	2.0	20	
Cadmium	0.0477	mg/L	0.010	95	70	130	2.3	20	
Copper	0.0499	mg/L	0.010	98	70	130	3.7	20	
Lead	0.0512	mg/L	0.050	102	70	130	1.0	20	
Mercury	0.00486	mg/L	0.0010	97	70	130	0.5	20	
Silver	0.0111	mg/L	0.010	55	70	130	1.1	20	S
Thorium 232	0.0533	mg/L	0.0010	106	70	130	1.2	20	
Uranium	0.0733	mg/L	0.00030	104	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_32786		
Sample ID: MB-32786	Method Blank				Run: SUB-C102258		06/04/08 17:57		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32786	Laboratory Fortified Blank				Run: SUB-C102258		06/04/08 18:05		
Mercury	0.0019	mg/L	0.0010	91	85	115			
Sample ID: B08052561-001DMS	Sample Matrix Spike				Run: SUB-C102258		06/04/08 18:14		
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: B08052561-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C102258		06/04/08 18:16		
Mercury	0.0021	mg/L	0.0010	100	70	130	7.0	30	
Method: E245.1							Analytical Run: SUB-C102258		
Sample ID: QCS	Initial Calibration Verification Standard				Run: SUB-C102258		06/04/08 17:50		
Mercury	0.0021	mg/L	0.0010	103	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34815		
Sample ID: LFB0805165430-3	Laboratory Fortified Blank					Run: DIONEX_080516A	05/16/08 19:36		
Chloride	4.67	mg/L	0.50	93	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.44	mg/L	0.10	98	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0805165430-4	Laboratory Fortified Blank					Run: DIONEX_080516A	05/16/08 19:52		
Chloride	4.58	mg/L	0.50	92	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	13.7	mg/L	1.0	91	90	110			
Sample ID: R08050199-001AMS	Sample Matrix Spike					Run: DIONEX_080516A	05/16/08 20:25		
Chloride	249	mg/L	5.4	89	80	120			
Fluoride	94.9	mg/L	0.56	88	80	120			
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1880	mg/L	3.4	90	80	120			
Sample ID: R08050199-001AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080516A	05/16/08 20:41		
Chloride	242	mg/L	5.4	86	80	120	2.8	10	
Fluoride	92.2	mg/L	0.56	86	80	120	2.9	10	
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120	3.2	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	3.2	10	
Sulfate	1860	mg/L	3.4	87	80	120	1.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0476		
Sample ID: MB-GrAB-0476	Method Blank				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	-1	pCi/L							
Gross Beta	-3	pCi/L							
Sample ID: UNAT-GrAB-0476	Laboratory Control Sample				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	150	pCi/L	112	70	130				
Sample ID: Cs137-GrAB-0476	Laboratory Control Sample				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	109	70	130				
Sample ID: C08060608-001PMS	Sample Matrix Spike				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	130	pCi/L	88	70	130				
Sample ID: C08060608-001PMSD	Sample Matrix Spike Duplicate				Run: SUB-C104198			07/11/08 21:29	
Gross Alpha	120	pCi/L	87	70	130	0.6	19.2		
Sample ID: C08060608-001PMS	Sample Matrix Spike				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	104	70	130				
Sample ID: C08060608-001PMSD	Sample Matrix Spike Duplicate				Run: SUB-C104198			07/11/08 21:29	
Gross Beta	100	pCi/L	102	70	130	2.1	16.1		
Method: E901.1							Batch: C_R101877		
Sample ID: LCS-R101877	Laboratory Control Sample				Run: SUB-C101877			05/28/08 05:30	
Cesium 137	1140	pCi/L	20	82	70	130			
Sample ID: MB-R101877	Method Blank				Run: SUB-C101877			05/28/08 05:30	
Gross Gamma	ND	pCi/L						U	
Sample ID: C08050919-001HDUP	Sample Duplicate				Run: SUB-C101877			05/28/08 05:30	
Gross Gamma	6600	pCi/L	20				0.1	30	
Sample ID: C08051031-005HDUP	Sample Duplicate				Run: SUB-C101877			05/28/08 05:30	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18653		
Sample ID: C08050601-001ADUP	Sample Duplicate				Run: SUB-C102132			06/02/08 15:56	
Radium 226	-1.2	pCi/L			70	130	7.7	134.8	U
Sample ID: C08050705-001BMS	Sample Matrix Spike				Run: SUB-C102132			06/02/08 21:44	
Radium 226	63	pCi/L		81	70	130			
Sample ID: C08050705-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C102132			06/02/08 21:44	
Radium 226	62	pCi/L		79	70	130	2.2	25.2	
Sample ID: MB-18653	Method Blank				Run: SUB-C102132			06/02/08 21:44	
Radium 226	-2	pCi/L							U
Sample ID: LCS-18653	Laboratory Control Sample				Run: SUB-C102132			06/02/08 21:44	
Radium 226	13	pCi/L		92	70	130			
Method: E903.0							Batch: C_RA226-2820		
Sample ID: TAP WATER-MS	Sample Matrix Spike				Run: SUB-C101991			05/29/08 15:57	
Radium 226	7.4	pCi/L		91	70	130			
Sample ID: TAP WATER-MSD	Sample Matrix Spike Duplicate				Run: SUB-C101991			05/29/08 15:57	
Radium 226	8.2	pCi/L		101	70	130	9.6	23.1	
Sample ID: MB-RA226-2820	Method Blank				Run: SUB-C101991			05/29/08 15:57	
Radium 226	-0.1	pCi/L							U
Sample ID: LCS-RA226-2820	Laboratory Control Sample				Run: SUB-C101991			05/29/08 15:57	
Radium 226	7.9	pCi/L		102	70	130			
Method: E907.0							Batch: C_18653		
Sample ID: C08050601-001ADUP	Sample Duplicate				Run: SUB-C101872			05/23/08 10:30	
Thorium 230	-0.0950	pCi/L	0.20		70	130	0.0	30	
Sample ID: C08050701-004AMS	Sample Matrix Spike				Run: SUB-C101872			05/23/08 10:30	
Thorium 230	82.5	pCi/Filter	0.20	88	70	130			
Sample ID: C08050701-004AMSD	Sample Matrix Spike Duplicate				Run: SUB-C101872			05/23/08 10:30	
Thorium 230	89.3	pCi/Filter	0.20	96	70	130	8.0	30	
Sample ID: LCS-R101872	Laboratory Control Sample				Run: SUB-C101872			05/23/08 10:30	
Thorium 230	55.2	pCi/Filter	0.20	115	70	130			
Sample ID: MB-R101872	Method Blank				Run: SUB-C101872			05/23/08 10:30	
Thorium 230	0.7	pCi/Filter							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/29/08
 Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R102465		
Sample ID: LCS-R102465	Laboratory Control Sample				Run: SUB-C102465			06/02/08 15:00	
Thorium 230	7.50	pCi/L	0.20	109	70	130			
Sample ID: R08050199-001H	Sample Matrix Spike				Run: SUB-C102465			06/02/08 15:00	
Thorium 230	16.1	pCi/L	0.20	99	70	130			
Sample ID: R08050199-001H	Sample Matrix Spike Duplicate				Run: SUB-C102465			06/02/08 15:00	
Thorium 230	17.0	pCi/L	0.20	103	70	130	5.4	30	
Sample ID: MB-R102465	Method Blank				Run: SUB-C102465			06/02/08 15:00	
Thorium 230	ND	pCi/L							
Method: E909.0M							Batch: C_18653		
Sample ID: C08050601-001ADUP	Sample Duplicate				Run: SUB-C102938			06/29/08 08:15	
Lead 210	-2.9	pCi/L					6000	30	R
- Activity of both samples is below detection limit, resulting in high RPD. Batch is acceptable.									
Sample ID: R08050199-001I	Sample Matrix Spike				Run: SUB-C102938			06/29/08 08:15	
Lead 210	1200	pCi/L		96	70	130			
Sample ID: R08050199-001I	Sample Matrix Spike Duplicate				Run: SUB-C102938			06/29/08 08:15	
Lead 210	2400	pCi/L		102	70	130	71	30	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R102938	Method Blank				Run: SUB-C102938			06/29/08 08:15	
Lead 210	ND	pCi/L							U
Sample ID: LCS-R102938	Laboratory Control Sample				Run: SUB-C102938			06/29/08 08:15	
Lead 210	520	pCi/L		88	70	130			
Method: E909.0M							Batch: C_R104386		
Sample ID: C08050730-004FMS	Sample Matrix Spike				Run: SUB-C104386			06/27/08 08:45	
Lead 210	1000	pCi/L		172	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MSD are acceptable the batch is approved.									
Sample ID: C08050730-004FMSD	Sample Matrix Spike Duplicate				Run: SUB-C104386			06/27/08 08:45	
Lead 210	670	pCi/L		115	70	130	40	30	R
Sample ID: MB-R104386	Method Blank				Run: SUB-C104386			06/27/08 08:45	
Lead 210	-2	pCi/L							U
Sample ID: LCS-R104386	Laboratory Control Sample				Run: SUB-C104386			06/27/08 08:45	
Lead 210	110	pCi/L		98	70	130			

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08050199

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R102444		
Sample ID: C08050737-001HMS Polonium 210	Sample Matrix Spike 51	pCi/L	1.0	112	70	130			
					Run: SUB-C102444		06/03/08 17:45		
Sample ID: C08050737-001HMSD Polonium 210	Sample Matrix Spike Duplicate 48	pCi/L	1.0	107	70	130	5.0	30	
					Run: SUB-C102444		06/03/08 17:45		
Sample ID: LCS-R102444 Polonium 210	Laboratory Control Sample 58	pCi/L	1.0	133	70	130			S
					Run: SUB-C102444		06/03/08 17:45		
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, and the RPD for the MS MSD pair are acceptable the batch is approved.									
Sample ID: MB-R102444 Polonium 210	Method Blank -0.1	pCi/L							U
					Run: SUB-C102444		06/03/08 17:45		
Method: RMO-3008							Batch: C_R103071		
Sample ID: C08051031-005IMS Polonium 210	Sample Matrix Spike 42	pCi/L	1.0	99	70	130			
					Run: SUB-C103071		06/19/08 12:00		
Sample ID: C08051031-005IMSD Polonium 210	Sample Matrix Spike Duplicate 52	pCi/L	1.0	124	70	130	21	30	
					Run: SUB-C103071		06/19/08 12:00		
Sample ID: LCS-R103071 Polonium 210	Laboratory Control Sample 110	pCi/L	1.0	121	70	130			
					Run: SUB-C103071		06/19/08 12:00		
Sample ID: MB-R103071 Polonium 210	Method Blank 0.5	pCi/L							
					Run: SUB-C103071		06/19/08 12:00		

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC Report Mail Address: RESPEC Invoice Address:		Project Name, PWS, Permit, Etc.: POWER TEST DAVEY BURROCK Contact Name: Cory Foreman Phone/Fax: 605-342-1510 Email: cforeman@respec.com		Sample Origin: SD State: SD Purchase Order:		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/> Sampler: (Please Print) Earl Klawns	
Special Report/Formats - ELL must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers: _____ Sample Type: <input type="checkbox"/> AWS <input type="checkbox"/> V <input type="checkbox"/> B <input type="checkbox"/> O <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Soils/Solids <input type="checkbox"/> Vegetation <input type="checkbox"/> Bioassay <input type="checkbox"/> Other		Shipped by: _____ Cooler Dilef: _____ Receipt Temp: 8.1 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal: Y <input type="checkbox"/> N <input type="checkbox"/> In tact: Y <input type="checkbox"/> N <input type="checkbox"/> Signature: _____ Match: Y <input type="checkbox"/> N <input type="checkbox"/>	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) DeBurd GW & PO		Collection Date: 5/13/08 Collection Time: 16:06		MATRIX: N		ANALYSIS REQUESTED: _____	
1 2 3 4 5 6 7 8 9 10		Date/Time: _____ Signature: _____		Date/Time: _____ Signature: _____		Date/Time: _____ Signature: _____	
Custody Record MUST be Signed		Date/Time: 5/14/08 Signature: [Signature]		Date/Time: 5/14/08 Signature: [Signature]		Date/Time: 5/14/08 Signature: [Signature]	

LABORATORY USE ONLY

6050199-001

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This service as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

August 14, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08050229 Quote ID: R286

Project Name: Edgemont

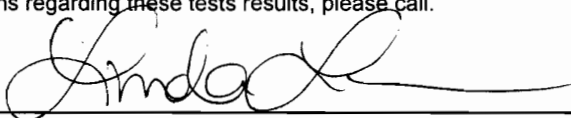
Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 5/19/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050229-001	DewBurd GW681	05/18/08 11:18	05/19/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08050229-002	DewBurd GW679	05/18/08 18:00	05/19/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____



Linda Larson
 Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050229-001
 Client Sample ID: DewBurd GW681

Report Date: 08/14/08
 Collection Date: 05/18/08 11:18
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B 05/19/08 14:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 05/19/08 14:53/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B 05/19/08 14:53/mb
Calcium	68.4	mg/L		0.5		2	E200.7 06/04/08 18:56/eli-c
Chloride	16	mg/L		1		1	E300.0 05/20/08 14:52/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 05/20/08 14:52/jmh
Magnesium	25.5	mg/L		0.5		2	E200.7 06/04/08 18:56/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 05/21/08 17:12/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 05/20/08 14:52/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 05/20/08 14:52/jmh
Potassium	9.6	mg/L		0.5		2	E200.7 06/04/08 18:56/eli-c
Silica	4.3	mg/L		0.5		2	E200.7 06/04/08 18:56/eli-c
Sodium	221	mg/L	D	2		2	E200.7 06/04/08 18:56/eli-c
Sulfate	465	mg/L	D	3		50	E300.0 05/20/08 14:02/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1500	umhos/cm		5.0		1	A2510 B 05/23/08 16:01/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B 05/19/08 00:00/jmh
pH	8.15	s.u.		0.01		1	A4500-H B 05/23/08 14:31/kh
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10		1	Calculation 08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5		1	A2540 C 05/20/08 10:04/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 06/04/08 18:56/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 06/04/08 15:59/eli-c
Barium	ND	mg/L		0.1		2	E200.7 06/04/08 18:56/eli-c
Boron	ND	mg/L		0.1		2	E200.7 06/04/08 18:56/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 06/04/08 15:59/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 06/04/08 18:56/eli-c
Copper	ND	mg/L		0.01		1	E200.8 06/04/08 15:59/eli-c
Iron	ND	mg/L		0.03		2	E200.7 06/04/08 18:56/eli-c
Lead	ND	mg/L		0.001		1	E200.8 06/04/08 15:59/eli-c
Manganese	0.10	mg/L		0.01		2	E200.7 06/04/08 18:56/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 06/04/08 15:59/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 06/04/08 18:56/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 06/04/08 18:56/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B 06/03/08 15:17/eli-c
Silver	ND	mg/L		0.005		1	E200.8 06/04/08 15:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050229-001
 Client Sample ID: DewBurd GW681

Report Date: 08/14/08
 Collection Date: 05/18/08 11:18
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/04/08 15:59/eli-c
Uranium	0.0096	mg/L		0.0003		1	E200.8	06/04/08 15:59/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/04/08 18:56/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/04/08 18:56/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 21:57/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:24/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1220	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha precision (±)	21.9	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha MDC	3.2	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta	304	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta precision (±)	5.5	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta MDC	3.7	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Lead 210	38.2	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	19.9	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	12.7	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	1.2	pCi/L		1.0		1	RMO-3008	06/03/08 17:45/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	06/03/08 17:45/eli-c
Radium 226	423	pCi/L				1	E903.0	06/08/08 17:06/eli-c
Radium 226 precision (±)	15.1	pCi/L				1	E903.0	06/08/08 17:06/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/05/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/05/08 15:00/eli-c
Gross Gamma	6600	pCi/L		20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	20.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.6	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	3.2	pCi/L		1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	1.6	pCi/L				1	E903.0	06/03/08 08:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050229-001
 Client Sample ID: DewBurd GW681

Report Date: 08/14/08
 Collection Date: 05/18/08 11:18
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	462000	pCi/L		100			1	D5072-92	05/23/08 07:37/eli-c
Radon 222 precision (±)	1020	pCi/L					1	D5072-92	05/23/08 07:37/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/06/08 17:28/eli-c
Arsenic	0.004	mg/L		0.001			1	E200.8	06/06/08 17:28/eli-c
Barium	ND	mg/L		0.1			2	E200.7	05/27/08 21:31/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 14:59/eli-c
Boron	ND	mg/L		0.1			2	E200.7	05/27/08 21:31/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	06/06/08 17:28/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/27/08 21:31/eli-c
Copper	ND	mg/L		0.01			2	E200.7	05/27/08 21:31/eli-c
Iron	0.05	mg/L		0.03			2	E200.7	05/27/08 21:31/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/06/08 17:28/eli-c
Manganese	0.09	mg/L		0.01			2	E200.7	05/27/08 21:31/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/04/08 19:54/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	06/06/08 17:28/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	05/27/08 21:31/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/06/08 17:28/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/06/08 17:28/eli-c
Strontium	1.3	mg/L		0.1			2	E200.7	05/27/08 21:31/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/06/08 17:28/eli-c
Uranium	0.0108	mg/L		0.0003			1	E200.8	06/06/08 17:28/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	05/27/08 21:31/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.53	%					1	A1030 E	08/09/08 00:00/jmh
Anions	13.8	meq/L					1	A1030 E	08/09/08 00:00/jmh
Cations	15.4	meq/L					1	A1030 E	08/09/08 00:00/jmh
Solids, Total Dissolved Calculated	926	mg/L					1	A1030 E	08/09/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	08/09/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050229-002
 Client Sample ID: DewBurd GW679

Report Date: 08/14/08
 Collection Date: 05/18/08 18:00
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	158	mg/L		5		1	A2320 B	05/19/08 14:58/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/19/08 14:58/mb
Bicarbonate as HCO3	193	mg/L		5		1	A2320 B	05/19/08 14:58/mb
Calcium	515	mg/L		0.5		2	E200.7	06/04/08 19:00/eli-c
Chloride	11	mg/L		1		1	E300.0	05/20/08 15:24/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/20/08 15:24/jmh
Magnesium	109	mg/L		0.5		2	E200.7	06/04/08 19:00/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/21/08 17:14/jmh
Nitrogen, Nitrate as N	1.1	mg/L		0.1		1	E300.0	05/20/08 15:24/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/20/08 15:24/jmh
Potassium	11.1	mg/L		0.5		2	E200.7	06/04/08 19:00/eli-c
Silica	6.0	mg/L		0.5		2	E200.7	06/04/08 19:00/eli-c
Sodium	82	mg/L	D	2		2	E200.7	06/04/08 19:00/eli-c
Sulfate	1440	mg/L	D	3		50	E300.0	05/20/08 15:08/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2880	umhos/cm		5.0		1	A2510 B	05/23/08 16:03/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	05/19/08 00:00/jmh
pH	7.83	s.u.		0.01		1	A4500-H B	05/23/08 14:34/kh
Sodium Adsorption Ratio (SAR)	0.86	unitless		0.10		1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	2500	mg/L		5		1	A2540 C	05/20/08 10:08/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/04/08 19:00/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/04/08 16:27/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/04/08 19:00/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	06/04/08 19:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/04/08 16:27/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/04/08 19:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/04/08 16:27/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/04/08 19:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/04/08 16:27/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	06/04/08 19:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/04/08 16:27/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/04/08 19:00/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/04/08 19:00/eli-c
Selenium	0.010	mg/L		0.005		1	A3114 B	06/03/08 15:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/04/08 16:27/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050229-002
 Client Sample ID: DewBurd GW679

Report Date: 08/14/08
 Collection Date: 05/18/08 18:00
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 06/04/08 16:27/eli-c
Uranium	0.0112	mg/L		0.0003		1	E200.8 06/04/08 16:27/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 06/04/08 19:00/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 06/04/08 19:00/eli-c
METALS - SUSPENDED							
Uranium	0.0012	mg/L		0.0003		1	E200.8 06/07/08 22:02/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 06/03/08 11:26/eli-c
Selenium-VI	0.010	mg/L		0.001		1	A3114 B 06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	22.4	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Alpha precision (±)	6.3	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Alpha MDC	7.5	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Beta	10.8	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Beta precision (±)	5.3	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Beta MDC	8.6	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Lead 210	4.5	pCi/L	U			1	E909.0M 06/25/08 11:25/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M 06/25/08 11:25/eli-c
Lead 210 precision (±)	10.7	pCi/L				1	E909.0M 06/25/08 11:25/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008 06/03/08 17:45/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008 06/03/08 17:45/eli-c
Radium 226	3.7	pCi/L				1	E903.0 06/08/08 18:37/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 06/08/08 18:37/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 06/05/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 06/05/08 15:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1 05/28/08 05:30/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-9.8	pCi/L	U			1	E909.0M 07/03/08 09:50/eli-c
Lead 210 precision (±)	20.8	pCi/L				1	E909.0M 07/03/08 09:50/eli-c
Lead 210 MDC	35.2	pCi/L				1	E909.0M 07/03/08 09:50/eli-c
Polonium 210	-0.3	pCi/L	U	1.0		1	RMO-3008 06/19/08 12:00/eli-c
Polonium 210 precision (±)	1.7	pCi/L				1	RMO-3008 06/19/08 12:00/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0 06/03/08 08:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050229-002
 Client Sample ID: DewBurd GW679

Report Date: 08/14/08
 Collection Date: 05/18/08 18:00
 Date Received: 05/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	1.1	pCi/L				1	E903.0	06/03/08 08:59/eli-c
Radium 226 MDC	1.8	pCi/L				1	E903.0	06/03/08 08:59/eli-c
Thorium 230	1.4	pCi/L		0.2		1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.9	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1250	pCi/L		100		1	D5072-92	05/23/08 07:37/eli-c
Radon 222 precision (±)	91.2	pCi/L				1	D5072-92	05/23/08 07:37/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 17:35/eli-c
Arsenic	0.011	mg/L		0.001		1	E200.8	06/06/08 17:35/eli-c
Barium	0.3	mg/L		0.1		2	E200.7	05/27/08 21:35/eli-c
Beryllium	0.002	mg/L		0.001		1	E200.8	06/09/08 15:05/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	05/27/08 21:35/eli-c
Cadmium	ND	mg/L		0.001		1	E200.8	06/06/08 17:35/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/27/08 21:35/eli-c
Copper	0.03	mg/L		0.01		2	E200.7	05/27/08 21:35/eli-c
Iron	26.4	mg/L		0.03		2	E200.7	05/27/08 21:35/eli-c
Lead	0.022	mg/L		0.001		1	E200.8	06/06/08 17:35/eli-c
Manganese	0.57	mg/L		0.01		2	E200.7	05/27/08 21:35/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 19:57/eli-b
Molybdenum	0.02	mg/L		0.01		1	E200.8	06/06/08 17:35/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/27/08 21:35/eli-c
Selenium	0.013	mg/L		0.001		1	E200.8	06/06/08 17:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 17:35/eli-c
Strontium	7.8	mg/L		0.1		2	E200.7	05/27/08 21:35/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 17:35/eli-c
Uranium	0.0164	mg/L		0.0003		1	E200.8	06/06/08 17:35/eli-c
Zinc	0.09	mg/L		0.01		2	E200.7	05/27/08 21:35/eli-c
DATA QUALITY								
A/C Balance (± 5)	6.81	%				1	A1030 E	08/09/08 00:00/jmh
Anions	33.6	meq/L				1	A1030 E	08/09/08 00:00/jmh
Cations	38.5	meq/L				1	A1030 E	08/09/08 00:00/jmh
Solids, Total Dissolved Calculated	2290	mg/L				1	A1030 E	08/09/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.09					1	A1030 E	08/09/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080519A-ALK-SEL-W							
Sample ID: LCS1_080519A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			Run: PH_COND1-R_080519A 05/19/08 09:09
Sample ID: MBLK1_080519A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080519A 05/19/08 09:13
Sample ID: R08050229-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 270	mg/L	5.0	106	80	120			Run: PH_COND1-R_080519A 05/19/08 15:04
Sample ID: R08050229-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 268	mg/L	5.0	104	80	120	0.7	10	Run: PH_COND1-R_080519A 05/19/08 15:09
Method: A2510 B		Batch: 080523_1_COND-PROBE-W							
Sample ID: LCS_COND-1_080523 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:55
Sample ID: LCS1-1_080523 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:56
Sample ID: LCS2-1_080523 Conductivity @ 25 C	Laboratory Control Sample 5000	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:57
Sample ID: R08050321-001ADUP Conductivity @ 25 C	Sample Duplicate 1460	umhos/cm	5.0				2.8	10	Run: PH_COND2-R_080523B 05/23/08 16:24
Method: A2540 C		Batch: 080520A-SLDS-TDS-W							
Sample ID: LCS1_080520A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	103	90	110			Run: BAL-4-R_080520A 05/20/08 09:30
Sample ID: MBLK1_080520A Solids, Total Dissolved TDS @ 180 C	Method Blank 4	mg/L	3						Run: BAL-4-R_080520A 05/20/08 09:32
Sample ID: R08040168-001ADUP Solids, Total Dissolved TDS @ 180 C	Sample Duplicate 440	mg/L	5.0				1.8	20	Run: BAL-4-R_080520A 05/20/08 09:33
Sample ID: R08050229-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1100	mg/L	5.0	97	80	120			Run: BAL-4-R_080520A 05/20/08 10:05
Sample ID: R08050229-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1100	mg/L	5.0	101	80	120	0.7	10	Run: BAL-4-R_080520A 05/20/08 10:07

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080519-ORP-ISE-W		
Sample ID: R08050143-001F Oxidation-Reduction Potential	Sample Duplicate 240	mV					2.2	10	05/19/08 00:00
Method: A3114 B							Batch: C_SE3114-080603A		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	6E-05						06/03/08 11:03
Sample ID: 288-81-1 Selenium-IV	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			06/03/08 11:05
Sample ID: C08050602-001EMS Selenium-IV	Sample Matrix Spike 0.051	mg/L	0.0010	101	85	115			06/03/08 11:14
Sample ID: C08050602-001EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.051	mg/L	0.0010	103	85	115	1.1	10	06/03/08 11:16
Sample ID: R08050321-005E Selenium-IV	Sample Matrix Spike 0.046	mg/L	0.0010	92	85	115			06/03/08 11:43
Sample ID: R08050321-005E Selenium-IV	Sample Matrix Spike Duplicate 0.047	mg/L	0.0010	94	85	115	1.7	10	06/03/08 11:45
Method: A3114 B							Batch: C_SE3114-080603B		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05						06/03/08 15:00
Sample ID: 288-81-1 Selenium	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			06/03/08 15:02
Sample ID: C08050602-001EMS Selenium	Sample Matrix Spike 0.049	mg/L	0.0010	98	85	115			06/03/08 15:06
Sample ID: C08050602-001EMSD Selenium	Sample Matrix Spike Duplicate 0.050	mg/L	0.0010	99	85	115	1.3	10	06/03/08 15:08
Sample ID: R08050321-005E Selenium	Sample Matrix Spike 0.045	mg/L	0.0010	91	85	115			06/03/08 15:36
Sample ID: R08050321-005E Selenium	Sample Matrix Spike Duplicate 0.045	mg/L	0.0010	90	85	115	0.3	10	06/03/08 15:38

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080523_1_PH-W		
Sample ID: LCS_pH-1_080523	Laboratory Control Sample								
pH	6.92	s.u.	0.010	101	98.55	101.45			Run: PH_COND2-R_080523A 05/23/08 14:21
Sample ID: R08050229-001ADUP	Sample Duplicate								
pH	8.18	s.u.	0.010				0.4	1.25	Run: PH_COND2-R_080523A 05/23/08 14:33
Method: A4500-NH3 G							Batch: A2008-05-21_2_NH3_01		
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						Run: TECHAA2-R_080521A 05/21/08 14:30
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.27	mg/L	0.10	109	90	110			Run: TECHAA2-R_080521A 05/21/08 14:31
Sample ID: LFB-4	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	90	110			Run: TECHAA2-R_080521A 05/21/08 14:32
Sample ID: R08050215-008CMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.25	mg/L	0.10	99	80	120			Run: TECHAA2-R_080521A 05/21/08 17:05
Sample ID: R08050215-008CMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.23	mg/L	0.10	93	80	120	5.8	10	Run: TECHAA2-R_080521A 05/21/08 17:07
Sample ID: R08050215-001CMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.27	mg/L	0.10	106	80	120			Run: TECHAA2-R_080521A 05/21/08 17:21
Sample ID: R08050215-001CMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.27	mg/L	0.10	106	80	120	0.4	10	Run: TECHAA2-R_080521A 05/21/08 17:22
Method: D5072-92							Batch: C_R101703		
Sample ID: C08050968-002IDUP	Sample Duplicate								
Radon 222	141	pCi/L	100				12	30	Run: SUB-C101703 05/23/08 07:37
Sample ID: MB-R101703	Method Blank								
Radon 222	20	pCi/L							Run: SUB-C101703 05/23/08 07:37 U
Sample ID: LCS-R101703	Laboratory Control Sample								
Radon 222	301	pCi/L	100	92	70	130			Run: SUB-C101703 05/23/08 07:37

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18674		
Sample ID: MB-18674	Method Blank			Run: SUB-C101828			05/27/08 21:06		
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.007	mg/L	0.001						
Sample ID: LCS3-18674	Laboratory Control Sample			Run: SUB-C101828			05/27/08 21:11		
Barium	0.53	mg/L	0.10	106	85	115			
Boron	0.51	mg/L	0.10	102	85	115			
Chromium	0.52	mg/L	0.050	104	85	115			
Copper	0.52	mg/L	0.010	104	85	115			
Iron	5.5	mg/L	0.030	111	85	115			
Manganese	2.6	mg/L	0.010	105	85	115			
Nickel	0.52	mg/L	0.050	104	85	115			
Strontium	0.54	mg/L	0.10	108	85	115			
Zinc	0.52	mg/L	0.010	103	85	115			
Sample ID: C08050971-007B MS3	Sample Matrix Spike			Run: SUB-C101828			05/27/08 23:08		
Barium	0.58	mg/L	0.10	105	70	130			
Boron	0.60	mg/L	0.10	106	70	130			
Chromium	0.54	mg/L	0.050	107	70	130			
Copper	0.53	mg/L	0.010	106	70	130			
Iron	5.6	mg/L	0.030	111	70	130			
Manganese	2.7	mg/L	0.010	106	70	130			
Nickel	0.54	mg/L	0.050	107	70	130			
Strontium	1.3	mg/L	0.10	101	70	130			
Zinc	0.53	mg/L	0.010	105	70	130			
Sample ID: C08050971-007B MSD3	Sample Matrix Spike Duplicate			Run: SUB-C101828			05/27/08 23:12		
Barium	0.58	mg/L	0.10	104	70	130	1.4	20	
Boron	0.59	mg/L	0.10	104	70	130	1.5	20	
Chromium	0.53	mg/L	0.050	106	70	130	1.3	20	
Copper	0.52	mg/L	0.010	104	70	130	1.9	20	
Iron	5.6	mg/L	0.030	111	70	130	0.2	20	
Manganese	2.6	mg/L	0.010	106	70	130	0.6	20	
Nickel	0.53	mg/L	0.050	106	70	130	1.1	20	
Strontium	1.3	mg/L	0.10	102	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18674
Sample ID: C08050971-007B MSD3	Sample Matrix Spike Duplicate					Run: SUB-C101828			05/27/08 23:12
Zinc	0.52	mg/L	0.010	104	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102193		
Sample ID: MB-080604A	Method Blank		Run: SUB-C102193			06/04/08 15:38			
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.03	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	0.02	mg/L	0.002						
Iron	0.1	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	0.002	mg/L	0.0003						
Molybdenum	0.003	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.02	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080604A	Laboratory Fortified Blank		Run: SUB-C102193			06/04/08 15:42			
Silica	0.38	mg/L	0.10	94	85	125			
Aluminum	0.93	mg/L	0.10	93	85	125			
Barium	1.0	mg/L	0.10	103	85	125			
Boron	1.1	mg/L	0.10	103	85	125			
Calcium	53	mg/L	0.50	106	85	125			
Chromium	1.0	mg/L	0.050	102	85	125			
Iron	1.1	mg/L	0.030	99	85	125			
Magnesium	53	mg/L	0.50	107	85	125			
Manganese	1.0	mg/L	0.010	104	85	125			
Molybdenum	1.0	mg/L	0.10	100	85	125			
Nickel	1.0	mg/L	0.050	103	85	125			
Potassium	49	mg/L	0.50	98	85	125			
Sodium	49	mg/L	0.77	98	85	125			
Vanadium	1.1	mg/L	0.10	109	85	125			
Zinc	1.0	mg/L	0.010	104	85	125			
Sample ID: C08050913-002CMS2	Sample Matrix Spike		Run: SUB-C102193			06/04/08 18:39			
Aluminum	2.09	mg/L	0.10	103	70	130			
Barium	2.04	mg/L	0.10	99	70	130			
Boron	2.14	mg/L	0.10	102	70	130			
Chromium	2.10	mg/L	0.050	103	70	130			
Iron	2.16	mg/L	0.030	105	70	130			
Manganese	2.23	mg/L	0.010	99	70	130			
Molybdenum	2.01	mg/L	0.10	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102193		
Sample ID: C08050913-002CMS2	Sample Matrix Spike			Run: SUB-C102193			06/04/08 18:39		
Nickel	2.08	mg/L	0.050	102	70	130			
Vanadium	2.08	mg/L	0.10	102	70	130			
Zinc	2.10	mg/L	0.010	103	70	130			
Calcium	177	mg/L	1.0	103	70	130			
Magnesium	135	mg/L	1.0	103	70	130			
Potassium	102	mg/L	1.0	89	70	130			
Silica	4.17	mg/L	0.10		70	130			A
Sodium	286	mg/L	1.5	97	70	130			
Sample ID: C08050913-002CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C102193			06/04/08 18:43		
Aluminum	2.03	mg/L	0.10	99	70	130	3.1	20	
Barium	2.11	mg/L	0.10	103	70	130	3.6	20	
Boron	2.16	mg/L	0.10	104	70	130	1.3	20	
Chromium	2.13	mg/L	0.050	104	70	130	1.6	20	
Iron	2.21	mg/L	0.030	107	70	130	2.2	20	
Manganese	2.28	mg/L	0.010	102	70	130	2.4	20	
Molybdenum	2.08	mg/L	0.10	102	70	130	3.6	20	
Nickel	2.09	mg/L	0.050	103	70	130	0.4	20	
Vanadium	2.14	mg/L	0.10	105	70	130	2.8	20	
Zinc	2.13	mg/L	0.010	104	70	130	1.3	20	
Calcium	180	mg/L	1.0	105	70	130	1.1	20	
Magnesium	136	mg/L	1.0	105	70	130	1.2	20	
Potassium	102	mg/L	1.0	89	70	130	0.4	20	
Silica	4.21	mg/L	0.10		70	130	1.1	20	A
Sodium	282	mg/L	1.5	92	70	130	1.5	20	
Method: E200.8							Batch: C_18688		
Sample ID: C08050953-001FMS	Sample Matrix Spike			Run: SUB-C102315			06/07/08 18:31		
Uranium	0.0132	mg/L	0.00030	97	70	130			
Sample ID: C08050953-001FMSD	Sample Matrix Spike Duplicate			Run: SUB-C102315			06/07/08 18:36		
Uranium	0.0133	mg/L	0.00030	98	70	130	0.8	20	
Sample ID: R08050321-005I	Post Digestion Spike			Run: SUB-C102315			06/07/08 22:50		
Uranium	0.0128	mg/L	0.00030	97	70	130			
Sample ID: R08050321-005I	Post Digestion Spike Duplicate			Run: SUB-C102315			06/07/08 22:55		
Uranium	0.0129	mg/L	0.00030	98	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18768		
Sample ID: MB-18768	Method Blank			Run: SUB-C102298			06/06/08 16:00		
Antimony	ND	mg/L	0.0002						
Arsenic	0.0007	mg/L	5E-05						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	7E-05						
Selenium	0.0003	mg/L	0.0002						
Silver	0.0001	mg/L	5E-05						
Thallium	0.0001	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18768	Laboratory Control Sample			Run: SUB-C102298			06/06/08 16:07		
Antimony	0.580	mg/L	0.050	116	85	115			
Arsenic	0.562	mg/L	0.0010	112	85	115			
Cadmium	0.275	mg/L	0.010	110	85	115			
Lead	0.568	mg/L	0.050	114	85	115			
Molybdenum	0.544	mg/L	0.10	109	85	115			
Selenium	0.569	mg/L	0.0020	114	85	115			
Silver	0.0480	mg/L	0.010	96	85	115			
Thallium	0.564	mg/L	0.10	113	85	115			
Sample ID: C08051073-001MMS3	Sample Matrix Spike			Run: SUB-C102298			06/06/08 18:56		
Antimony	0.540	mg/L	0.050	108	70	130			
Arsenic	0.536	mg/L	0.0010	107	70	130			
Cadmium	0.263	mg/L	0.010	105	70	130			
Lead	0.529	mg/L	0.050	105	70	130			
Molybdenum	0.531	mg/L	0.10	103	70	130			
Selenium	0.527	mg/L	0.0020	104	70	130			
Silver	0.0433	mg/L	0.010	87	70	130			
Thallium	0.519	mg/L	0.10	104	70	130			
Uranium	0.557	mg/L	0.00032	110	70	130			
Sample ID: C08051073-001MMSD3	Sample Matrix Spike Duplicate			Run: SUB-C102298			06/06/08 19:23		
Antimony	0.539	mg/L	0.050	108	70	130	0.2	20	
Arsenic	0.535	mg/L	0.0010	106	70	130	0.2	20	
Cadmium	0.264	mg/L	0.010	106	70	130	0.4	20	
Lead	0.529	mg/L	0.050	105	70	130	0.1	20	
Molybdenum	0.529	mg/L	0.10	103	70	130	0.4	20	
Selenium	0.534	mg/L	0.0020	105	70	130	1.3	20	
Silver	0.0451	mg/L	0.010	90	70	130	4.0	20	
Thallium	0.522	mg/L	0.10	104	70	130	0.5	20	
Uranium	0.572	mg/L	0.00032	113	70	130	2.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18768		
Sample ID: LCS3-18768	Laboratory Control Sample			Run: SUB-C102315			06/07/08 12:11		
Arsenic	0.519	mg/L	0.0010	104	85	115			
Lead	0.509	mg/L	0.050	102	85	115			
Molybdenum	0.504	mg/L	0.10	101	85	115			
Selenium	0.519	mg/L	0.0020	104	85	115			
Uranium	0.519	mg/L	0.00032	104	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102203		
Sample ID: LRB	Method Blank		Run: SUB-C102203				06/04/08 12:01		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C102203				06/04/08 12:07		
Arsenic	0.0502	mg/L	0.0010	100	85	115			
Cadmium	0.0502	mg/L	0.0010	100	85	115			
Copper	0.0509	mg/L	0.0010	102	85	115			
Lead	0.0503	mg/L	0.0010	101	85	115			
Mercury	0.00499	mg/L	0.0010	100	85	115			
Silver	0.0200	mg/L	0.0010	100	85	115			
Thorium 232	0.0495	mg/L	0.0010	99	85	115			
Uranium	0.0501	mg/L	0.00030	100	85	115			
Sample ID: C08050903-007GMS4	Post Digestion Spike		Run: SUB-C102203				06/04/08 15:26		
Arsenic	0.0518	mg/L	0.0010	101	70	130			
Cadmium	0.0475	mg/L	0.010	95	70	130			
Copper	0.0482	mg/L	0.010	95	70	130			
Lead	0.0498	mg/L	0.050	100	70	130			
Mercury	0.00459	mg/L	0.0010	92	70	130			
Silver	0.00192	mg/L	0.010	10	70	130			S
Thorium 232	0.0526	mg/L	0.0010	105	70	130			
Uranium	0.170	mg/L	0.00030	107	70	130			
Sample ID: C08050903-007GMSD4	Post Digestion Spike Duplicate		Run: SUB-C102203				06/04/08 15:32		
Arsenic	0.0525	mg/L	0.0010	102	70	130	1.3	20	
Cadmium	0.0480	mg/L	0.010	96	70	130	1.0	20	
Copper	0.0485	mg/L	0.010	95	70	130	0.7	20	
Lead	0.0507	mg/L	0.050	101	70	130	1.7	20	
Mercury	0.00480	mg/L	0.0010	96	70	130	4.6	20	
Silver	0.000603	mg/L	0.010	3	70	130	0.0	20	S
Thorium 232	0.0539	mg/L	0.0010	107	70	130	2.5	20	
Uranium	0.172	mg/L	0.00030	110	70	130	1.1	20	
Sample ID: C08050968-002BMS4	Post Digestion Spike		Run: SUB-C102203				06/04/08 17:02		
Arsenic	0.0517	mg/L	0.0010	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102203		
Sample ID: C08050968-002BMS4	Post Digestion Spike			Run: SUB-C102203			06/04/08 17:02		
Cadmium	0.0475	mg/L	0.010	95	70	130			
Copper	0.0492	mg/L	0.010	95	70	130			
Lead	0.0519	mg/L	0.050	103	70	130			
Mercury	0.00525	mg/L	0.0010	105	70	130			
Silver	0.0172	mg/L	0.010	86	70	130			
Thorium 232	0.0533	mg/L	0.0010	107	70	130			
Uranium	0.0536	mg/L	0.00030	107	70	130			
Sample ID: C08050968-002BMSD4	Post Digestion Spike Duplicate			Run: SUB-C102203			06/04/08 17:09		
Arsenic	0.0512	mg/L	0.0010	99	70	130	1.0	20	
Cadmium	0.0468	mg/L	0.010	94	70	130	1.5	20	
Copper	0.0480	mg/L	0.010	92	70	130	2.6	20	
Lead	0.0507	mg/L	0.050	101	70	130	2.2	20	
Mercury	0.00513	mg/L	0.0010	103	70	130	2.3	20	
Silver	0.0154	mg/L	0.010	77	70	130	11	20	
Thorium 232	0.0527	mg/L	0.0010	105	70	130	1.1	20	
Uranium	0.0525	mg/L	0.00030	104	70	130	2.2	20	
Method: E245.1							Batch: C_B_32786		
Sample ID: MB-32786	Method Blank			Run: SUB-C102258			06/04/08 17:57		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32786	Laboratory Fortified Blank			Run: SUB-C102258			06/04/08 18:05		
Mercury	0.0019	mg/L	0.0010	91	85	115			
Sample ID: B08052561-001DMS	Sample Matrix Spike			Run: SUB-C102258			06/04/08 18:14		
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: B08052561-001DMSD	Sample Matrix Spike Duplicate			Run: SUB-C102258			06/04/08 18:16		
Mercury	0.0021	mg/L	0.0010	100	70	130	7.0	30	
Sample ID: B08052499-002CMS	Sample Matrix Spike			Run: SUB-C102258			06/04/08 19:08		
Mercury	0.0017	mg/L	0.0010	87	70	130			
Sample ID: B08052499-002CMSD	Sample Matrix Spike Duplicate			Run: SUB-C102258			06/04/08 19:11		
Mercury	0.0016	mg/L	0.0010	79	70	130	9.1	30	
Method: E245.1							Analytical Run: SUB-C102258		
Sample ID: QCS	Initial Calibration Verification Standard						06/04/08 17:50		
Mercury	0.0021	mg/L	0.0010	103	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/14/08
Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34857		
Sample ID: LFB0805201727-3	Laboratory Fortified Blank			Run: DIONEX_080520A			05/20/08 13:29		
Chloride	4.71	mg/L	0.50	94	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: LFB0805201727-4	Laboratory Fortified Blank			Run: DIONEX_080520A			05/20/08 13:46		
Chloride	4.66	mg/L	0.50	93	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: R08050229-001AMS	Sample Matrix Spike			Run: DIONEX_080520A			05/20/08 14:19		
Chloride	257	mg/L	5.4	90	80	120			
Fluoride	94.2	mg/L	0.56	87	80	120			
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1110	mg/L	3.4	86	80	120			
Sample ID: R08050229-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080520A			05/20/08 14:35		
Chloride	249	mg/L	5.4	87	80	120	3.1	10	
Fluoride	91.2	mg/L	0.56	84	80	120	3.3	10	
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120	2.8	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	3.3	10	
Sulfate	1090	mg/L	3.4	83	80	120	2.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0457		
Sample ID: MB-GrAB-0457	Method Blank				Run: SUB-C102579				06/11/08 08:06
Gross Alpha	0.05	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: Th230-GrAB-0457	Laboratory Control Sample				Run: SUB-C102579				06/11/08 08:06
Gross Alpha	140	pCi/L	100	70	130				
Sample ID: Cs137-GrAB-0457	Laboratory Control Sample				Run: SUB-C102579				06/11/08 08:06
Gross Beta	87	pCi/L	94	70	130				
Sample ID: C08050953-001EMS	Sample Matrix Spike				Run: SUB-C102579				06/11/08 08:06
Gross Alpha	160	pCi/L	77	70	130				
Sample ID: C08050953-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C102579				06/11/08 08:06
Gross Alpha	150	pCi/L	75	70	130	1.7	17.5		
Sample ID: C08050953-001EMS	Sample Matrix Spike				Run: SUB-C102579				06/11/08 08:06
Gross Beta	100	pCi/L	93	70	130				
Sample ID: C08050953-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C102579				06/11/08 08:06
Gross Beta	99	pCi/L	91	70	130	2.5	15.6		
Method: E901.1							Batch: C_R101877		
Sample ID: LCS-R101877	Laboratory Control Sample				Run: SUB-C101877				05/28/08 05:30
Cesium 137	1140	pCi/L	20	82	70	130			
Sample ID: MB-R101877	Method Blank				Run: SUB-C101877				05/28/08 05:30
Gross Gamma	ND	pCi/L							U
Sample ID: R08050229-001H	Sample Duplicate				Run: SUB-C101877				05/28/08 05:30
Gross Gamma	6600	pCi/L	20				0.1	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18688		
Sample ID: C08050913-001IMS Radium 226	Sample Matrix Spike 77	pCi/L		98	70	130			06/03/08 08:59
Sample ID: C08050913-001IMSD Radium 226	Sample Matrix Spike Duplicate 72	pCi/L		91	70	130	7.4	25.5	06/03/08 08:59
Sample ID: MB-18688 Radium 226	Method Blank -0.4	pCi/L							06/03/08 10:37 U
Sample ID: LCS-18688 Radium 226	Laboratory Control Sample 15	pCi/L		99	70	130			06/03/08 10:37
Method: E903.0							Batch: C_RA226-2834		
Sample ID: C08050917-001AMS Radium 226	Sample Matrix Spike 430	pCi/L		-30	70	130			06/08/08 16:51 S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.									
Sample ID: C08050917-001AMSD Radium 226	Sample Matrix Spike Duplicate 430	pCi/L		53	70	130	1.5	17.2	06/08/08 16:58 S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.									
Sample ID: MB-RA226-2834 Radium 226	Method Blank 0.06	pCi/L							06/09/08 13:54 U
Sample ID: LCS-RA226-2834 Radium 226	Laboratory Control Sample 7.4	pCi/L		93	70	130			06/09/08 15:24
Method: E907.0							Batch: C_18688		
Sample ID: R08050321-001I Thorium 230	Sample Matrix Spike 20.6	pCi/L	0.20	88	70	130			05/29/08 15:00
Sample ID: R08050321-001I Thorium 230	Sample Matrix Spike Duplicate 22.8	pCi/L	0.20	102	70	130	10	30	05/29/08 15:00
Sample ID: LCS-18688 Thorium 230	Laboratory Control Sample 51.0	pCi/L	0.20	107	70	130			05/29/08 15:00
Sample ID: MB-18688 Thorium 230	Method Blank -0.2	pCi/L							05/29/08 15:00 U

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R102565		
Sample ID: LCS-R102565	Laboratory Control Sample				Run: SUB-C102565		06/05/08 15:00		
Thorium 230	6.70	pCi/L	0.20	96	70	130			
Sample ID: R08050229-002H	Sample Matrix Spike				Run: SUB-C102565		06/05/08 15:00		
Thorium 230	16.6	pCi/L	0.20	103	70	130			
Sample ID: R08050229-002H	Sample Matrix Spike Duplicate				Run: SUB-C102565		06/05/08 15:00		
Thorium 230	14.3	pCi/L	0.20	89	70	130	15	30	
Sample ID: MB-R102565	Method Blank				Run: SUB-C102565		06/05/08 15:00		
Thorium 230	ND	pCi/L							U
Method: E909.0M							Batch: C_R104902		
Sample ID: C08050913-003IMS	Sample Matrix Spike				Run: SUB-C104902		07/03/08 09:50		
Lead 210	1200	pCi/L		105	70	130			
Sample ID: C08050913-003IMSD	Sample Matrix Spike Duplicate				Run: SUB-C104902		07/03/08 09:50		
Lead 210	1000	pCi/L		89	70	130	17	30	
Sample ID: MB-R104902	Method Blank				Run: SUB-C104902		07/03/08 09:50		
Lead 210	1	pCi/L							U
Sample ID: LCS-R104902	Laboratory Control Sample				Run: SUB-C104902		07/03/08 09:50		
Lead 210	61	pCi/L		101	70	130			
Method: E909.0M							Batch: C_R105446		
Sample ID: C08050919-002HMS	Sample Matrix Spike				Run: SUB-C105446		06/25/08 11:25		
Lead 210	550	pCi/L		92	70	130			
Sample ID: C08050919-002HMSD	Sample Matrix Spike Duplicate				Run: SUB-C105446		06/25/08 11:25		
Lead 210	420	pCi/L		71	70	130	26	30	
Sample ID: R08050321-002H	Sample Duplicate				Run: SUB-C105446		06/25/08 11:25		
Lead 210	80	pCi/L					25	30	
Sample ID: MB-R105446	Method Blank				Run: SUB-C105446		06/25/08 11:25		
Lead 210	ND	pCi/L							U
Sample ID: LCS-R105446	Laboratory Control Sample				Run: SUB-C105446		06/25/08 11:25		
Lead 210	140	pCi/L		115	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/14/08
 Work Order: R08050229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R102444		
Sample ID: C08050737-001HMS	Sample Matrix Spike				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	51	pCi/L	1.0	112	70	130			
Sample ID: C08050737-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	48	pCi/L	1.0	107	70	130	5.0	30	
Sample ID: LCS-R102444	Laboratory Control Sample				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	58	pCi/L	1.0	133	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, and the RPD for the MS MSD pair are acceptable the batch is approved.									
Sample ID: MB-R102444	Method Blank				Run: SUB-C102444			06/03/08 17:45	
Polonium 210	-0.1	pCi/L							U
Method: RMO-3008							Batch: C_R103071		
Sample ID: R08050321-005I	Sample Matrix Spike				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	42	pCi/L	1.0	99	70	130			
Sample ID: R08050321-005I	Sample Matrix Spike Duplicate				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	52	pCi/L	1.0	124	70	130	21	30	
Sample ID: LCS-R103071	Laboratory Control Sample				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	110	pCi/L	1.0	121	70	130			
Sample ID: MB-R103071	Method Blank				Run: SUB-C103071			06/19/08 12:00	
Polonium 210	0.5	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESpec Report Mail Address: RESpec Invoice Address:		Project Name, PWS, Permit, Etc. River Tech Dewey Burdick Contact Name: Cory Foreman Phone/Fax: cory.foreman@respec.com Invoice Contact & Phone:		Sample Origin State: SD EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/> Sampler: (Please Print) Eric Lentz	
Special Report/Formats - EI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		ANALYSIS REQUESTED As per scope	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 DewBurd GW 681 5/18/08 11:18 W 2 DewBurd GW 679 5/18/08 15:00 W		SEE ATTACHED Normal Turnaround (TAT)		PURCHASE ORDER: _____ QUOTE/BOTTLE ORDER: _____	
Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: Sat 3 Dewey Burdick Sat 10 Alvarado		RUSH Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:		Shipped by: Cooler Dry: Receipt Temp: 12.8 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal: Y N Intact: Y N Signature: Y N Match: Y N	
Signature: Eric Lentz Date/Time: 5/19/08 0600		Signature: Mark Ninkate Date/Time: 5/19/08 0600		Signature: Steve H. Land Date/Time: 5-19-08 12:00	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This service as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

July 30, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08050251 Quote ID: R286

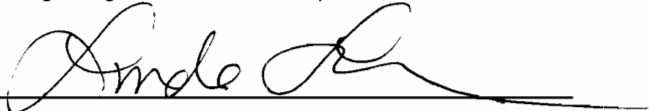
Project Name: Edgemont

Energy Laboratories Inc. received the following 3 samples from RESPEC Inc on 5/20/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050251-001	DewBurd GW631	05/19/08 11:06	05/20/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08050251-002	DewBurd GW13	05/19/08 12:20	05/20/08	Aqueous	Same As Above
R08050251-003	DewBurd GW4002	05/19/08 13:00	05/20/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050251-001
 Client Sample ID: DewBurd GW631

Report Date: 07/30/08
 Collection Date: 05/19/08 11:06
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	164	mg/L		5		1	A2320 B	05/22/08 09:44/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/22/08 09:44/mb
Bicarbonate as HCO3	200	mg/L		5		1	A2320 B	05/22/08 09:44/mb
Calcium	375	mg/L		0.5		2	E200.7	06/04/08 18:19/eli-c
Chloride	10	mg/L		1		1	E300.0	05/20/08 16:30/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/20/08 16:30/jmh
Magnesium	110	mg/L		0.5		2	E200.7	06/04/08 18:19/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/21/08 17:42/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/20/08 16:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/20/08 16:30/jmh
Potassium	16.3	mg/L		0.5		2	E200.7	06/04/08 18:19/eli-c
Silica	3.5	mg/L		0.5		2	E200.7	06/04/08 18:19/eli-c
Sodium	107	mg/L	D	2		2	E200.7	06/04/08 18:19/eli-c
Sulfate	1250	mg/L	D	3		50	E300.0	05/20/08 16:14/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2530	umhos/cm		5.0		1	A2510 B	05/23/08 16:05/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B	05/23/08 00:00/kh
pH	7.54	s.u.		0.01		1	A4500-H B	05/23/08 14:45/kh
Sodium Adsorption Ratio (SAR)	1.2	unitless		0.10		1	Calculation	07/29/08 15:22/ADM
Solids, Total Dissolved TDS @ 180 C	2000	mg/L		5		1	A2540 C	05/20/08 12:36/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/04/08 18:19/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/04/08 15:39/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/04/08 18:19/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	06/04/08 18:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/04/08 15:39/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/04/08 18:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/04/08 15:39/eli-c
Iron	0.39	mg/L		0.03		2	E200.7	06/04/08 18:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/04/08 15:39/eli-c
Manganese	0.33	mg/L		0.01		2	E200.7	06/04/08 18:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/04/08 15:39/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/04/08 18:19/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/04/08 18:19/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	06/03/08 15:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/04/08 15:39/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050251-001
 Client Sample ID: DewBurd GW631

Report Date: 07/30/08
 Collection Date: 05/19/08 11:06
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 06/04/08 15:39/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8 06/04/08 15:39/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 06/04/08 18:19/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 06/04/08 18:19/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 06/07/08 21:41/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 06/03/08 11:18/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	60.7	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Alpha precision (±)	7.9	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Alpha MDC	6.5	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Beta	26.2	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Beta precision (±)	4.4	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Gross Beta MDC	6.6	pCi/L				1	E900.0 06/11/08 08:06/eli-c
Lead 210	0.5	pCi/L	U			1	E909.0M 06/27/08 08:45/eli-c
Lead 210 MDC	16.0	pCi/L				1	E909.0M 06/27/08 08:45/eli-c
Lead 210 precision (±)	9.6	pCi/L				1	E909.0M 06/27/08 08:45/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008 06/03/08 17:45/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008 06/03/08 17:45/eli-c
Radium 226	22.1	pCi/L				1	E903.0 06/08/08 09:46/eli-c
Radium 226 precision (±)	1.0	pCi/L				1	E903.0 06/08/08 09:46/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0 06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 06/04/08 10:00/eli-c
Gross Gamma	130	pCi/L		20		1	E901.1 05/28/08 05:30/eli-c
Gross Gamma precision (±)	27	pCi/L				1	E901.1 05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1.4	pCi/L	U			1	E909.0M 07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M 07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M 07/03/08 09:50/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008 06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008 06/19/08 12:00/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0 06/03/08 08:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050251-001
 Client Sample ID: DewBurd GW631

Report Date: 07/30/08
 Collection Date: 05/19/08 11:06
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/03/08 08:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	4430	pCi/L		100			1	D5072-92	05/23/08 07:37/eli-c
Radon 222 precision (±)	112	pCi/L					1	D5072-92	05/23/08 07:37/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/06/08 17:08/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	06/06/08 17:08/eli-c
Barium	ND	mg/L		0.1			2	E200.7	05/27/08 21:15/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 14:38/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	05/27/08 21:15/eli-c
Cadmium	ND	mg/L		0.001			1	E200.8	06/06/08 17:08/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	05/27/08 21:15/eli-c
Copper	ND	mg/L		0.01			2	E200.7	05/27/08 21:15/eli-c
Iron	0.98	mg/L		0.03			2	E200.7	05/27/08 21:15/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/06/08 17:08/eli-c
Manganese	0.32	mg/L		0.01			2	E200.7	05/27/08 21:15/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/04/08 19:47/eli-b
Molybdenum	ND	mg/L		0.01			1	E200.8	06/06/08 17:08/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	05/27/08 21:15/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/06/08 17:08/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/06/08 17:08/eli-c
Strontium	6.8	mg/L		0.1			2	E200.7	05/27/08 21:15/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/06/08 17:08/eli-c
Uranium	0.0028	mg/L		0.0003			1	E200.8	06/06/08 17:08/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	05/27/08 21:15/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.08	%					1	A1030 E	07/29/08 00:00/jmh
Anions	29.7	meq/L					1	A1030 E	07/29/08 00:00/jmh
Cations	32.8	meq/L					1	A1030 E	07/29/08 00:00/jmh
Solids, Total Dissolved Calculated	1980	mg/L					1	A1030 E	07/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02						1	A1030 E	07/29/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050251-002
 Client Sample ID: DewBurd GW13

Report Date: 07/30/08
 Collection Date: 05/19/08 12:20
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	156	mg/L		5		1	A2320 B	05/22/08 09:59/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/22/08 09:59/mb
Bicarbonate as HCO3	190	mg/L		5		1	A2320 B	05/22/08 09:59/mb
Calcium	72.4	mg/L		0.5		2	E200.7	06/04/08 18:35/eli-c
Chloride	10	mg/L		1		1	E300.0	05/20/08 18:09/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/20/08 18:09/jmh
Magnesium	29.5	mg/L		0.5		2	E200.7	06/04/08 18:35/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/21/08 17:43/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/20/08 18:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/20/08 18:09/jmh
Potassium	11.5	mg/L		0.5		2	E200.7	06/04/08 18:35/eli-c
Silica	3.6	mg/L		0.5		2	E200.7	06/04/08 18:35/eli-c
Sodium	188	mg/L	D	2		2	E200.7	06/04/08 18:35/eli-c
Sulfate	442	mg/L	D	3		50	E300.0	05/20/08 17:19/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1420	umhos/cm		5.0		1	A2510 B	05/23/08 16:08/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	05/23/08 00:00/kh
pH	7.96	s.u.		0.01		1	A4500-H B	05/23/08 14:46/kh
Sodium Adsorption Ratio (SAR)	4.7	unitless		0.10		1	Calculation	07/29/08 15:22/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5		1	A2540 C	05/20/08 12:36/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/04/08 18:35/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/04/08 15:46/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/04/08 18:35/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/04/08 18:35/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/04/08 15:46/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/04/08 18:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/04/08 15:46/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/04/08 18:35/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/04/08 15:46/eli-c
Manganese	0.20	mg/L		0.01		2	E200.7	06/04/08 18:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/04/08 15:46/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/04/08 18:35/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/04/08 18:35/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	06/03/08 15:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/04/08 15:46/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050251-002
Client Sample ID: DewBurd GW13

Report Date: 07/30/08
Collection Date: 05/19/08 12:20
Date Received: 05/20/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/04/08 15:46/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/04/08 15:46/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/04/08 18:35/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	06/04/08 18:35/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 21:46/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:20/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4.2	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha precision (±)	2.2	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha MDC	3.0	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta	10.3	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Lead 210	4.1	pCi/L	U			1	E909.0M	06/27/08 08:45/eli-c
Lead 210 MDC	16.0	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Lead 210 precision (±)	9.6	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Polonium 210	-0.6	pCi/L	U	1.0		1	RMO-3008	06/03/08 17:45/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008	06/03/08 17:45/eli-c
Radium 226	1.6	pCi/L				1	E903.0	06/08/08 15:48/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/08/08 15:48/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.2	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	0.01	pCi/L	U			1	E903.0	06/03/08 08:59/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050251-002
 Client Sample ID: DewBurd GW13

Report Date: 07/30/08
 Collection Date: 05/19/08 12:20
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/03/08 08:59/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	06/03/08 08:59/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	412	pCi/L		100		1	D5072-92	05/23/08 07:37/eli-c
Radon 222 precision (±)	70.5	pCi/L				1	D5072-92	05/23/08 07:37/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 17:15/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	06/06/08 17:15/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/27/08 21:23/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	06/09/08 14:45/eli-c
Boron	ND	mg/L		0.1		2	E200.7	05/27/08 21:23/eli-c
Cadmium	ND	mg/L		0.001		1	E200.8	06/06/08 17:15/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/27/08 21:23/eli-c
Copper	ND	mg/L		0.01		2	E200.7	05/27/08 21:23/eli-c
Iron	4.56	mg/L		0.03		2	E200.7	05/27/08 21:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 17:15/eli-c
Manganese	0.20	mg/L		0.01		2	E200.7	05/27/08 21:23/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 19:50/eli-b
Molybdenum	ND	mg/L		0.01		1	E200.8	06/06/08 17:15/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/27/08 21:23/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 17:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 17:15/eli-c
Strontium	1.7	mg/L		0.1		2	E200.7	05/27/08 21:23/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 17:15/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/06/08 17:15/eli-c
Zinc	0.04	mg/L		0.01		2	E200.7	05/27/08 21:23/eli-c
DATA QUALITY								
A/C Balance (± 5)	6.97	%				1	A1030 E	07/29/08 00:00/jmh
Anions	12.6	meq/L				1	A1030 E	07/29/08 00:00/jmh
Cations	14.5	meq/L				1	A1030 E	07/29/08 00:00/jmh
Solids, Total Dissolved Calculated	857	mg/L				1	A1030 E	07/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02					1	A1030 E	07/29/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050251-003
 Client Sample ID: DewBurd GW4002

Report Date: 07/30/08
 Collection Date: 05/19/08 13:00
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	144	mg/L		5		1	A2320 B	05/22/08 10:02/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/22/08 10:02/mb
Bicarbonate as HCO3	176	mg/L		5		1	A2320 B	05/22/08 10:02/mb
Calcium	46.6	mg/L		0.5		2	E200.7	06/04/08 18:48/eli-c
Chloride	6	mg/L		1		1	E300.0	05/20/08 18:41/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/20/08 18:41/jmh
Magnesium	15.8	mg/L		0.5		2	E200.7	06/04/08 18:48/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/21/08 17:44/jmh
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	05/20/08 18:41/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/20/08 18:41/jmh
Potassium	7.1	mg/L		0.5		2	E200.7	06/04/08 18:48/eli-c
Silica	3.8	mg/L		0.5		2	E200.7	06/04/08 18:48/eli-c
Sodium	211	mg/L	D	2		2	E200.7	06/04/08 18:48/eli-c
Sulfate	450	mg/L	D	3		50	E300.0	05/20/08 18:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1340	umhos/cm		5.0		1	A2510 B	05/23/08 16:10/tb
Oxidation-Reduction Potential	250	mV				1	A2580 B	05/23/08 00:00/kh
pH	8.02	s.u.		0.01		1	A4500-H B	05/23/08 14:48/kh
Sodium Adsorption Ratio (SAR)	6.8	unitless		0.10		1	Calculation	07/29/08 15:22/ADM
Solids, Total Dissolved TDS @ 180 C	790	mg/L		5		1	A2540 C	05/20/08 12:36/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/04/08 18:48/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/04/08 15:53/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/04/08 18:48/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/04/08 18:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/04/08 15:53/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/04/08 18:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/04/08 15:53/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/04/08 18:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/04/08 15:53/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7	06/04/08 18:48/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/04/08 15:53/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/04/08 18:48/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/04/08 18:48/eli-c
Selenium	ND	mg/L		0.005		1	A3114 B	06/03/08 15:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/04/08 15:53/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050251-003
 Client Sample ID: DewBurd GW4002

Report Date: 07/30/08
 Collection Date: 05/19/08 13:00
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/04/08 15:53/eli-c
Uranium	0.0023	mg/L		0.0003		1	E200.8	06/04/08 15:53/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/04/08 18:48/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/04/08 18:48/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 21:51/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:22/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	127	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha precision (±)	6.5	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Alpha MDC	2.6	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta	30.1	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Gross Beta MDC	2.9	pCi/L				1	E900.0	06/11/08 08:06/eli-c
Lead 210	-2.6	pCi/L	U			1	E909.0M	06/27/08 08:45/eli-c
Lead 210 MDC	16.0	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Lead 210 precision (±)	9.5	pCi/L				1	E909.0M	06/27/08 08:45/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/03/08 17:45/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	06/03/08 17:45/eli-c
Radium 226	52.3	pCi/L				1	E903.0	06/08/08 16:38/eli-c
Radium 226 precision (±)	1.9	pCi/L				1	E903.0	06/08/08 16:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	210	pCi/L		20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	30	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.4	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	8.4	pCi/L				1	E903.0	06/03/08 08:59/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050251-003
 Client Sample ID: DewBurd GW4002

Report Date: 07/30/08
 Collection Date: 05/19/08 13:00
 Date Received: 05/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.9	pCi/L				1	E903.0	06/03/08 08:59/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	06/03/08 08:59/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	8780	pCi/L		100		1	D5072-92	05/23/08 07:37/eli-c
Radon 222 precision (±)	143	pCi/L				1	D5072-92	05/23/08 07:37/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 17:21/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	06/06/08 17:21/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/27/08 21:27/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	06/09/08 14:52/eli-c
Boron	ND	mg/L		0.1		2	E200.7	05/27/08 21:27/eli-c
Cadmium	ND	mg/L		0.001		1	E200.8	06/06/08 17:21/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	05/27/08 21:27/eli-c
Copper	ND	mg/L		0.01		2	E200.7	05/27/08 21:27/eli-c
Iron	2.29	mg/L		0.03		2	E200.7	05/27/08 21:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 17:21/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7	05/27/08 21:27/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 19:52/eli-b
Molybdenum	ND	mg/L		0.01		1	E200.8	06/06/08 17:21/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	05/27/08 21:27/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 17:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 17:21/eli-c
Strontium	0.9	mg/L		0.1		2	E200.7	05/27/08 21:27/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 17:21/eli-c
Uranium	0.0025	mg/L		0.0003		1	E200.8	06/06/08 17:21/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/27/08 21:27/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.11	%				1	A1030 E	07/29/08 00:00/jmh
Anions	12.4	meq/L				1	A1030 E	07/29/08 00:00/jmh
Cations	13.0	meq/L				1	A1030 E	07/29/08 00:00/jmh
Solids, Total Dissolved Calculated	834	mg/L				1	A1030 E	07/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940					1	A1030 E	07/29/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration
 Page 9 of 9



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080522A-ALK-SEL-W							
Sample ID: LCS1_080522A Alkalinity, Total as CaCO3	Laboratory Control Sample 944	mg/L	5.0	94	90	110			Run: PH_COND1-R_080522A 05/22/08 09:22
Sample ID: MBLK1_080522A Alkalinity, Total as CaCO3	Method Blank 4	mg/L	3						Run: PH_COND1-R_080522A 05/22/08 09:26
Sample ID: R08050266-003AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 292	mg/L	5.0	115	80	120			Run: PH_COND1-R_080522A 05/22/08 10:29
Sample ID: R08050266-003AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 290	mg/L	5.0	113	80	120	0.7	10	Run: PH_COND1-R_080522A 05/22/08 10:23
Method: A2510 B		Batch: 080523_1_COND-PROBE-W							
Sample ID: LCS_COND-1_080523 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:55
Sample ID: LCS1-1_080523 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:56
Sample ID: LCS2-1_080523 Conductivity @ 25 C	Laboratory Control Sample 5000	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080523B 05/23/08 15:57
Sample ID: R08050321-001ADUP Conductivity @ 25 C	Sample Duplicate 1460	umhos/cm	5.0				2.8	10	Run: PH_COND2-R_080523B 05/23/08 16:24
Method: A2540 C		Batch: 080520A-SLDS-TDS-W							
Sample ID: LCS1_080520A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	103	90	110			Run: BAL-4-R_080520A 05/20/08 09:30
Sample ID: MBLK1_080520A Solids, Total Dissolved TDS @ 180 C	Method Blank 4	mg/L	3						Run: BAL-4-R_080520A 05/20/08 09:32
Sample ID: R08040168-001ADUP Solids, Total Dissolved TDS @ 180 C	Sample Duplicate 440	mg/L	5.0				1.8	20	Run: BAL-4-R_080520A 05/20/08 09:33
Sample ID: R08050229-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1100	mg/L	5.0	97	80	120			Run: BAL-4-R_080520A 05/20/08 10:05
Sample ID: R08050229-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1100	mg/L	5.0	101	80	120	0.7	10	Run: BAL-4-R_080520A 05/20/08 10:07

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080603A		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	6E-05			Run: SUB-C102059			06/03/08 11:03
Sample ID: 288-81-1 Selenium-IV	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			06/03/08 11:05
Sample ID: C08050602-001EMS Selenium-IV	Sample Matrix Spike 0.051	mg/L	0.0010	101	85	115			06/03/08 11:14
Sample ID: C08050602-001EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.051	mg/L	0.0010	103	85	115	1.1	10	06/03/08 11:16
Method: A3114 B							Batch: C_SE3114-080603B		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05			Run: SUB-C102093			06/03/08 15:00
Sample ID: 288-81-1 Selenium	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			06/03/08 15:02
Sample ID: C08050602-001EMS Selenium	Sample Matrix Spike 0.049	mg/L	0.0010	98	85	115			06/03/08 15:06
Sample ID: C08050602-001EMSD Selenium	Sample Matrix Spike Duplicate 0.050	mg/L	0.0010	99	85	115	1.3	10	06/03/08 15:08
Method: A4500-H B							Batch: 080523_1_PH-W		
Sample ID: LCS_pH-1_080523 pH	Laboratory Control Sample 6.92	s.u.	0.010	101	98.55	101.45			05/23/08 14:21

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-05-21_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080521A		05/21/08 14:30	
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	109	90	110			
						Run: TECHAA2-R_080521A		05/21/08 14:31	
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	104	90	110			
						Run: TECHAA2-R_080521A		05/21/08 14:32	
Sample ID: R08050241-001CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	95	80	120			
						Run: TECHAA2-R_080521A		05/21/08 17:37	
Sample ID: R08050266-001CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	96	80	120			
						Run: TECHAA2-R_080521A		05/21/08 17:49	
Sample ID: R08050266-001CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.25	mg/L	0.10	101	80	120	4.9		
						Run: TECHAA2-R_080521A		05/21/08 17:50	10
Method: D5072-92							Batch: C_R101703		
Sample ID: C08050968-002IDUP Radon 222	Sample Duplicate 141	pCi/L	100				12		
						Run: SUB-C101703		05/23/08 07:37	30
Sample ID: MB-R101703 Radon 222	Method Blank 20	pCi/L							
						Run: SUB-C101703		05/23/08 07:37	U
Sample ID: LCS-R101703 Radon 222	Laboratory Control Sample 301	pCi/L	100	92	70	130			
						Run: SUB-C101703		05/23/08 07:37	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18674		
Sample ID: MB-18674	Method Blank			Run: SUB-C101828			05/27/08 21:06		
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.007	mg/L	0.001						
Sample ID: LCS3-18674	Laboratory Control Sample			Run: SUB-C101828			05/27/08 21:11		
Barium	0.53	mg/L	0.10	106	85	115			
Boron	0.51	mg/L	0.10	102	85	115			
Chromium	0.52	mg/L	0.050	104	85	115			
Copper	0.52	mg/L	0.010	104	85	115			
Iron	5.5	mg/L	0.030	111	85	115			
Manganese	2.6	mg/L	0.010	105	85	115			
Nickel	0.52	mg/L	0.050	104	85	115			
Strontium	0.54	mg/L	0.10	108	85	115			
Zinc	0.52	mg/L	0.010	103	85	115			
Sample ID: C08050971-007B MS3	Sample Matrix Spike			Run: SUB-C101828			05/27/08 23:08		
Barium	0.58	mg/L	0.10	105	70	130			
Boron	0.60	mg/L	0.10	106	70	130			
Chromium	0.54	mg/L	0.050	107	70	130			
Copper	0.53	mg/L	0.010	106	70	130			
Iron	5.6	mg/L	0.030	111	70	130			
Manganese	2.7	mg/L	0.010	106	70	130			
Nickel	0.54	mg/L	0.050	107	70	130			
Strontium	1.3	mg/L	0.10	101	70	130			
Zinc	0.53	mg/L	0.010	105	70	130			
Sample ID: C08050971-007B MSD3	Sample Matrix Spike Duplicate			Run: SUB-C101828			05/27/08 23:12		
Barium	0.58	mg/L	0.10	104	70	130	1.4	20	
Boron	0.59	mg/L	0.10	104	70	130	1.5	20	
Chromium	0.53	mg/L	0.050	106	70	130	1.3	20	
Copper	0.52	mg/L	0.010	104	70	130	1.9	20	
Iron	5.6	mg/L	0.030	111	70	130	0.2	20	
Manganese	2.6	mg/L	0.010	106	70	130	0.6	20	
Nickel	0.53	mg/L	0.050	106	70	130	1.1	20	
Strontium	1.3	mg/L	0.10	102	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18674
Sample ID: C08050971-007B MSD3	Sample Matrix Spike Duplicate								Run: SUB-C101828 05/27/08 23:12
Zinc	0.52	mg/L	0.010	104	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_R102193			
Sample ID: MB-080604A	Method Blank		Run: SUB-C102193				06/04/08 15:38			
Silica	ND	mg/L	0.02							
Aluminum	ND	mg/L	0.004							
Barium	ND	mg/L	0.006							
Boron	0.03	mg/L	0.008							
Calcium	ND	mg/L	0.1							
Chromium	0.02	mg/L	0.002							
Iron	0.1	mg/L	0.005							
Magnesium	ND	mg/L	0.04							
Manganese	0.002	mg/L	0.0003							
Molybdenum	0.003	mg/L	0.003							
Nickel	ND	mg/L	0.004							
Potassium	ND	mg/L	0.02							
Sodium	ND	mg/L	0.8							
Vanadium	0.02	mg/L	0.003							
Zinc	ND	mg/L	0.002							
Sample ID: LFB-080604A	Laboratory Fortified Blank		Run: SUB-C102193				06/04/08 15:42			
Silica	0.38	mg/L	0.10	94	85	125				
Aluminum	0.93	mg/L	0.10	93	85	125				
Barium	1.0	mg/L	0.10	103	85	125				
Boron	1.1	mg/L	0.10	103	85	125				
Calcium	53	mg/L	0.50	106	85	125				
Chromium	1.0	mg/L	0.050	102	85	125				
Iron	1.1	mg/L	0.030	99	85	125				
Magnesium	53	mg/L	0.50	107	85	125				
Manganese	1.0	mg/L	0.010	104	85	125				
Molybdenum	1.0	mg/L	0.10	100	85	125				
Nickel	1.0	mg/L	0.050	103	85	125				
Potassium	49	mg/L	0.50	98	85	125				
Sodium	49	mg/L	0.77	98	85	125				
Vanadium	1.1	mg/L	0.10	109	85	125				
Zinc	1.0	mg/L	0.010	104	85	125				
Sample ID: R08050251-002C	Sample Matrix Spike		Run: SUB-C102193				06/04/08 18:39			
Aluminum	2.09	mg/L	0.10	103	70	130				
Barium	2.04	mg/L	0.10	99	70	130				
Boron	2.14	mg/L	0.10	102	70	130				
Chromium	2.10	mg/L	0.050	103	70	130				
Iron	2.16	mg/L	0.030	105	70	130				
Manganese	2.23	mg/L	0.010	99	70	130				
Molybdenum	2.01	mg/L	0.10	98	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102193		
Sample ID: R08050251-002C	Sample Matrix Spike			Run: SUB-C102193			06/04/08 18:39		
Nickel	2.08	mg/L	0.050	102	70	130			
Vanadium	2.08	mg/L	0.10	102	70	130			
Zinc	2.10	mg/L	0.010	103	70	130			
Calcium	177	mg/L	1.0	103	70	130			
Magnesium	135	mg/L	1.0	103	70	130			
Potassium	102	mg/L	1.0	89	70	130			
Silica	4.17	mg/L	0.10		70	130			A
Sodium	286	mg/L	1.5	97	70	130			
Sample ID: R08050251-002C	Sample Matrix Spike Duplicate			Run: SUB-C102193			06/04/08 18:43		
Aluminum	2.03	mg/L	0.10	99	70	130	3.1	20	
Barium	2.11	mg/L	0.10	103	70	130	3.6	20	
Boron	2.16	mg/L	0.10	104	70	130	1.3	20	
Chromium	2.13	mg/L	0.050	104	70	130	1.6	20	
Iron	2.21	mg/L	0.030	107	70	130	2.2	20	
Manganese	2.28	mg/L	0.010	102	70	130	2.4	20	
Molybdenum	2.08	mg/L	0.10	102	70	130	3.6	20	
Nickel	2.09	mg/L	0.050	103	70	130	0.4	20	
Vanadium	2.14	mg/L	0.10	105	70	130	2.8	20	
Zinc	2.13	mg/L	0.010	104	70	130	1.3	20	
Calcium	180	mg/L	1.0	105	70	130	1.1	20	
Magnesium	136	mg/L	1.0	105	70	130	1.2	20	
Potassium	102	mg/L	1.0	89	70	130	0.4	20	
Silica	4.21	mg/L	0.10		70	130	1.1	20	A
Sodium	282	mg/L	1.5	92	70	130	1.5	20	
Method: E200.8							Batch: C_18688		
Sample ID: C08050953-001FMS	Sample Matrix Spike			Run: SUB-C102315			06/07/08 18:31		
Uranium	0.0132	mg/L	0.00030	97	70	130			
Sample ID: C08050953-001FMSD	Sample Matrix Spike Duplicate			Run: SUB-C102315			06/07/08 18:36		
Uranium	0.0133	mg/L	0.00030	98	70	130	0.8	20	
Sample ID: C08051031-005IMS4	Post Digestion Spike			Run: SUB-C102315			06/07/08 22:50		
Uranium	0.0128	mg/L	0.00030	97	70	130			
Sample ID: C08051031-005IMS4D	Post Digestion Spike Duplicate			Run: SUB-C102315			06/07/08 22:55		
Uranium	0.0129	mg/L	0.00030	98	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18768		
Sample ID: MB-18768	Method Blank		Run: SUB-C102298			06/06/08 16:00			
Antimony	ND	mg/L	0.0002						
Arsenic	0.0007	mg/L	5E-05						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	7E-05						
Selenium	0.0003	mg/L	0.0002						
Silver	0.0001	mg/L	5E-05						
Thallium	0.0001	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18768	Laboratory Control Sample		Run: SUB-C102298			06/06/08 16:07			
Antimony	0.580	mg/L	0.050	116	85	115			
Arsenic	0.562	mg/L	0.0010	112	85	115			
Cadmium	0.275	mg/L	0.010	110	85	115			
Lead	0.568	mg/L	0.050	114	85	115			
Molybdenum	0.544	mg/L	0.10	109	85	115			
Selenium	0.569	mg/L	0.0020	114	85	115			
Silver	0.0480	mg/L	0.010	96	85	115			
Thallium	0.564	mg/L	0.10	113	85	115			
Sample ID: C08051073-001MMS3	Sample Matrix Spike		Run: SUB-C102298			06/06/08 18:56			
Antimony	0.540	mg/L	0.050	108	70	130			
Arsenic	0.536	mg/L	0.0010	107	70	130			
Cadmium	0.263	mg/L	0.010	105	70	130			
Lead	0.529	mg/L	0.050	105	70	130			
Molybdenum	0.531	mg/L	0.10	103	70	130			
Selenium	0.527	mg/L	0.0020	104	70	130			
Silver	0.0433	mg/L	0.010	87	70	130			
Thallium	0.519	mg/L	0.10	104	70	130			
Uranium	0.557	mg/L	0.00032	110	70	130			
Sample ID: C08051073-001MMSD3	Sample Matrix Spike Duplicate		Run: SUB-C102298			06/06/08 19:23			
Antimony	0.539	mg/L	0.050	108	70	130	0.2	20	
Arsenic	0.535	mg/L	0.0010	106	70	130	0.2	20	
Cadmium	0.264	mg/L	0.010	106	70	130	0.4	20	
Lead	0.529	mg/L	0.050	105	70	130	0.1	20	
Molybdenum	0.529	mg/L	0.10	103	70	130	0.4	20	
Selenium	0.534	mg/L	0.0020	105	70	130	1.3	20	
Silver	0.0451	mg/L	0.010	90	70	130	4.0	20	
Thallium	0.522	mg/L	0.10	104	70	130	0.5	20	
Uranium	0.572	mg/L	0.00032	113	70	130	2.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18768
Sample ID: LCS3-18768	Laboratory Control Sample								06/07/08 12:11
									Run: SUB-C102315
Arsenic	0.519	mg/L	0.0010	104	85	115			
Lead	0.509	mg/L	0.050	102	85	115			
Molybdenum	0.504	mg/L	0.10	101	85	115			
Selenium	0.519	mg/L	0.0020	104	85	115			
Uranium	0.519	mg/L	0.00032	104	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102203		
Sample ID: LRB	Method Blank		Run: SUB-C102203			06/04/08 12:01			
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C102203			06/04/08 12:07			
Arsenic	0.0502	mg/L	0.0010	100	85	115			
Cadmium	0.0502	mg/L	0.0010	100	85	115			
Copper	0.0509	mg/L	0.0010	102	85	115			
Lead	0.0503	mg/L	0.0010	101	85	115			
Mercury	0.00499	mg/L	0.0010	100	85	115			
Silver	0.0200	mg/L	0.0010	100	85	115			
Thorium 232	0.0495	mg/L	0.0010	99	85	115			
Uranium	0.0501	mg/L	0.00030	100	85	115			
Sample ID: C08050903-007GMS4	Post Digestion Spike		Run: SUB-C102203			06/04/08 15:26			
Arsenic	0.0518	mg/L	0.0010	101	70	130			
Cadmium	0.0475	mg/L	0.010	95	70	130			
Copper	0.0482	mg/L	0.010	95	70	130			
Lead	0.0498	mg/L	0.050	100	70	130			
Mercury	0.00459	mg/L	0.0010	92	70	130			
Silver	0.00192	mg/L	0.010	10	70	130			S
Thorium 232	0.0526	mg/L	0.0010	105	70	130			
Uranium	0.170	mg/L	0.00030	107	70	130			
Sample ID: C08050903-007GMSD4	Post Digestion Spike Duplicate		Run: SUB-C102203			06/04/08 15:32			
Arsenic	0.0525	mg/L	0.0010	102	70	130	1.3	20	
Cadmium	0.0480	mg/L	0.010	96	70	130	1.0	20	
Copper	0.0485	mg/L	0.010	95	70	130	0.7	20	
Lead	0.0507	mg/L	0.050	101	70	130	1.7	20	
Mercury	0.00480	mg/L	0.0010	96	70	130	4.6	20	
Silver	0.000603	mg/L	0.010	3	70	130	0.0	20	S
Thorium 232	0.0539	mg/L	0.0010	107	70	130	2.5	20	
Uranium	0.172	mg/L	0.00030	110	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_32786		
Sample ID: MB-32786	Method Blank					Run: SUB-C102258			06/04/08 17:57
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32786	Laboratory Fortified Blank					Run: SUB-C102258			06/04/08 18:05
Mercury	0.0019	mg/L	0.0010	91	85	115			
Sample ID: B08052561-001DMS	Sample Matrix Spike					Run: SUB-C102258			06/04/08 18:14
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: B08052561-001DMSD	Sample Matrix Spike Duplicate					Run: SUB-C102258			06/04/08 18:16
Mercury	0.0021	mg/L	0.0010	100	70	130	7.0	30	
Sample ID: B08052499-002CMS	Sample Matrix Spike					Run: SUB-C102258			06/04/08 19:08
Mercury	0.0017	mg/L	0.0010	87	70	130			
Sample ID: B08052499-002CMSD	Sample Matrix Spike Duplicate					Run: SUB-C102258			06/04/08 19:11
Mercury	0.0016	mg/L	0.0010	79	70	130	9.1	30	
Method: E245.1							Analytical Run: SUB-C102258		
Sample ID: QCS	Initial Calibration Verification Standard								06/04/08 17:50
Mercury	0.0021	mg/L	0.0010	103	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34857		
Sample ID: LFB0805201727-3	Laboratory Fortified Blank			Run: DIONEX_080520A			05/20/08 13:29		
Chloride	4.71	mg/L	0.50	94	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: LFB0805201727-4	Laboratory Fortified Blank			Run: DIONEX_080520A			05/20/08 13:46		
Chloride	4.66	mg/L	0.50	93	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: R08050251-002AMS	Sample Matrix Spike			Run: DIONEX_080520A			05/20/08 17:36		
Chloride	252	mg/L	5.4	91	80	120			
Fluoride	94.6	mg/L	0.56	87	80	120			
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1110	mg/L	3.4	89	80	120			
Sample ID: R08050251-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080520A			05/20/08 17:52		
Chloride	244	mg/L	5.4	87	80	120	3.5	10	
Fluoride	91.4	mg/L	0.56	84	80	120	3.5	10	
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120	2.8	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	3.3	10	
Sulfate	1100	mg/L	3.4	87	80	120	1.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0457		
Sample ID: MB-GrAB-0457	Method Blank								
Gross Alpha	0.05	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: Th230-GrAB-0457	Laboratory Control Sample								
Gross Alpha	140	pCi/L	100		70	130			06/11/08 08:06
Sample ID: Cs137-GrAB-0457	Laboratory Control Sample								
Gross Beta	87	pCi/L	94		70	130			06/11/08 08:06
Sample ID: C08050953-001EMS	Sample Matrix Spike								
Gross Alpha	160	pCi/L	77		70	130			06/11/08 08:06
Sample ID: C08050953-001EMSD	Sample Matrix Spike Duplicate								
Gross Alpha	150	pCi/L	75		70	130	1.7	17.5	06/11/08 08:06
Sample ID: C08050953-001EMS	Sample Matrix Spike								
Gross Beta	100	pCi/L	93		70	130			06/11/08 08:06
Sample ID: C08050953-001EMSD	Sample Matrix Spike Duplicate								
Gross Beta	99	pCi/L	91		70	130	2.5	15.6	06/11/08 08:06
Sample ID: C08050959-001EDUP	Sample Duplicate								
Gross Alpha	370	pCi/L					14	22.1	06/11/08 21:12
Gross Beta	160	pCi/L					41	27.5	R
- Duplicate RPD for Beta is outside of acceptance range. All other QC for the run is within limits. Batch is acceptable.									
Method: E901.1							Batch: C_R101877		
Sample ID: LCS-R101877	Laboratory Control Sample								
Cesium 137	1140	pCi/L	20	82	70	130			05/28/08 05:30
Sample ID: MB-R101877	Method Blank								
Gross Gamma	ND	pCi/L							U
Sample ID: C08050919-001HDUP	Sample Duplicate								
Gross Gamma	6600	pCi/L	20				0.1	30	05/28/08 05:30
Sample ID: C08051031-005HDUP	Sample Duplicate								
Gross Gamma	ND	pCi/L	20				0.0	30	05/28/08 05:30

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: C_18688									
Sample ID: R08050251-001I Radium 226	Sample Matrix Spike 77	pCi/L		98	70	130			06/03/08 08:59
Run: SUB-C102137									
Sample ID: R08050251-001I Radium 226	Sample Matrix Spike Duplicate 72	pCi/L		91	70	130	7.4	25.5	06/03/08 08:59
Run: SUB-C102137									
Sample ID: MB-18688 Radium 226	Method Blank -0.4	pCi/L							06/03/08 10:37 U
Run: SUB-C102137									
Sample ID: LCS-18688 Radium 226	Laboratory Control Sample 15	pCi/L		99	70	130			06/03/08 10:37
Run: SUB-C102137									
Method: E903.0 Batch: C_RA226-2833									
Sample ID: C08050998-001AMS Radium 226	Sample Matrix Spike 7.9	pCi/L		98	70	130			06/07/08 20:14
Run: SUB-C102378									
Sample ID: C08050998-001AMSD Radium 226	Sample Matrix Spike Duplicate 7.8	pCi/L		97	70	130	0.7	25	06/07/08 21:45
Run: SUB-C102378									
Sample ID: MB-RA226-2833 Radium 226	Method Blank 0.1	pCi/L							06/07/08 23:15 U
Run: SUB-C102378									
Sample ID: LCS-RA226-2833 Radium 226	Laboratory Control Sample 8.4	pCi/L		104	70	130			06/08/08 11:16
Run: SUB-C102378									
Method: E903.0 Batch: C_RA226-2834									
Sample ID: C08050917-001AMS Radium 226	Sample Matrix Spike 430	pCi/L		-30	70	130			06/08/08 16:51 S
Run: SUB-C102415									
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.									
Sample ID: C08050917-001AMSD Radium 226	Sample Matrix Spike Duplicate 430	pCi/L		53	70	130	1.5	17.2	06/08/08 16:58 S
Run: SUB-C102415									
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.									
Sample ID: MB-RA226-2834 Radium 226	Method Blank 0.06	pCi/L							06/09/08 13:54 U
Run: SUB-C102415									
Sample ID: LCS-RA226-2834 Radium 226	Laboratory Control Sample 7.4	pCi/L		93	70	130			06/09/08 15:24
Run: SUB-C102415									

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_18688		
Sample ID: C08051031-001IMS Thorium 230	Sample Matrix Spike 20.6	pCi/L	0.20	88	70	130			05/29/08 15:00
									Run: SUB-C102353
Sample ID: C08051031-001IMSD Thorium 230	Sample Matrix Spike Duplicate 22.8	pCi/L	0.20	102	70	130	10	30	05/29/08 15:00
									Run: SUB-C102353
Sample ID: LCS-18688 Thorium 230	Laboratory Control Sample 51.0	pCi/L	0.20	107	70	130			05/29/08 15:00
									Run: SUB-C102353
Sample ID: MB-18688 Thorium 230	Method Blank -0.2	pCi/L							05/29/08 15:00
									Run: SUB-C102353
Method: E907.0							Batch: C_R102575		
Sample ID: LCS-R102575 Thorium 230	Laboratory Control Sample 6.60	pCi/L	0.20	94	70	130			06/04/08 10:00
									Run: SUB-C102575
Sample ID: C08051031-004HMS Thorium 230	Sample Matrix Spike 15.5	pCi/L	0.20	96	70	130			06/04/08 10:00
									Run: SUB-C102575
Sample ID: C08051031-004HMSD Thorium 230	Sample Matrix Spike Duplicate 13.9	pCi/L	0.20	85	70	130	11	30	06/04/08 10:00
									Run: SUB-C102575
Sample ID: MB-R102575 Thorium 230	Method Blank ND	pCi/L							06/04/08 10:00
									Run: SUB-C102575
Method: E909.0M							Batch: C_R104386		
Sample ID: C08050730-004FMS Lead 210	Sample Matrix Spike 1000	pCi/L		172	70	130			06/27/08 08:45 S
									- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MSD are acceptable the batch is approved.
Sample ID: C08050730-004FMSD Lead 210	Sample Matrix Spike Duplicate 670	pCi/L		115	70	130	40	30	06/27/08 08:45 R
									Run: SUB-C104386
Sample ID: MB-R104386 Lead 210	Method Blank -2	pCi/L							06/27/08 08:45 U
									Run: SUB-C104386
Sample ID: LCS-R104386 Lead 210	Laboratory Control Sample 110	pCi/L		98	70	130			06/27/08 08:45
									Run: SUB-C104386

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050251

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R104902		
Sample ID: R08050251-003I	Sample Matrix Spike				Run: SUB-C104902				07/03/08 09:50
Lead 210	1200	pCi/L		105	70	130			
Sample ID: R08050251-003I	Sample Matrix Spike Duplicate				Run: SUB-C104902				07/03/08 09:50
Lead 210	1000	pCi/L		89	70	130	17	30	
Sample ID: MB-R104902	Method Blank				Run: SUB-C104902				07/03/08 09:50
Lead 210	1	pCi/L							U
Sample ID: LCS-R104902	Laboratory Control Sample				Run: SUB-C104902				07/03/08 09:50
Lead 210	61	pCi/L		101	70	130			
Method: RMO-3008							Batch: C_R102444		
Sample ID: C08050737-001HMS	Sample Matrix Spike				Run: SUB-C102444				06/03/08 17:45
Polonium 210	51	pCi/L	1.0	112	70	130			
Sample ID: C08050737-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C102444				06/03/08 17:45
Polonium 210	48	pCi/L	1.0	107	70	130	5.0	30	
Sample ID: LCS-R102444	Laboratory Control Sample				Run: SUB-C102444				06/03/08 17:45
Polonium 210	58	pCi/L	1.0	133	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, and the RPD for the MS MSD pair are acceptable the batch is approved.									
Sample ID: MB-R102444	Method Blank				Run: SUB-C102444				06/03/08 17:45
Polonium 210	-0.1	pCi/L							U
Method: RMO-3008							Batch: C_R103071		
Sample ID: C08051031-005IMS	Sample Matrix Spike				Run: SUB-C103071				06/19/08 12:00
Polonium 210	42	pCi/L	1.0	99	70	130			
Sample ID: C08051031-005IMSD	Sample Matrix Spike Duplicate				Run: SUB-C103071				06/19/08 12:00
Polonium 210	52	pCi/L	1.0	124	70	130	21	30	
Sample ID: LCS-R103071	Laboratory Control Sample				Run: SUB-C103071				06/19/08 12:00
Polonium 210	110	pCi/L	1.0	121	70	130			
Sample ID: MB-R103071	Method Blank				Run: SUB-C103071				06/19/08 12:00
Polonium 210	0.5	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: **RESPEC** Project Name: PWS, Permit, Etc.
 Report Mail Address: **RESPEC** Contact Name: **Power Tech Energy Products**
 Invoice Address: **RESPEC** Invoice Contact & Phone: **Corey Foreman @ respec.com**
 Sample Origin: **SP** EPA/State Compliance: Yes No
 Email: **Eric Keanre** Sampler: (Please Print) **Eric Keanre**
 Purchase Order: Quote/Bottle Order:

Special Report/Formats - EI must be notified prior to sample submittal for the following:

- DW A2LA
- GSA EDD/EDT (Electronic Data)
- POTW/WWTP Format: _____
- State: _____ LEVEL IV
- Other: _____ NELAC

Number of Containers _____
 Sample Type: A W S V B O
 Air Water Soils/Solids
 Vegetation Bioassay Other

ANALYSIS REQUESTED

SEE ATTACHED
 Normal Turnaround (TAT)

R U S H

Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:

Shipped by: _____
 Cooler Dtg: _____
 Receipt Temp: **6.4 °C**

On-Demand: Yes No

Custody Seal: Y N
 Invert: Y N
 Match: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Signature	Date/Time	Signature	Date/Time
1 Dea Blvd GW C31	05/19/08	11:06	W	<i>[Signature]</i>	05/20/08	<i>[Signature]</i>	05/20/08
2 Dea Blvd GW 13	05/19/08	12:20	W	<i>[Signature]</i>	05/20/08	<i>[Signature]</i>	05/20/08
3 Dea Blvd GW 4002	05/19/08	13:00	W	<i>[Signature]</i>	05/20/08	<i>[Signature]</i>	05/20/08
4							
5							
6							
7							
8							
9							
10							

LABORATORY USE ONLY

Custody Record MUST be Signed

Requisitioned by (print): **Eric Keanre** Date/Time: **5/20/08 08:48** Signature: *[Signature]*
 Requisitioned by (print): **Eric Keanre** Date/Time: **5/20/08 08:48** Signature: *[Signature]*
 Sample Disposal: _____ Return to Client: _____ Lab Disposal: _____
 Received by Laboratory: _____ Date/Time: _____ Signature: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08050321

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08051031

-The LLD for Pb-210 per RG 4.14 is 1 pCi/L. The method used here can achieve an LLD (MDC) of about 5 pCi/L based on a 1.0 L sample size, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08051031



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-001
 Client Sample ID: DewBurd GW696

Report Date: 08/21/08
 Collection Date: 05/21/08 11:55
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B	05/27/08 09:50/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/08 09:50/mb
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B	05/27/08 09:50/mb
Calcium	31.0	mg/L		0.5		2	E200.7	06/03/08 13:26/eli-c
Chloride	12	mg/L		1		1	E300.0	05/23/08 00:52/fmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/23/08 00:52/fmh
Magnesium	10.9	mg/L		0.5		2	E200.7	06/03/08 13:26/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	05/28/08 12:06/fmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/23/08 00:52/fmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/23/08 00:52/fmh
Potassium	9.2	mg/L		0.5		2	E200.7	06/03/08 13:26/eli-c
Silica	4.7	mg/L		0.5		2	E200.7	06/03/08 13:26/eli-c
Sodium	294	mg/L	D	2		2	E200.7	06/03/08 13:26/eli-c
Sulfate	505	mg/L	D	3		50	E300.0	05/23/08 00:35/fmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1420	umhos/cm		5.0		1	A2510 B	05/23/08 16:21/tb
Oxidation-Reduction Potential	120	mV				1	A2580 B	05/23/08 16:00/kh
pH	8.35	s.u.		0.01		1	A4500-H B	05/23/08 14:52/kh
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5		1	A2540 C	05/22/08 15:35/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/03/08 13:26/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/06/08 20:58/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 13:26/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 13:26/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 20:58/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 13:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/06/08 20:58/eli-c
Iron	0.09	mg/L		0.03		2	E200.7	06/03/08 13:26/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 20:58/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7	06/03/08 13:26/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/06/08 20:58/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 13:26/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 13:26/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/03/08 15:25/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 20:58/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/06/08 20:58/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-001
 Client Sample ID: DewBurd GW696

Report Date: 08/21/08
 Collection Date: 05/21/08 11:55
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/06/08 20:58/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/03/08 13:26/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 13:26/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 22:07/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:33/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	14.3	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha MDC	3.1	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta	9.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta MDC	3.7	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Lead 210	-2.7	pCi/L	U			1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	29.8	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	17.7	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	06/05/08 17:45/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	06/05/08 17:45/eli-c
Radium 226	1.8	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	2.1	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	06/03/08 10:37/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	06/03/08 10:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-001
 Client Sample ID: DewBurd GW696

Report Date: 08/21/08
 Collection Date: 05/21/08 11:55
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	497	pCi/L		100		1	D5072-92	05/29/08 13:01/eli-c
Radon 222 precision (±)	138	pCi/L				1	D5072-92	05/29/08 13:01/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 18:09/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	06/06/08 18:09/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 18:16/eli-c
Beryllium	ND	mg/L	D	0.003		2	E200.7	06/03/08 18:16/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 18:16/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 18:09/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 18:16/eli-c
Copper	ND	mg/L		0.01		2	E200.7	06/03/08 18:16/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	06/03/08 18:16/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 18:09/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7	06/03/08 18:16/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 22:00/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 18:16/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 18:16/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 18:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 18:09/eli-c
Strontium	0.8	mg/L		0.1		2	E200.7	06/03/08 18:16/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 18:09/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/06/08 18:09/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 18:16/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.21	%				1	A1030 E	08/09/08 10:00/jmh
Anions	14.5	meq/L				1	A1030 E	08/09/08 10:00/jmh
Cations	15.5	meq/L				1	A1030 E	08/09/08 10:00/jmh
Solids, Total Dissolved Calculated	984	mg/L				1	A1030 E	08/09/08 10:00/jmh
TDS Balance (0.80 - 1.20)	0.940					1	A1030 E	08/09/08 10:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-002
 Client Sample ID: DewBurd GW680

Report Date: 08/21/08
 Collection Date: 05/21/08 12:50
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	254	mg/L		5		1	A2320 B	05/27/08 09:54/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/08 09:54/mb
Bicarbonate as HCO3	310	mg/L		5		1	A2320 B	05/27/08 09:54/mb
Calcium	406	mg/L		0.5		2	E200.7	06/03/08 13:43/eii-c
Chloride	12	mg/L		1		1	E300.0	05/23/08 01:25/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/23/08 01:25/jmh
Magnesium	133	mg/L		0.5		2	E200.7	06/03/08 13:43/eii-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/28/08 12:07/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/23/08 01:25/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/23/08 01:25/jmh
Potassium	19.5	mg/L		0.5		2	E200.7	06/03/08 13:43/eii-c
Silica	4.1	mg/L		0.5		2	E200.7	06/03/08 13:43/eii-c
Sodium	132	mg/L	D	2		2	E200.7	06/03/08 13:43/eii-c
Sulfate	1370	mg/L	D	3		50	E300.0	05/23/08 01:08/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2860	umhos/cm		5.0		1	A2510 B	05/23/08 16:25/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B	05/23/08 16:00/kh
pH	7.08	s.u.		0.01		1	A4500-H B	05/23/08 14:54/kh
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10		1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	05/22/08 15:35/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/03/08 13:43/eii-c
Arsenic	0.004	mg/L		0.001		1	E200.8	06/06/08 21:05/eii-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 13:43/eii-c
Boron	0.2	mg/L		0.1		2	E200.7	06/03/08 13:43/eii-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 21:05/eii-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 13:43/eii-c
Copper	ND	mg/L		0.01		1	E200.8	06/06/08 21:05/eii-c
Iron	0.21	mg/L		0.03		2	E200.7	06/03/08 13:43/eii-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 21:05/eii-c
Manganese	0.48	mg/L		0.01		2	E200.7	06/03/08 13:43/eii-c
Mercury	ND	mg/L		0.001		1	E200.8	06/06/08 21:05/eii-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 13:43/eii-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 13:43/eii-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/03/08 15:27/eii-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 21:05/eii-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/06/08 21:05/eii-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-002
 Client Sample ID: DewBurd GW680

Report Date: 08/21/08
 Collection Date: 05/21/08 12:50
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0280	mg/L		0.0003		1	E200.8	06/06/08 21:05/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/03/08 13:43/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 13:43/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 22:13/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:35/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4500	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha precision (±)	64.8	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha MDC	6.9	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta	1530	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta precision (±)	18.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta MDC	8.7	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Lead 210	61.8	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	35.7	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	22.9	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	1.5	pCi/L		1.0		1	RMO-3008	06/05/08 17:45/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	06/05/08 17:45/eli-c
Radium 226	1240	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Radium 226 precision (±)	6.1	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	21000	pCi/L		20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	250	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	6.8	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.86	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	1.0	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	06/03/08 10:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-002
 Client Sample ID: DewBurd GW680

Report Date: 08/21/08
 Collection Date: 05/21/08 12:50
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	359000	pCi/L		100		1	D5072-92	05/29/08 13:01/eli-c
Radon 222 precision (±)	1160	pCi/L				1	D5072-92	05/29/08 13:01/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 18:16/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	06/06/08 18:16/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 18:24/eli-c
Beryllium	ND	mg/L	D	0.003		2	E200.7	06/03/08 18:24/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	06/03/08 18:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 18:16/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 18:24/eli-c
Copper	ND	mg/L		0.01		2	E200.7	06/03/08 18:24/eli-c
Cobalt	0.35	mg/L		0.03		2	E200.7	06/03/08 18:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 18:16/eli-c
Manganese	0.52	mg/L		0.01		2	E200.7	06/03/08 18:24/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 22:07/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 18:24/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 18:24/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 18:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 18:16/eli-c
Strontium	8.2	mg/L		0.1		2	E200.7	06/03/08 18:24/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 18:16/eli-c
Uranium	0.0273	mg/L		0.0003		1	E200.8	06/06/08 18:16/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	06/03/08 18:24/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.04	%				1	A1030 E	08/09/08 10:00/jmh
Anions	33.9	meq/L				1	A1030 E	08/09/08 10:00/jmh
Cations	37.5	meq/L				1	A1030 E	08/09/08 10:00/jmh
Solids, Total Dissolved Calculated	2240	mg/L				1	A1030 E	08/09/08 10:00/jmh
TDS Balance (0.80 - 1.20)	1.04					1	A1030 E	08/09/08 10:00/jmh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-003
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 05/21/08 14:45
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	05/27/08 10:01/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/08 10:01/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	05/27/08 10:01/mb
Calcium	52.1	mg/L		0.5		2	E200.7	06/03/08 13:51/eli-c
Chloride	11	mg/L		1		1	E300.0	05/23/08 02:30/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/23/08 02:30/jmh
Magnesium	19.4	mg/L		0.5		2	E200.7	06/03/08 13:51/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	05/28/08 12:11/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/23/08 02:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/23/08 02:30/jmh
Potassium	8.8	mg/L		0.5		2	E200.7	06/03/08 13:51/eli-c
Silica	4.4	mg/L		0.5		2	E200.7	06/03/08 13:51/eli-c
Sodium	254	mg/L	D	2		2	E200.7	06/03/08 13:51/eli-c
Sulfate	530	mg/L	D	3		50	E300.0	05/23/08 01:41/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1560	umhos/cm		5.0		1	A2510 B	05/23/08 16:26/tb
Oxidation-Reduction Potential	190	mV				1	A2580 B	05/23/08 16:00/kh
pH	7.91	s.u.		0.01		1	A4500-H B	05/23/08 14:55/kh
Sodium Adsorption Ratio (SAR)	7.6	unitless		0.10		1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C	05/22/08 15:36/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/03/08 13:51/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	06/06/08 21:12/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 13:51/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 13:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 21:12/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 13:51/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/06/08 21:12/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/03/08 13:51/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 21:12/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7	06/03/08 13:51/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/06/08 21:12/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 13:51/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 13:51/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/03/08 15:29/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 21:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/06/08 21:12/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit

MDC - Minimum detectable concentration

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-003
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 05/21/08 14:45
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0029	mg/L		0.0003		1	E200.8	06/06/08 21:12/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/03/08 13:51/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 13:51/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 22:34/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:37/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	25.6	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha MDC	3.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta	8.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta MDC	3.7	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Lead 210	3.1	pCi/L	U			1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	30.0	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	18.0	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	-0.3	pCi/L	U	1.0		1	RMO-3008	06/05/08 17:45/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008	06/05/08 17:45/eli-c
Radium 226	3.7	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	140	pCi/L		20		1	E901.1	05/28/08 05:30/eli-c
Gross Gamma precision (±)	29	pCi/L				1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.7	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	06/03/08 10:37/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	06/03/08 10:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-003
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 05/21/08 14:45
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	05/29/08 15:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	2090	pCi/L		100		1	D5072-92	05/29/08 13:01/eli-c
Radon 222 precision (±)	155	pCi/L				1	D5072-92	05/29/08 13:01/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 18:22/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	06/06/08 18:22/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 18:29/eli-c
Beryllium	ND	mg/L	D	0.003		2	E200.7	06/03/08 18:29/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 18:29/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 18:22/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 18:29/eli-c
Copper	ND	mg/L		0.01		2	E200.7	06/03/08 18:29/eli-c
Cobalt	0.12	mg/L		0.03		2	E200.7	06/03/08 18:29/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 18:22/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7	06/03/08 18:29/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 22:09/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 18:29/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 18:29/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 18:22/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 18:22/eli-c
Strontium	1.0	mg/L		0.1		2	E200.7	06/03/08 18:29/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 18:22/eli-c
Uranium	0.0029	mg/L		0.0003		1	E200.8	06/06/08 18:22/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 18:29/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.68	%				1	A1030 E	08/09/08 10:00/jmh
Anions	15.0	meq/L				1	A1030 E	08/09/08 10:00/jmh
Cations	15.5	meq/L				1	A1030 E	08/09/08 10:00/jmh
Solids, Total Dissolved Calculated	996	mg/L				1	A1030 E	08/09/08 10:00/jmh
TDS Balance (0.80 - 1.20)	0.920					1	A1030 E	08/09/08 10:00/jmh

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-004
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 05/21/08 15:54
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	192	mg/L		5			1	A2320 B	05/27/08 10:05/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	05/27/08 10:05/mb
Bicarbonate as HCO3	234	mg/L		5			1	A2320 B	05/27/08 10:05/mb
Calcium	103	mg/L		0.5			2	E200.7	06/03/08 13:55/eli-c
Chloride	9	mg/L		1			1	E300.0	05/23/08 03:36/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	05/23/08 03:36/jmh
Magnesium	38.6	mg/L		0.5			2	E200.7	06/03/08 13:55/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	05/28/08 12:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	05/23/08 03:36/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	05/23/08 03:36/jmh
Potassium	13.1	mg/L		0.5			2	E200.7	06/03/08 13:55/eli-c
Silica	4.7	mg/L		0.5			2	E200.7	06/03/08 13:55/eli-c
Sodium	180	mg/L	D	2			2	E200.7	06/03/08 13:55/eli-c
Sulfate	493	mg/L	D	3			50	E300.0	05/23/08 02:47/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1550	umhos/cm		5.0			1	A2510 B	05/23/08 16:27/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	05/23/08 16:00/kh
pH	7.54	s.u.		0.01			1	A4500-H B	05/23/08 14:56/kh
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10			1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	970	mg/L		5			1	A2540 C	05/22/08 15:37/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/03/08 13:55/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	06/06/08 21:18/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/03/08 13:55/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/03/08 13:55/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/06/08 21:18/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/03/08 13:55/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/06/08 21:18/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/03/08 13:55/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/06/08 21:18/eli-c
Manganese	0.16	mg/L		0.01			2	E200.7	06/03/08 13:55/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/06/08 21:18/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/03/08 13:55/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/03/08 13:55/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/03/08 15:31/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/06/08 21:18/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	06/06/08 21:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-004
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 05/21/08 15:54
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0008	mg/L		0.0003		1	E200.8	06/06/08 21:18/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/03/08 13:55/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 13:55/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/07/08 22:39/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:39/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	10.6	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha MDC	3.2	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta	12.5	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta MDC	3.8	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Lead 210	-2.3	pCi/L	U			1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	29.0	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	17.2	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1	RMO-3008	06/05/08 17:45/eli-c
Polonium 210 precision (±)	0.90	pCi/L				1	RMO-3008	06/05/08 17:45/eli-c
Radium 226	1.9	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.4	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	06/03/08 10:37/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	05/29/08 15:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-004
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 05/21/08 15:54
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	05/29/08 15:00/eii-c
RADIONUCLIDES - TOTAL								
Radon 222	619	pCi/L		100		1	D5072-92	05/29/08 13:01/eii-c
Radon 222 precision (±)	135	pCi/L				1	D5072-92	05/29/08 13:01/eii-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 18:29/eii-c
Arsenic	0.004	mg/L		0.001		1	E200.8	06/06/08 18:29/eii-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 18:33/eii-c
Beryllium	ND	mg/L	D	0.003		2	E200.7	06/03/08 18:33/eii-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 18:33/eii-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 18:29/eii-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 18:33/eii-c
Copper	ND	mg/L		0.01		2	E200.7	06/03/08 18:33/eii-c
Cobalt	0.16	mg/L		0.03		2	E200.7	06/03/08 18:33/eii-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 18:29/eii-c
Manganese	0.17	mg/L		0.01		2	E200.7	06/03/08 18:33/eii-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 22:16/eii-b
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 18:33/eii-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 18:33/eii-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 18:29/eii-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 18:29/eii-c
Strontium	3.0	mg/L		0.1		2	E200.7	06/03/08 18:33/eii-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 18:29/eii-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	06/06/08 18:29/eii-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 18:33/eii-c
DATA QUALITY								
A/C Balance (± 5)	6.92	%				1	A1030 E	08/09/08 10:00/jmh
Anions	14.4	meq/L				1	A1030 E	08/09/08 10:00/jmh
Cations	16.5	meq/L				1	A1030 E	08/09/08 10:00/jmh
Solids, Total Dissolved Calculated	965	mg/L				1	A1030 E	08/09/08 10:00/jmh
TDS Balance (0.80 - 1.20)	1.01					1	A1030 E	08/09/08 10:00/jmh

Report RL - Analyte reporting limit.
 Defaultions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-005
 Client Sample ID: DewBurd GW697

Report Date: 08/21/08
 Collection Date: 05/21/08 16:44
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	05/27/08 10:07/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/08 10:07/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	05/27/08 10:07/mb
Calcium	52.8	mg/L		0.5		2	E200.7	06/03/08 13:59/eli-c
Chloride	8	mg/L		1		1	E300.0	05/23/08 04:09/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/23/08 04:09/jmh
Magnesium	18.0	mg/L		0.5		2	E200.7	06/03/08 13:59/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	05/28/08 12:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/23/08 04:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/23/08 04:09/jmh
Potassium	8.5	mg/L		0.5		2	E200.7	06/03/08 13:59/eli-c
Silica	4.6	mg/L		0.5		2	E200.7	06/03/08 13:59/eli-c
Sodium	216	mg/L	D	2		2	E200.7	06/03/08 13:59/eli-c
Sulfate	456	mg/L	D	3		50	E300.0	05/23/08 03:52/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1380	umhos/cm		5.0		1	A2510 B	05/23/08 16:28/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	05/23/08 16:00/kh
pH	7.90	s.u.		0.01		1	A4500-H B	05/23/08 14:57/kh
Sodium Adsorption Ratio (SAR)	6.5	unitless		0.10		1	Calculation	08/09/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	790	mg/L		5		1	A2540 C	05/22/08 15:37/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/03/08 13:59/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	06/06/08 21:25/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 13:59/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 13:59/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 21:25/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 13:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/06/08 21:25/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	06/03/08 13:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 21:25/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	06/03/08 13:59/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/06/08 21:25/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 13:59/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 13:59/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/03/08 15:34/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 21:25/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/06/08 21:25/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050321-005
Client Sample ID: DewBurd GW697

Report Date: 08/21/08
Collection Date: 05/21/08 16:44
Date Received: 05/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/06/08 21:25/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/03/08 13:59/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/03/08 13:59/eli-c
METALS - SUSPENDED								
Uranium	0.0007	mg/L		0.0003		1	E200.8	06/07/08 22:45/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/03/08 11:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/03/08 16:19/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4.1	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha precision (±)	2.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Alpha MDC	2.7	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta	5.4	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta precision (±)	2.0	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0	06/08/08 04:27/eli-c
Lead 210	-4.3	pCi/L	U			1	E909.0M	06/25/08 11:25/eli-c
Lead 210 MDC	28.2	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Lead 210 precision (±)	16.7	pCi/L				1	E909.0M	06/25/08 11:25/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/05/08 17:45/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	06/05/08 17:45/eli-c
Radium 226	1.1	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/09/08 17:24/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/04/08 10:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/04/08 10:00/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	05/28/08 05:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.0	pCi/L	U			1	E909.0M	07/03/08 09:50/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Lead 210 MDC	8.8	pCi/L				1	E909.0M	07/03/08 09:50/eli-c
Polonium 210	1.2	pCi/L		1.0		1	RMO-3008	06/19/08 12:00/eli-c
Polonium 210 precision (±)	0.81	pCi/L				1	RMO-3008	06/19/08 12:00/eli-c
Radium 226	3.8	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	06/03/08 10:37/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	05/29/08 15:00/eli-c

Report RL - Analyte reporting limit.
 Default: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050321-005
 Client Sample ID: DewBurd GW697

Report Date: 08/21/08
 Collection Date: 05/21/08 16:44
 Date Received: 05/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/29/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	570	pCi/L		100		1	D5072-92	05/29/08 13:01/eli-c
Radon 222 precision (±)	134	pCi/L				1	D5072-92	05/29/08 13:01/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/06/08 18:36/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	06/06/08 18:36/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/03/08 18:49/eli-c
Beryllium	ND	mg/L	D	0.003		2	E200.7	06/03/08 18:49/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/03/08 18:49/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/06/08 18:36/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/03/08 18:49/eli-c
Copper	ND	mg/L		0.01		2	E200.7	06/03/08 18:49/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	06/03/08 18:49/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/06/08 18:36/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	06/03/08 18:49/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/04/08 22:19/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	06/03/08 18:49/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/03/08 18:49/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/06/08 18:36/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/06/08 18:36/eli-c
Strontium	1.2	mg/L		0.1		2	E200.7	06/03/08 18:49/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/06/08 18:36/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/06/08 18:36/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	06/03/08 18:49/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.35	%				1	A1030 E	08/09/08 10:00/jmh
Anions	13.1	meq/L				1	A1030 E	08/09/08 10:00/jmh
Cations	13.7	meq/L				1	A1030 E	08/09/08 10:00/jmh
Solids, Total Dissolved Calculated	873	mg/L				1	A1030 E	08/09/08 10:00/jmh
TDS Balance (0.80 - 1.20)	0.910					1	A1030 E	08/09/08 10:00/jmh

Report Defaults: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 080527A-ALK-SEL-W
Sample ID: LCS1_080527A	Laboratory Control Sample					Run: PH_COND1-R_080527A			05/27/08 09:44
Alkalinity, Total as CaCO3	968	mg/L	5.0	97	90	110			
Sample ID: MBLK1_080527A	Method Blank					Run: PH_COND1-R_080527A			05/27/08 09:46
Alkalinity, Total as CaCO3	ND	mg/L	3						
Method: A2510 B									Batch: 080523_1_COND-PROBE-W
Sample ID: LCS_COND-1_080523	Laboratory Control Sample					Run: PH_COND2-R_080523B			05/23/08 15:55
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_080523	Laboratory Control Sample					Run: PH_COND2-R_080523B			05/23/08 15:56
Conductivity @ 25 C	150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_080523	Laboratory Control Sample					Run: PH_COND2-R_080523B			05/23/08 15:57
Conductivity @ 25 C	5000	umhos/cm	5.0	100	90	110			
Sample ID: R08050321-001ADUP	Sample Duplicate					Run: PH_COND2-R_080523B			05/23/08 16:24
Conductivity @ 25 C	1460	umhos/cm	5.0				2.8	10	
Method: A2540 C									Batch: 080522A-SLDS-TDS-W
Sample ID: LCS1_080522A	Laboratory Control Sample					Run: BAL-4-R_080523A			05/22/08 15:25
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	107	90	110			
Sample ID: MBLK1_080522A	Method Blank					Run: BAL-4-R_080523A			05/22/08 15:26
Solids, Total Dissolved TDS @ 180 C	4	mg/L	3						
Sample ID: R08050307-001BMS	Sample Matrix Spike					Run: BAL-4-R_080523A			05/23/08 00:00
Solids, Total Dissolved TDS @ 180 C	2700	mg/L	5.0	120	80	120			
Sample ID: R08050307-001BMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080523A			05/23/08 00:00
Solids, Total Dissolved TDS @ 180 C	2700	mg/L	5.0	119	80	120	0.1	10	
Sample ID: R08050321-005AMS	Sample Matrix Spike					Run: BAL-4-R_080523A			05/22/08 15:38
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	113	80	120			
Sample ID: R08050321-005AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080523A			05/22/08 15:38
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	109	80	120	0.8	10	

Qualifiers:

- - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080603A		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	6E-05						Run: SUB-C102059 06/03/08 11:03
Sample ID: 288-81-1 Selenium-IV	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			Run: SUB-C102059 06/03/08 11:05
Sample ID: R08050321-005E Selenium-IV	Sample Matrix Spike 0.046	mg/L	0.0010	92	85	115			Run: SUB-C102059 06/03/08 11:43
Sample ID: R08050321-005E Selenium-IV	Sample Matrix Spike Duplicate 0.047	mg/L	0.0010	94	85	115	1.7	10	Run: SUB-C102059 06/03/08 11:45
Method: A3114 B							Batch: C_SE3114-080603B		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05						Run: SUB-C102093 06/03/08 15:00
Sample ID: 288-81-1 Selenium	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			Run: SUB-C102093 06/03/08 15:02
Sample ID: R08050321-005E Selenium	Sample Matrix Spike 0.045	mg/L	0.0010	91	85	115			Run: SUB-C102093 06/03/08 15:36
Sample ID: R08050321-005E Selenium	Sample Matrix Spike Duplicate 0.045	mg/L	0.0010	90	85	115	0.3	10	Run: SUB-C102093 06/03/08 15:38
Method: A4500-H B							Batch: 080523_1_PH-W		
Sample ID: LCS_pH-1_080523 pH	Laboratory Control Sample 6.92	s.u.	0.010	101	98.55	101.45			Run: PH_COND2-R_080523A 05/23/08 14:21
Sample ID: R08050321-001ADUP pH	Sample Duplicate 8.34	s.u.	0.010				0.1	1.25	Run: PH_COND2-R_080523A 05/23/08 14:53

Qualifiers:

L - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-05-28_2_NH3_01		
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						Run: TECHAA2-R_080528A 05/28/08 10:35
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.27	mg/L	0.10	107	90	110			Run: TECHAA2-R_080528A 05/28/08 10:36
Sample ID: LFB-4	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.25	mg/L	0.10	100	90	110			Run: TECHAA2-R_080528A 05/28/08 10:38
Sample ID: R08050307-001CMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.23	mg/L	0.10	90	80	120			Run: TECHAA2-R_080528A 05/28/08 12:00
Sample ID: R08050307-001CMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.24	mg/L	0.10	96	80	120	5.6	10	Run: TECHAA2-R_080528A 05/28/08 12:02
Sample ID: R08050321-003BMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.39	mg/L	0.10	98	80	120			Run: TECHAA2-R_080528A 05/28/08 12:12
Sample ID: R08050321-003BMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.40	mg/L	0.10	98	80	120	0.3	10	Run: TECHAA2-R_080528A 05/28/08 12:13
Method: D5072-92							Batch: C_R101920		
Sample ID: R08050321-005G	Sample Duplicate								
Radon 222	525	pCi/L	100				8.2	30	Run: SUB-C101920 05/29/08 13:01
Sample ID: MB-R101920	Method Blank								
Radon 222	20	pCi/L							Run: SUB-C101920 05/29/08 13:01 U
Sample ID: LCS-R101920	Laboratory Control Sample								
Radon 222	301	pCi/L	100	93	70	130			Run: SUB-C101920 05/29/08 13:01

Qualifiers:

L - Analyte reporting limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									
Batch: C_18693									
Sample ID: MB-18693	Method Blank			Run: SUB-C102127			06/03/08 18:04		
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.006	mg/L	0.001						
Sample ID: LCS3-18693	Laboratory Control Sample			Run: SUB-C102127			06/03/08 18:08		
Barium	0.526	mg/L	0.10	105	85	115			
Boron	0.548	mg/L	0.10	110	85	115			
Chromium	0.532	mg/L	0.050	106	85	115			
Copper	0.534	mg/L	0.010	107	85	115			
Iron	5.61	mg/L	0.030	112	85	115			
Manganese	2.67	mg/L	0.010	107	85	115			
Molybdenum	0.529	mg/L	0.10	106	85	115			
Nickel	0.525	mg/L	0.050	105	85	115			
Strontium	0.545	mg/L	0.10	109	85	115			
Zinc	0.539	mg/L	0.010	107	85	115			
Sample ID: R08050321-005D	Sample Matrix Spike			Run: SUB-C102127			06/03/08 18:53		
Barium	0.559	mg/L	0.10	107	70	130			
Boron	0.602	mg/L	0.10	107	70	130			
Chromium	0.533	mg/L	0.050	107	70	130			
Copper	0.547	mg/L	0.010	109	70	130			
Iron	5.53	mg/L	0.030	110	70	130			
Manganese	2.78	mg/L	0.010	109	70	130			
Molybdenum	0.536	mg/L	0.10	107	70	130			
Nickel	0.542	mg/L	0.050	108	70	130			
Strontium	1.74	mg/L	0.10	100	70	130			
Zinc	0.544	mg/L	0.010	107	70	130			
Sample ID: R08050321-005D	Sample Matrix Spike Duplicate			Run: SUB-C102127			06/03/08 18:57		
Barium	0.551	mg/L	0.10	105	70	130	1.5	20	
Boron	0.614	mg/L	0.10	109	70	130	2.0	20	
Chromium	0.531	mg/L	0.050	106	70	130	0.3	20	
Copper	0.539	mg/L	0.010	108	70	130	1.5	20	
Iron	5.50	mg/L	0.030	109	70	130	0.6	20	
Manganese	2.75	mg/L	0.010	107	70	130	1.1	20	
Molybdenum	0.539	mg/L	0.10	108	70	130	0.7	20	

Qualifiers:

- Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18693		
Sample ID: R08050321-005D	Sample Matrix Spike Duplicate			Run: SUB-C102127			06/03/08 18:57		
Nickel	0.541	mg/L	0.050	108	70	130	0.2	20	
Strontium	1.72	mg/L	0.10	96	70	130	1.2	20	
Zinc	0.544	mg/L	0.010	107	70	130	0.1	20	
Sample ID: R08050321-005D	Sample Matrix Spike			Run: SUB-C102628			06/12/08 21:43		
Barium	0.536	mg/L	0.10	102	70	130			
Boron	0.573	mg/L	0.10	105	70	130			
Chromium	0.518	mg/L	0.050	104	70	130			
Copper	0.521	mg/L	0.010	104	70	130			
Iron	5.55	mg/L	0.030	110	70	130			
Manganese	2.65	mg/L	0.010	104	70	130			
Molybdenum	0.516	mg/L	0.10	103	70	130			
Nickel	0.507	mg/L	0.050	101	70	130			
Strontium	1.67	mg/L	0.10	99	70	130			
Zinc	0.523	mg/L	0.010	104	70	130			
Sample ID: R08050321-005D	Sample Matrix Spike Duplicate			Run: SUB-C102628			06/12/08 21:47		
Barium	0.550	mg/L	0.10	105	70	130	2.6	20	
Boron	0.584	mg/L	0.10	107	70	130	1.9	20	
Chromium	0.526	mg/L	0.050	105	70	130	1.5	20	
Copper	0.529	mg/L	0.010	106	70	130	1.5	20	
Iron	5.49	mg/L	0.030	108	70	130	1.1	20	
Manganese	2.69	mg/L	0.010	105	70	130	1.6	20	
Molybdenum	0.528	mg/L	0.10	106	70	130	2.3	20	
Nickel	0.517	mg/L	0.050	103	70	130	2.0	20	
Strontium	1.70	mg/L	0.10	106	70	130	2.0	20	
Zinc	0.533	mg/L	0.010	106	70	130	1.9	20	

Qualifiers:

L - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102127		
Sample ID: MB-080603A	Method Blank		Run: SUB-C102127			06/03/08 12:29			
Silica	ND	mg/L		0.02					
Aluminum	ND	mg/L		0.004					
Barium	ND	mg/L		0.006					
Boron	0.02	mg/L		0.008					
Calcium	ND	mg/L		0.1					
Chromium	ND	mg/L		0.002					
Iron	ND	mg/L		0.005					
Magnesium	ND	mg/L		0.04					
Manganese	ND	mg/L		0.0003					
Molybdenum	ND	mg/L		0.003					
Nickel	ND	mg/L		0.004					
Potassium	ND	mg/L		0.02					
Sodium	ND	mg/L		0.8					
Vanadium	0.03	mg/L		0.003					
Zinc	ND	mg/L		0.002					
Sample ID: LFB-080603A	Laboratory Fortified Blank		Run: SUB-C102127			06/03/08 12:33			
Silica	0.38	mg/L	0.10	94	85	125			
Aluminum	0.94	mg/L	0.10	94	85	125			
Barium	0.99	mg/L	0.10	99	85	125			
Boron	1.0	mg/L	0.10	99	85	125			
Calcium	53	mg/L	0.50	105	85	125			
Chromium	1.0	mg/L	0.050	101	85	125			
Iron	1.1	mg/L	0.030	109	85	125			
Magnesium	53	mg/L	0.50	106	85	125			
Manganese	1.0	mg/L	0.010	101	85	125			
Molybdenum	0.97	mg/L	0.10	97	85	125			
Nickel	1.0	mg/L	0.050	101	85	125			
Potassium	46	mg/L	0.50	91	85	125			
Sodium	49	mg/L	0.77	99	85	125			
Vanadium	1.1	mg/L	0.10	107	85	125			
Zinc	1.0	mg/L	0.010	102	85	125			
Sample ID: C08051031-001CMS2	Sample Matrix Spike		Run: SUB-C102127			06/03/08 13:35			
Aluminum	1.98	mg/L	0.10	97	70	130			
Barium	2.02	mg/L	0.10	99	70	130			
Boron	2.11	mg/L	0.10	99	70	130			
Chromium	2.06	mg/L	0.050	101	70	130			
Iron	2.22	mg/L	0.030	105	70	130			
Manganese	2.12	mg/L	0.010	101	70	130			
Molybdenum	1.96	mg/L	0.10	96	70	130			
Nickel	2.04	mg/L	0.050	100	70	130			
Vanadium	2.16	mg/L	0.10	103	70	130			

Qualifiers:

.L - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102127		
Sample ID: C08051031-001CMS2	Sample Matrix Spike			Run: SUB-C102127			06/03/08 13:35		
Zinc	2.10	mg/L	0.010	102	70	130			
Calcium	137	mg/L	1.0	104	70	130			
Magnesium	120	mg/L	1.0	107	70	130			
Potassium	101	mg/L	1.0	90	70	130			
Silica	5.53	mg/L	0.10		70	130			A
Sodium	386	mg/L	1.5	90	70	130			
Sample ID: C08051031-001CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C102127			06/03/08 13:39		
Aluminum	1.93	mg/L	0.10	95	70	130	2.6	20	
Barium	1.98	mg/L	0.10	96	70	130	2.1	20	
Boron	2.07	mg/L	0.10	97	70	130	2.0	20	
Chromium	2.01	mg/L	0.050	99	70	130	2.4	20	
Iron	2.21	mg/L	0.030	104	70	130	0.5	20	
Manganese	2.07	mg/L	0.010	98	70	130	2.3	20	
Molybdenum	1.91	mg/L	0.10	94	70	130	2.3	20	
Nickel	2.01	mg/L	0.050	98	70	130	1.7	20	
Vanadium	2.11	mg/L	0.10	101	70	130	2.5	20	
Zinc	2.02	mg/L	0.010	99	70	130	3.7	20	
Calcium	134	mg/L	1.0	101	70	130	2.4	20	
Magnesium	116	mg/L	1.0	103	70	130	3.1	20	
Potassium	99.6	mg/L	1.0	89	70	130	1.3	20	
Silica	5.40	mg/L	0.10		70	130	2.5	20	A
Sodium	381	mg/L	1.5	86	70	130	1.2	20	
Sample ID: C08051053-001AMS2	Sample Matrix Spike			Run: SUB-C102127			06/03/08 16:39		
Aluminum	0.997	mg/L	0.10	98	70	130			
Barium	1.04	mg/L	0.10	99	70	130			
Boron	1.02	mg/L	0.10	97	70	130			
Calcium	95.0	mg/L	0.50	100	70	130			
Chromium	1.03	mg/L	0.050	101	70	130			
Iron	1.05	mg/L	0.030	103	70	130			
Magnesium	79.8	mg/L	0.50	103	70	130			
Manganese	1.03	mg/L	0.010	101	70	130			
Molybdenum	0.867	mg/L	0.10	85	70	130			
Nickel	1.01	mg/L	0.050	99	70	130			
Potassium	48.0	mg/L	0.50	87	70	130			
Sodium	77.3	mg/L	0.77	95	70	130			
Vanadium	1.14	mg/L	0.10	105	70	130			
Zinc	1.03	mg/L	0.010	100	70	130			
Sample ID: C08051053-001AMS2	Sample Matrix Spike Duplicate			Run: SUB-C102127			06/03/08 16:43		
Aluminum	1.01	mg/L	0.10	99	70	130	1.3	20	
Barium	1.05	mg/L	0.10	100	70	130	1.2	20	

Qualifiers:

L - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102127		
Sample ID: C08051053-001AMSD2	Sample Matrix Spike Duplicate			Run: SUB-C102127			06/03/08 16:43		
Boron	1.03	mg/L	0.10	98	70	130	0.4	20	
Calcium	93.8	mg/L	0.50	98	70	130	1.2	20	
Chromium	1.04	mg/L	0.050	101	70	130	0.6	20	
Iron	1.08	mg/L	0.030	106	70	130	2.6	20	
Magnesium	80.2	mg/L	0.50	103	70	130	0.5	20	
Manganese	1.03	mg/L	0.010	100	70	130	0.4	20	
Molybdenum	0.924	mg/L	0.10	91	70	130	6.4	20	
Nickel	1.01	mg/L	0.050	99	70	130	0.1	20	
Potassium	48.6	mg/L	0.50	88	70	130	1.1	20	
Sodium	78.1	mg/L	0.77	97	70	130	1.0	20	
Vanadium	1.12	mg/L	0.10	103	70	130	1.8	20	
Zinc	1.03	mg/L	0.010	100	70	130	0.2	20	
Method: E200.8							Batch: C_18688		
Sample ID: C08050953-001FMS	Sample Matrix Spike			Run: SUB-C102315			06/07/08 18:31		
Uranium	0.0132	mg/L	0.00030	97	70	130			
Sample ID: C08050953-001FMDS	Sample Matrix Spike Duplicate			Run: SUB-C102315			06/07/08 18:36		
Uranium	0.0133	mg/L	0.00030	98	70	130	0.8	20	
Sample ID: R08050321-0051	Post Digestion Spike			Run: SUB-C102315			06/07/08 22:50		
Uranium	0.0128	mg/L	0.00030	97	70	130			
Sample ID: R08050321-0051	Post Digestion Spike Duplicate			Run: SUB-C102315			06/07/08 22:55		
Uranium	0.0129	mg/L	0.00030	98	70	130	0.7	20	

Qualifiers:

- - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18768		
Sample ID: MB-18768	Method Blank		Run: SUB-C102298			06/06/08 16:00			
Antimony	ND	mg/L	0.0002						
Arsenic	0.0007	mg/L	5E-05						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Selenium	0.0003	mg/L	0.0002						
Silver	0.0001	mg/L	5E-05						
Thallium	0.0001	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18768	Laboratory Control Sample		Run: SUB-C102298			06/06/08 16:07			
Antimony	0.580	mg/L	0.050	116	85	115			
Arsenic	0.562	mg/L	0.0010	112	85	115			
Cadmium	0.275	mg/L	0.010	110	85	115			
Lead	0.568	mg/L	0.050	114	85	115			
Selenium	0.569	mg/L	0.0020	114	85	115			
Silver	0.0480	mg/L	0.010	96	85	115			
Thallium	0.564	mg/L	0.10	113	85	115			
Sample ID: C08051073-001MMMS3	Sample Matrix Spike		Run: SUB-C102298			06/06/08 18:56			
Antimony	0.540	mg/L	0.050	108	70	130			
Arsenic	0.536	mg/L	0.0010	107	70	130			
Cadmium	0.263	mg/L	0.010	105	70	130			
Lead	0.529	mg/L	0.050	105	70	130			
Selenium	0.527	mg/L	0.0020	104	70	130			
Silver	0.0433	mg/L	0.010	87	70	130			
Thallium	0.519	mg/L	0.10	104	70	130			
Uranium	0.557	mg/L	0.00032	110	70	130			
Sample ID: C08051073-001MMMSD3	Sample Matrix Spike Duplicate		Run: SUB-C102298			06/06/08 19:23			
Antimony	0.539	mg/L	0.050	108	70	130	0.2	20	
Arsenic	0.535	mg/L	0.0010	106	70	130	0.2	20	
Cadmium	0.264	mg/L	0.010	106	70	130	0.4	20	
Lead	0.529	mg/L	0.050	105	70	130	0.1	20	
Selenium	0.534	mg/L	0.0020	105	70	130	1.3	20	
Silver	0.0451	mg/L	0.010	90	70	130	4.0	20	
Thallium	0.522	mg/L	0.10	104	70	130	0.5	20	
Uranium	0.572	mg/L	0.00032	113	70	130	2.6	20	
Sample ID: LCS3-18768	Laboratory Control Sample		Run: SUB-C102315			06/07/08 12:11			
Arsenic	0.519	mg/L	0.0010	104	85	115			
Lead	0.509	mg/L	0.050	102	85	115			
Selenium	0.519	mg/L	0.0020	104	85	115			
Uranium	0.519	mg/L	0.00032	104	85	115			

Qualifiers:

L - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R102298		
Sample ID: LRB	Method Blank			Run: SUB-C102298		06/06/08 13:52			
Arsenic	9E-05	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	8E-05	mg/L	4E-05						
Thorium 232	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C102298		06/06/08 13:58			
Arsenic	0.0543	mg/L	0.0010	108	85	115			
Cadmium	0.0527	mg/L	0.0010	105	85	115			
Copper	0.0539	mg/L	0.0010	108	85	115			
Lead	0.0537	mg/L	0.0010	107	85	115			
Mercury	0.00538	mg/L	0.0010	108	85	115			
Silver	0.0209	mg/L	0.0010	104	85	115			
Thorium 232	0.0540	mg/L	0.0010	108	85	115			
Uranium	0.0538	mg/L	0.00030	108	85	115			
Sample ID: C08051031-005CMS4	Post Digestion Spike			Run: SUB-C102298		06/06/08 21:32			
Arsenic	0.0538	mg/L	0.0010	104	70	130			
Cadmium	0.0483	mg/L	0.010	97	70	130			
Copper	0.0485	mg/L	0.010	96	70	130			
Lead	0.0532	mg/L	0.050	106	70	130			
Mercury	0.00536	mg/L	0.0010	107	70	130			
Silver	0.0128	mg/L	0.010	64	70	130			S
Thorium 232	0.0547	mg/L	0.0010	109	70	130			
Uranium	0.0552	mg/L	0.00030	110	70	130			
Sample ID: C08051031-005CMS4	Post Digestion Spike Duplicate			Run: SUB-C102298		06/06/08 21:39			
Arsenic	0.0524	mg/L	0.0010	102	70	130	2.5	20	
Cadmium	0.0487	mg/L	0.010	97	70	130	0.8	20	
Copper	0.0486	mg/L	0.010	96	70	130	0.2	20	
Lead	0.0526	mg/L	0.050	105	70	130	1.1	20	
Mercury	0.00539	mg/L	0.0010	108	70	130	0.6	20	
Silver	0.0133	mg/L	0.010	67	70	130	3.8	20	S
Thorium 232	0.0550	mg/L	0.0010	110	70	130	0.5	20	
Uranium	0.0548	mg/L	0.00030	109	70	130	0.7	20	

Qualifiers:

L - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_32817		
Sample ID: MB-32817	Method Blank					Run: SUB-C102258			06/04/08 21:47
Mercury	ND	mg/L		5E-05					
Sample ID: LFB-32817	Laboratory Fortified Blank					Run: SUB-C102258			06/04/08 21:49
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: R08050321-001D	Sample Matrix Spike					Run: SUB-C102258			06/04/08 22:02
Mercury	0.0020	mg/L	0.0010	98	70	130			
Sample ID: R08050321-001D	Sample Matrix Spike Duplicate					Run: SUB-C102258			06/04/08 22:05
Mercury	0.0021	mg/L	0.0010	103	70	130	5.5	30	
Method: E245.1							Analytical Run: SUB-C102258		
Sample ID: QCS	Initial Calibration Verification Standard								06/04/08 17:50
Mercury	0.0021	mg/L	0.0010	103	90	110			

Qualifiers:

- - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R34940		
Sample ID: LFB0805225816-3	Laboratory Fortified Blank			Run: DIONEX_080522A			05/22/08 18:18		
Chloride	4.63	mg/L	0.50	93	90	110			
Fluoride	1.78	mg/L	0.10	89	90	110			S
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.37	mg/L	0.10	95	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: LFB0805225816-4	Laboratory Fortified Blank			Run: DIONEX_080522A			05/22/08 18:34		
Chloride	4.76	mg/L	0.50	95	90	110			
Fluoride	1.84	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N	2.44	mg/L	0.10	98	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: R08050285-001AMS	Sample Matrix Spike			Run: DIONEX_080522A			05/22/08 22:57		
Chloride	596	mg/L	5.4	98	80	120			
Fluoride	93.8	mg/L	0.56	87	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	92	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	95	80	120			
Sulfate	964	mg/L	3.4	87	80	120			
Sample ID: R08050285-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080522A			05/22/08 23:13		
Chloride	576	mg/L	5.4	90	80	120	3.4	10	
Fluoride	90.6	mg/L	0.56	84	80	120	3.5	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	88	80	120	4.0	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	91	80	120	3.6	10	
Sulfate	934	mg/L	3.4	83	80	120	3.2	10	
Sample ID: R08050321-004AMS	Sample Matrix Spike			Run: DIONEX_080522A			05/23/08 03:03		
Chloride	247	mg/L	5.4	90	80	120			
Fluoride	92.8	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120			
Nitrogen, Nitrite as N	122	mg/L	2.9	98	80	120			
Sulfate	1140	mg/L	3.4	86	80	120			
Sample ID: R08050321-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080522A			05/23/08 03:19		
Chloride	238	mg/L	5.4	86	80	120	3.7	10	
Fluoride	89.0	mg/L	0.56	82	80	120	4.2	10	
Nitrogen, Nitrate as N	113	mg/L	1.3	91	80	120	4.9	10	
Nitrogen, Nitrite as N	117	mg/L	2.9	94	80	120	4.1	10	
Sulfate	1120	mg/L	3.4	83	80	120	1.4	10	

Qualifiers:

L - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0455		
Sample ID: MB-GrAB-0455	Method Blank								
Gross Alpha	0.6	pCi/L							U
Gross Beta	-0.6	pCi/L							U
Sample ID: Th230-GrAB-0455	Laboratory Control Sample								
Gross Alpha	150	pCi/L	110	70	130				
Sample ID: Cs137-GrAB-0455	Laboratory Control Sample								
Gross Beta	88	pCi/L	94	70	130				
Sample ID: C08050619-001AMS	Sample Matrix Spike								
Gross Alpha	92	pCi/L	65	70	130				S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08050619-001AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	87	pCi/L	62	70	130	5.7	20.1		S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08050619-001AMS	Sample Matrix Spike								
Gross Beta	94	pCi/L	98	70	130				
Sample ID: C08050619-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	91	pCi/L	95	70	130	2.8	15.9		
Method: E901.1							Batch: C_R101877		
Sample ID: LCS-R101877	Laboratory Control Sample								
Cesium 137	1140	pCi/L	20	82	70	130			
Sample ID: MB-R101877	Method Blank								
Gross Gamma	ND	pCi/L							U
Sample ID: R08050321-005H	Sample Duplicate								
Gross Gamma	ND	pCi/L	20				0.0	30	U

Qualifiers:

- - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: C_18688									
Sample ID: C08050913-001IMS	Sample Matrix Spike								
Radium 226	77	pCi/L		98	70	130			06/03/08 08:59
Sample ID: C08050913-001IMSD	Sample Matrix Spike Duplicate								
Radium 226	72	pCi/L		91	70	130	7.4	25.5	06/03/08 08:59
Sample ID: MB-18688	Method Blank								
Radium 226	-0.4	pCi/L							06/03/08 10:37 U
Sample ID: LCS-18688	Laboratory Control Sample								
Radium 226	15	pCi/L		99	70	130			06/03/08 10:37
Method: E903.0 Batch: C_RA226-2839									
Sample ID: C08051073-001AMS	Sample Matrix Spike								
Radium 226	6.7	pCi/L		83	70	130			06/09/08 17:25
Sample ID: C08051073-001AMSD	Sample Matrix Spike Duplicate								
Radium 226	6.9	pCi/L		85	70	130	2.8	23.9	06/09/08 17:25
Sample ID: MB-RA226-2839	Method Blank								
Radium 226	-0.08	pCi/L							06/10/08 09:17 U
Sample ID: LCS-RA226-2839	Laboratory Control Sample								
Radium 226	7.1	pCi/L		90	70	130			06/10/08 09:17
Method: E907.0 Batch: C_18688									
Sample ID: R08050321-001I	Sample Matrix Spike								
Thorium 230	20.6	pCi/L	0.20	88	70	130			05/29/08 15:00
Sample ID: R08050321-001I	Sample Matrix Spike Duplicate								
Thorium 230	22.8	pCi/L	0.20	102	70	130	10	30	05/29/08 15:00
Sample ID: LCS-18688	Laboratory Control Sample								
Thorium 230	51.0	pCi/L	0.20	107	70	130			05/29/08 15:00
Sample ID: MB-18688	Method Blank								
Thorium 230	-0.2	pCi/L							05/29/08 15:00 U

Qualifiers:

L - Analyte reporting limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R102575		
Sample ID: LCS-R102575	Laboratory Control Sample				Run: SUB-C102575			06/04/08 10:00	
Thorium 230	6.60	pCi/L	0.20	94	70	130			
Sample ID: R08050321-004H	Sample Matrix Spike				Run: SUB-C102575			06/04/08 10:00	
Thorium 230	15.5	pCi/L	0.20	96	70	130			
Sample ID: R08050321-004H	Sample Matrix Spike Duplicate				Run: SUB-C102575			06/04/08 10:00	
Thorium 230	13.9	pCi/L	0.20	85	70	130	11	30	
Sample ID: MB-R102575	Method Blank				Run: SUB-C102575			06/04/08 10:00	
Thorium 230	ND	pCi/L							U
Method: E909.0M							Batch: C_R104902		
Sample ID: C08050913-003IMS	Sample Matrix Spike				Run: SUB-C104902			07/03/08 09:50	
Lead 210	1200	pCi/L		105	70	130			
Sample ID: C08050913-003IMSD	Sample Matrix Spike Duplicate				Run: SUB-C104902			07/03/08 09:50	
Lead 210	1000	pCi/L		89	70	130	17	30	
Sample ID: MB-R104902	Method Blank				Run: SUB-C104902			07/03/08 09:50	
Lead 210	1	pCi/L							U
Sample ID: LCS-R104902	Laboratory Control Sample				Run: SUB-C104902			07/03/08 09:50	
Lead 210	61	pCi/L		101	70	130			
Method: E909.0M							Batch: C_R105446		
Sample ID: C08050919-002HMS	Sample Matrix Spike				Run: SUB-C105446			06/25/08 11:25	
Lead 210	550	pCi/L		92	70	130			
Sample ID: C08050919-002HMSD	Sample Matrix Spike Duplicate				Run: SUB-C105446			06/25/08 11:25	
Lead 210	420	pCi/L		71	70	130	26	30	
Sample ID: R08050321-002H	Sample Duplicate				Run: SUB-C105446			06/25/08 11:25	
Lead 210	80	pCi/L					25	30	
Sample ID: MB-R105446	Method Blank				Run: SUB-C105446			06/25/08 11:25	
Lead 210	ND	pCi/L							U
Sample ID: LCS-R105446	Laboratory Control Sample				Run: SUB-C105446			06/25/08 11:25	
Lead 210	140	pCi/L		115	70	130			

Qualifiers:

- - Analyte reporting limit.
 U Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08050321

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R102463		
Sample ID: R08050321-001H	Sample Matrix Spike				Run: SUB-C102463				06/05/08 17:45
Polonium 210	85	pCi/L	1.0	98	70	130			
Sample ID: R08050321-001H	Sample Matrix Spike Duplicate				Run: SUB-C102463				06/05/08 17:45
Polonium 210	87	pCi/L	1.0	100	70	130	1.6	30	
Sample ID: LCS-R102463	Laboratory Control Sample				Run: SUB-C102463				06/05/08 17:45
Polonium 210	42	pCi/L	1.0	96	70	130			
Sample ID: MB-R102463	Method Blank				Run: SUB-C102463				06/05/08 17:45
Polonium 210	ND	pCi/L							U
Method: RMO-3008							Batch: C_R103071		
Sample ID: R08050321-005I	Sample Matrix Spike				Run: SUB-C103071				06/19/08 12:00
Polonium 210	42	pCi/L	1.0	99	70	130			
Sample ID: R08050321-005I	Sample Matrix Spike Duplicate				Run: SUB-C103071				06/19/08 12:00
Polonium 210	52	pCi/L	1.0	124	70	130	21	30	
Sample ID: LCS-R103071	Laboratory Control Sample				Run: SUB-C103071				06/19/08 12:00
Polonium 210	110	pCi/L	1.0	121	70	130			
Sample ID: MB-R103071	Method Blank				Run: SUB-C103071				06/19/08 12:00
Polonium 210	0.5	pCi/L							U

Qualifiers:

- - Analyte reporting limit.
 U Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

Company Name: **RESPEC**
 Report Mail Address: **RESPEC**
 Invoice Address: **RESPEC**

Project Name: **Power Tech Dewey Indeck**
 Contact Name: **Cory Foreman**
 Invoice Contact & Phone: **cory.foreman@respec.com**

State: **SD**
 Email: **cory.foreman@respec.com**

EPA/State Compliance: Yes No
 Sampler: (Please Print) **Eric Kranitz**
 Quoter/Bottle Order:

Special Report/Formats - EII must be notified prior to sample submittal for the following:
 DW A2LA EDD/EDT (Electronic Data)
 GSA POTW/WWTP State: LEVEL IV NELAC
 Other: _____

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Number of Containers		Comments	Contact EII prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by:
				Air/Water/Solids	Vegetation/Biossay/Other			
1 Dew Burd GN696	5/21/08	11:55	W			All groundwater		
2 Dew Burd GN680	5/21/08	12:50	W					
3 Dew Burd GN695	5/21/08	14:45	W					
4 Dew Burd GN694	5/21/08	15:54	W					
5 Dew Burd GN697	5/21/08	16:44	W					
6								
7								
8								
9								
10								

RECEIVED BY: **Steve Foreman** Date/Time: **5-22-08 9:20**
 RECEIVED BY: **Steve Foreman** Date/Time: **5-22-08 9:20**

LABORATORY USE ONLY
 Receipt Temp: **5.2 °C**
 On Ice: Yes No
 Custody Seal: Y N
 Intact: Y N
 Signature Match: Y N

Signature: _____ Date/Time: _____
 Signature: _____ Date/Time: _____
 Signature: _____ Date/Time: _____
 Signature: _____ Date/Time: _____

Sample Disposal: _____ Return to Client: _____ Lab Disposal: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly related on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

July 30, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08050406 Quote ID: R286

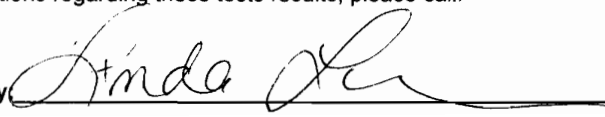
Project Name: Edgemont

Energy Laboratories Inc. received the following 6 samples from RESPEC Inc on 5/29/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050406-001	DewBurd GW698	05/28/08 12:35	05/29/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08050406-002	DewBurd GW698	05/28/08 12:45	05/29/08	Aqueous	Same As Above
R08050406-003	DewBurd GW3026	05/28/08 15:15	05/29/08	Aqueous	Same As Above
R08050406-004	DewBurd GW622	05/28/08 18:26	05/29/08	Aqueous	Same As Above
R08050406-005	DewBurd GW615	05/28/08 19:20	05/29/08	Aqueous	Same As Above
R08050406-006	DewBurd GW689	05/28/08 22:25	05/29/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By 



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-001
 Client Sample ID: DewBurd GW698

Report Date: 07/30/08
 Collection Date: 05/28/08 12:35
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	114	mg/L		5		1	A2320 B	06/02/08 11:18/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:18/mb
Bicarbonate as HCO3	139	mg/L		5		1	A2320 B	06/02/08 11:18/mb
Calcium	382	mg/L		0.5		2	E200.7	06/16/08 17:03/eli-c
Chloride	9	mg/L		1		1	E300.0	05/29/08 14:09/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/29/08 14:09/jmh
Magnesium	137	mg/L		0.5		2	E200.7	06/16/08 17:03/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	06/03/08 13:00/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/29/08 14:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/29/08 14:09/jmh
Potassium	15.5	mg/L		0.5		2	E200.7	06/16/08 17:03/eli-c
Silica	5.2	mg/L		0.5		2	E200.7	06/16/08 17:03/eli-c
Sodium	88	mg/L	D	2		2	E200.7	06/16/08 17:03/eli-c
Sulfate	1270	mg/L	D	3		50	E300.0	05/29/08 13:20/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2280	umhos/cm		5.0		1	A2510 B	05/29/08 15:14/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	06/04/08 00:00/jmh
pH	6.78	s.u.		0.01		1	A4500-H B	05/29/08 14:20/tb
Sodium Adsorption Ratio (SAR)	0.98	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	05/30/08 11:57/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 17:03/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/23/08 02:25/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 17:03/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	06/16/08 17:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/23/08 02:25/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/16/08 17:03/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/23/08 02:25/eli-c
Iron	1.69	mg/L		0.03		2	E200.7	06/16/08 17:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/23/08 02:25/eli-c
Manganese	2.31	mg/L		0.01		1	E200.8	06/24/08 12:31/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/23/08 02:25/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 17:03/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/16/08 17:03/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 15:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/24/08 12:31/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-001
 Client Sample ID: DewBurd GW698

Report Date: 07/30/08
 Collection Date: 05/28/08 12:35
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1 E200.8	06/23/08 02:25/eli-c
Uranium	0.101	mg/L		0.0003		1 E200.8	06/23/08 02:25/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	06/16/08 17:03/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	06/16/08 17:03/eli-c
METALS - SUSPENDED							
Uranium	0.0038	mg/L		0.0003		1 E200.8	06/26/08 00:28/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	06/20/08 10:13/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1210	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Gross Alpha precision (±)	33.2	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Gross Alpha MDC	6.1	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Gross Beta	380	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Gross Beta precision (±)	9.9	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Gross Beta MDC	8.5	pCi/L				1 E900.0	06/26/08 11:24/eli-c
Lead 210	5.5	pCi/L	U			1 E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1 E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	5.0	pCi/L				1 E909.0M	06/17/08 06:30/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1 RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1 RMO-3008	06/16/08 18:00/eli-c
Radium 226	413	pCi/L				1 E903.0	06/16/08 22:01/eli-c
Radium 226 precision (±)	3.7	pCi/L				1 E903.0	06/16/08 22:01/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	06/16/08 13:30/eli-c
Gross Gamma	4100	pCi/L		20		1 E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1 E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	2.6	pCi/L	U			1 E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.6	pCi/L				1 E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L				1 E909.0M	06/11/08 06:30/eli-c
Polonium 210	1.4	pCi/L		1.0		1 RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1 RMO-3008	07/01/08 14:30/eli-c
Radium 226	14.0	pCi/L				1 E903.0	06/17/08 09:14/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-001
 Client Sample ID: DewBurd GW698

Report Date: 07/30/08
 Collection Date: 05/28/08 12:35
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	1.3	pCi/L				1 E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	06/17/08 09:14/eli-c
Thorium 230	0.7	pCi/L		0.2		1 E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	25600	pCi/L		100		1 D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	164	pCi/L				1 D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	06/09/08 02:14/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	06/09/08 02:14/eli-c
Barium	ND	mg/L		0.1		1 E200.8	06/09/08 02:14/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	06/09/08 02:14/eli-c
Boron	0.1	mg/L		0.1		2 E200.7	06/05/08 21:56/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	06/09/08 02:14/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	06/09/08 02:14/eli-c
Copper	ND	mg/L		0.01		1 E200.8	06/09/08 02:14/eli-c
Iron	4.60	mg/L		0.03		2 E200.7	06/05/08 21:56/eli-c
Lead	ND	mg/L		0.001		1 E200.8	06/09/08 02:14/eli-c
Manganese	2.32	mg/L		0.01		1 E200.8	06/09/08 02:14/eli-c
Mercury	ND	mg/L		0.0001		1 E245.1	06/17/08 11:01/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	06/09/08 02:14/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	06/09/08 02:14/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	06/09/08 02:14/eli-c
Silver	ND	mg/L		0.005		1 E200.8	06/17/08 18:54/eli-c
Strontium	4.8	mg/L		0.1		1 E200.8	06/09/08 02:14/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	06/09/08 02:14/eli-c
Uranium	0.116	mg/L		0.0003		1 E200.8	06/09/08 02:14/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	06/09/08 02:14/eli-c
DATA QUALITY							
A/C Balance (± 5)	9.13	%				1 A1030 E	07/18/08 00:00/jmh
Anions	28.9	meq/L				1 A1030 E	07/18/08 00:00/jmh
Cations	34.8	meq/L				1 A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	1980	mg/L				1 A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.09					1 A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-002
 Client Sample ID: DewBurd GW698

Report Date: 07/30/08
 Collection Date: 05/28/08 12:45
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	118	mg/L		5		1	A2320 B	06/02/08 11:23/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:23/mb
Bicarbonate as HCO3	144	mg/L		5		1	A2320 B	06/02/08 11:23/mb
Calcium	375	mg/L		0.5		2	E200.7	06/16/08 17:15/eli-c
Chloride	9	mg/L		1		1	E300.0	05/29/08 14:42/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	05/29/08 14:42/jmh
Magnesium	135	mg/L		0.5		2	E200.7	06/16/08 17:15/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	06/03/08 13:04/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/29/08 14:42/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/29/08 14:42/jmh
Potassium	15.4	mg/L		0.5		2	E200.7	06/16/08 17:15/eli-c
Silica	5.1	mg/L		0.5		2	E200.7	06/16/08 17:15/eli-c
Sodium	87	mg/L	D	2		2	E200.7	06/16/08 17:15/eli-c
Sulfate	1360	mg/L	D	3		50	E300.0	05/29/08 14:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2460	umhos/cm		5.0		1	A2510 B	05/29/08 15:15/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	06/04/08 00:00/jmh
pH	6.75	s.u.		0.01		1	A4500-H B	05/29/08 14:21/tb
Sodium Adsorption Ratio (SAR)	0.98	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C	05/30/08 11:58/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 17:15/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/23/08 02:31/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 17:15/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	06/16/08 17:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/23/08 02:31/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/16/08 17:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/23/08 02:31/eli-c
Iron	1.56	mg/L		0.03		2	E200.7	06/16/08 17:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/23/08 02:31/eli-c
Manganese	2.23	mg/L		0.01		1	E200.8	06/23/08 02:31/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/23/08 02:31/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 17:15/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/16/08 17:15/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 15:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/24/08 12:38/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050406-002
Client Sample ID: DewBurd GW698

Report Date: 07/30/08
Collection Date: 05/28/08 12:45
Date Received: 05/29/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/23/08 02:31/eli-c
Uranium	0.103	mg/L		0.0003		1	E200.8	06/23/08 02:31/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 17:15/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 17:15/eli-c
METALS - SUSPENDED								
Uranium	0.0032	mg/L		0.0003		1	E200.8	06/26/08 00:35/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:19/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1390	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Alpha precision (±)	35.6	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Alpha MDC	6.1	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta	383	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta precision (±)	9.9	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta MDC	8.5	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Lead 210	9.4	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	412	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Radium 226 precision (±)	3.7	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/16/08 13:30/eli-c
Gross Gamma	3500	pCi/L		20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	9.0	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	0.88	pCi/L				1	RMO-3008	07/01/08 14:30/eli-c
Radium 226	13.5	pCi/L				1	E903.0	06/17/08 09:14/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

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ND - Not detected at the reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-002
 Client Sample ID: DewBurd GW698

Report Date: 07/30/08
 Collection Date: 05/28/08 12:45
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	1.2	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Thorium 230	0.5	pCi/L		0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	22400	pCi/L		100			1	D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	153	pCi/L					1	D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/09/08 02:21/eli-c
Arsenic	0.003	mg/L		0.001			1	E200.8	06/09/08 02:21/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/09/08 02:21/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 02:21/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/05/08 22:04/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/09/08 02:21/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/09/08 02:21/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/09/08 02:21/eli-c
Iron	4.88	mg/L		0.03			2	E200.7	06/05/08 22:04/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/09/08 02:21/eli-c
Manganese	2.45	mg/L		0.01			1	E200.8	06/09/08 02:21/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:03/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/09/08 02:21/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/09/08 02:21/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/09/08 02:21/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 19:28/eli-c
Strontium	5.0	mg/L		0.1			1	E200.8	06/09/08 02:21/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/09/08 02:21/eli-c
Uranium	0.119	mg/L		0.0003			1	E200.8	06/09/08 02:21/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/09/08 02:21/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.02	%					1	A1030 E	07/18/08 00:00/jmh
Anions	30.9	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	34.2	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	2060	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.04						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-003
 Client Sample ID: DewBurd GW3026

Report Date: 07/30/08
 Collection Date: 05/28/08 15:15
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B 06/02/08 11:25/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 06/02/08 11:25/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B 06/02/08 11:25/mb
Calcium	407	mg/L		0.5		2	E200.7 06/16/08 17:23/eli-c
Chloride	15	mg/L		1		1	E300.0 05/29/08 15:15/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 05/29/08 15:15/jmh
Magnesium	105	mg/L		0.5		2	E200.7 06/16/08 17:23/eli-c
Nitrogen, Ammonia as N	0.7	mg/L		0.1		1	A4500-NH3 G 06/03/08 13:05/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 05/29/08 15:15/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 05/29/08 15:15/jmh
Potassium	25.3	mg/L		0.5		2	E200.7 06/16/08 17:23/eli-c
Silica	2.3	mg/L		0.5		2	E200.7 06/16/08 17:23/eli-c
Sodium	209	mg/L	D	2		2	E200.7 06/16/08 17:23/eli-c
Sulfate	1480	mg/L	D	3		50	E300.0 05/29/08 14:58/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2610	umhos/cm		5.0		1	A2510 B 05/29/08 15:17/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B 06/04/08 00:00/jmh
pH	6.95	s.u.		0.01		1	A4500-H B 05/29/08 14:21/tb
Sodium Adsorption Ratio (SAR)	2.4	unitless		0.10		1	Calculation 07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	2400	mg/L		5		1	A2540 C 05/30/08 11:58/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 06/16/08 17:23/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 06/23/08 02:58/eli-c
Barium	ND	mg/L		0.1		2	E200.7 06/16/08 17:23/eli-c
Boron	0.2	mg/L		0.1		2	E200.7 06/16/08 17:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 06/23/08 02:58/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 06/16/08 17:23/eli-c
Copper	ND	mg/L		0.01		1	E200.8 06/23/08 02:58/eli-c
Iron	0.23	mg/L		0.03		2	E200.7 06/16/08 17:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8 06/23/08 02:58/eli-c
Manganese	0.82	mg/L		0.01		1	E200.8 06/23/08 02:58/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 06/23/08 02:58/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 06/16/08 17:23/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 06/16/08 17:23/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 06/20/08 15:25/eli-c
Silver	ND	mg/L		0.005		1	E200.8 06/24/08 13:05/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-003
 Client Sample ID: DewBurd GW3026

Report Date: 07/30/08
 Collection Date: 05/28/08 15:15
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/23/08 02:58/eli-c
Uranium	0.0281	mg/L		0.0003		1	E200.8	06/23/08 02:58/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 17:23/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 17:23/eli-c
METALS - SUSPENDED								
Uranium	0.0013	mg/L		0.0003		1	E200.8	06/26/08 00:41/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:21/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	92.4	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Alpha precision (±)	10.5	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Alpha MDC	6.9	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta	28.3	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta precision (±)	5.6	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta MDC	8.6	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Lead 210	-0.7	pCi/L	U			1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	9.6	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/16/08 13:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.0	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.6	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	07/01/08 14:30/eli-c
Radium 226	1.2	pCi/L				1	E903.0	06/17/08 09:14/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-003
 Client Sample ID: DewBurd GW3026

Report Date: 07/30/08
 Collection Date: 05/28/08 15:15
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	06/17/08 09:14/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	213	pCi/L		100		1	D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	37.0	pCi/L				1	D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	06/09/08 02:48/eli-c
Arsenic	0.028	mg/L		0.001		1	E200.8	06/09/08 02:48/eli-c
Barium	ND	mg/L		0.1		1	E200.8	06/09/08 02:48/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	06/09/08 02:48/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	06/05/08 22:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/09/08 02:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	06/09/08 02:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/09/08 02:48/eli-c
Iron	11.1	mg/L		0.03		2	E200.7	06/05/08 22:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/09/08 02:48/eli-c
Manganese	0.87	mg/L		0.01		1	E200.8	06/09/08 02:48/eli-c
Mercury	ND	mg/L		0.0001		1	E245.1	06/17/08 11:06/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	06/09/08 02:48/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	06/09/08 02:48/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	06/09/08 02:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/17/08 19:34/eli-c
Strontium	7.0	mg/L		0.1		1	E200.8	06/09/08 02:48/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	06/09/08 02:48/eli-c
Uranium	0.0322	mg/L		0.0003		1	E200.8	06/09/08 02:48/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	06/09/08 02:48/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.90	%				1	A1030 E	07/18/08 00:00/jmh
Anions	34.5	meq/L				1	A1030 E	07/18/08 00:00/jmh
Cations	38.8	meq/L				1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	2340	mg/L				1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03					1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050406-004
Client Sample ID: DewBurd GW622

Report Date: 07/30/08
Collection Date: 05/28/08 18:26
Date Received: 05/29/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	06/02/08 11:27/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:27/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	06/02/08 11:27/mb
Calcium	97.5	mg/L		0.5		2	E200.7	06/16/08 17:27/eli-c
Chloride	10	mg/L		1		1	E300.0	05/29/08 15:47/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/29/08 15:47/jmh
Magnesium	32.7	mg/L		0.5		2	E200.7	06/16/08 17:27/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/03/08 13:06/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/29/08 15:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/29/08 15:47/jmh
Potassium	10.6	mg/L		0.5		2	E200.7	06/16/08 17:27/eli-c
Silica	4.0	mg/L		0.5		2	E200.7	06/16/08 17:27/eli-c
Sodium	182	mg/L	D	2		2	E200.7	06/16/08 17:27/eli-c
Sulfate	493	mg/L	D	3		50	E300.0	05/29/08 15:31/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1220	umhos/cm		5.0		1	A2510 B	05/29/08 15:18/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	06/04/08 00:00/jmh
pH	7.52	s.u.		0.01		1	A4500-H B	05/29/08 14:23/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5		1	A2540 C	05/30/08 12:00/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 17:27/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/23/08 03:05/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 17:27/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/16/08 17:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/23/08 03:05/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/16/08 17:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/23/08 03:05/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/16/08 17:27/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	06/23/08 03:05/eli-c
Manganese	0.20	mg/L		0.01		2	E200.7	06/16/08 17:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/23/08 03:05/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 17:27/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/16/08 17:27/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 15:27/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/24/08 13:12/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-004
 Client Sample ID: DewBurd GW622

Report Date: 07/30/08
 Collection Date: 05/28/08 18:26
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/23/08 03:05/eli-c
Uranium	0.0056	mg/L		0.0003		1	E200.8	06/23/08 03:05/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 17:27/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 17:27/eli-c
METALS - SUSPENDED								
Uranium	0.0005	mg/L		0.0003		1	E200.8	06/26/08 00:48/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:23/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	32.6	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Alpha MDC	2.8	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta	11.9	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Gross Beta MDC	3.2	pCi/L				1	E900.0	06/26/08 11:24/eli-c
Lead 210	1.2	pCi/L	U			1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	-0.3	pCi/L	U	1.0		1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	3.2	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/16/08 13:30/eli-c
Gross Gamma	150	pCi/L		20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	46	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.9	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	2.5	pCi/L		1.0		1	RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	07/01/08 14:30/eli-c
Radium 226	1.0	pCi/L				1	E903.0	06/17/08 09:14/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050406-004
Client Sample ID: DewBurd GW622

Report Date: 07/30/08
Collection Date: 05/28/08 18:26
Date Received: 05/29/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.6	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	804	pCi/L		100			1	D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	43.3	pCi/L					1	D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/09/08 02:55/eli-c
Arsenic	0.006	mg/L		0.001			1	E200.8	06/09/08 02:55/eli-c
Barium	0.2	mg/L		0.1			1	E200.8	06/09/08 02:55/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 02:55/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	06/05/08 22:48/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/09/08 02:55/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/09/08 02:55/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/09/08 02:55/eli-c
Iron	10.7	mg/L		0.03			2	E200.7	06/05/08 22:48/eli-c
Lead	0.023	mg/L		0.001			1	E200.8	06/09/08 02:55/eli-c
Manganese	0.25	mg/L		0.01			1	E200.8	06/09/08 02:55/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:13/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/09/08 02:55/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/09/08 02:55/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/09/08 02:55/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 19:41/eli-c
Strontium	1.6	mg/L		0.1			1	E200.8	06/09/08 02:55/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/09/08 02:55/eli-c
Uranium	0.0068	mg/L		0.0003			1	E200.8	06/09/08 02:55/eli-c
Zinc	0.25	mg/L		0.01			1	E200.8	06/09/08 02:55/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.53	%					1	A1030 E	07/18/08 00:00/jmh
Anions	14.1	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	15.8	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	944	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050406-005
Client Sample ID: DewBurd GW615

Report Date: 07/30/08
Collection Date: 05/28/08 19:20
Date Received: 05/29/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B	06/02/08 11:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:30/mb
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B	06/02/08 11:30/mb
Calcium	79.2	mg/L		0.5		2	E200.7	06/16/08 17:31/eli-c
Chloride	5	mg/L		1		1	E300.0	05/29/08 16:20/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/29/08 16:20/jmh
Magnesium	23.2	mg/L		0.5		2	E200.7	06/16/08 17:31/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/03/08 13:07/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/29/08 16:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/29/08 16:20/jmh
Potassium	9.0	mg/L		0.5		2	E200.7	06/16/08 17:31/eli-c
Silica	4.4	mg/L		0.5		2	E200.7	06/16/08 17:31/eli-c
Sodium	134	mg/L	D	2		2	E200.7	06/16/08 17:31/eli-c
Sulfate	399	mg/L	D	3		50	E300.0	05/29/08 16:04/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1050	umhos/cm		5.0		1	A2510 B	05/29/08 15:20/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	06/04/08 00:00/jmh
pH	7.16	s.u.		0.01		1	A4500-H B	05/29/08 14:25/tb
Sodium Adsorption Ratio (SAR)	3.4	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	710	mg/L		5		1	A2540 C	05/30/08 12:01/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 17:31/eli-c
Arsenic	0.013	mg/L		0.001		1	E200.8	06/23/08 03:12/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 17:31/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/16/08 17:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/23/08 03:12/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/16/08 17:31/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/23/08 03:12/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	06/16/08 17:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/23/08 03:12/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	06/23/08 03:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/23/08 03:12/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 17:31/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/16/08 17:31/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 15:29/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/24/08 13:19/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-005
 Client Sample ID: DewBurd GW615

Report Date: 07/30/08
 Collection Date: 05/28/08 19:20
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/23/08 03:12/eli-c
Uranium	0.0024	mg/L		0.0003		1	E200.8	06/23/08 03:12/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 17:31/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 17:31/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/26/08 00:55/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:25/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	15.3	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Alpha MDC	2.1	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Beta	3.7	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Beta precision (±)	1.8	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Beta MDC	2.8	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Lead 210	3.8	pCi/L	U			1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	2.0	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/16/08 13:30/eli-c
Gross Gamma	170	pCi/L		20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	46	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.5	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	06/17/08 09:14/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-005
 Client Sample ID: DewBurd GW615

Report Date: 07/30/08
 Collection Date: 05/28/08 19:20
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		DF	Method	Analysis Date / By
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.6	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1070	pCi/L		100			1	D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	45.9	pCi/L					1	D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/09/08 03:02/eli-c
Arsenic	0.024	mg/L		0.001			1	E200.8	06/09/08 03:02/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/09/08 03:02/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 03:02/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	06/05/08 22:53/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/09/08 03:02/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/09/08 03:02/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/09/08 03:02/eli-c
Iron	1.40	mg/L		0.03			2	E200.7	06/05/08 22:53/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/09/08 03:02/eli-c
Manganese	0.07	mg/L		0.01			1	E200.8	06/09/08 03:02/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:15/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/09/08 03:02/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/09/08 03:02/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/09/08 03:02/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 19:48/eli-c
Strontium	1.4	mg/L		0.1			1	E200.8	06/09/08 03:02/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/09/08 03:02/eli-c
Uranium	0.0025	mg/L		0.0003			1	E200.8	06/09/08 03:02/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/09/08 03:02/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.00	%					1	A1030 E	07/18/08 00:00/jmh
Anions	11.2	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	11.9	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	745	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-006
 Client Sample ID: DewBurd GW689

Report Date: 07/30/08
 Collection Date: 05/28/08 22:25
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	06/02/08 11:40/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:40/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	06/02/08 11:40/mb
Calcium	49.2	mg/L		0.5		2	E200.7	06/16/08 17:35/eli-c
Chloride	5	mg/L		1		1	E300.0	05/29/08 17:59/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/29/08 17:59/jmh
Magnesium	16.4	mg/L		0.5		2	E200.7	06/16/08 17:35/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/03/08 13:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/29/08 17:59/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/29/08 17:59/jmh
Potassium	8.1	mg/L		0.5		2	E200.7	06/16/08 17:35/eli-c
Silica	4.6	mg/L		0.5		2	E200.7	06/16/08 17:35/eli-c
Sodium	184	mg/L	D	2		2	E200.7	06/16/08 17:35/eli-c
Sulfate	400	mg/L	D	3		50	E300.0	05/29/08 17:10/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1010	umhos/cm		5.0		1	A2510 B	05/29/08 15:23/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	06/04/08 00:00/jmh
pH	7.80	s.u.		0.01		1	A4500-H B	05/29/08 14:26/tb
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	730	mg/L		5		1	A2540 C	05/30/08 12:02/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 17:35/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	06/23/08 03:19/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 17:35/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/16/08 17:35/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/23/08 03:19/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/16/08 17:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/23/08 03:19/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/16/08 17:35/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/23/08 03:19/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	06/16/08 17:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/23/08 03:19/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 17:35/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/16/08 17:35/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 15:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/24/08 13:26/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-006
 Client Sample ID: DewBurd GW689

Report Date: 07/30/08
 Collection Date: 05/28/08 22:25
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/23/08 03:19/eli-c
Uranium	0.0043	mg/L		0.0003		1	E200.8	06/23/08 03:19/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 17:35/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 17:35/eli-c
METALS - SUSPENDED								
Uranium	0.0004	mg/L		0.0003		1	E200.8	06/26/08 01:01/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:27/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	34.9	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Alpha MDC	2.2	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Beta	12.2	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Beta precision (±)	1.9	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Gross Beta MDC	2.9	pCi/L				1	E900.0	06/27/08 00:01/eli-c
Lead 210	6.3	pCi/L	U			1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	-0.4	pCi/L	U	1.0		1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	5.7	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	06/16/08 22:01/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/16/08 13:30/eli-c
Gross Gamma	150	pCi/L		20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	40	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	0.5	pCi/L	U			1	E903.0	06/17/08 09:14/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050406-006
 Client Sample ID: DewBurd GW689

Report Date: 07/30/08
 Collection Date: 05/28/08 22:25
 Date Received: 05/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/17/08 09:14/eli-c
Thorium 230	0.4	pCi/L		0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1390	pCi/L		100			1	D5072-92	05/31/08 02:56/eli-c
Radon 222 precision (±)	48.3	pCi/L					1	D5072-92	05/31/08 02:56/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/09/08 03:08/eli-c
Arsenic	0.004	mg/L		0.001			1	E200.8	06/09/08 03:08/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/09/08 03:08/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/09/08 03:08/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	06/05/08 22:57/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/09/08 03:08/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/09/08 03:08/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/09/08 03:08/eli-c
Iron	1.33	mg/L		0.03			2	E200.7	06/05/08 22:57/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/09/08 03:08/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	06/09/08 03:08/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:17/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/09/08 03:08/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/09/08 03:08/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/09/08 03:08/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 19:55/eli-c
Strontium	1.0	mg/L		0.1			1	E200.8	06/09/08 03:08/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/09/08 03:08/eli-c
Uranium	0.0117	mg/L		0.0003			1	E200.8	06/09/08 03:08/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/09/08 03:08/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.36	%					1	A1030 E	07/18/08 00:00/jmh
Anions	11.5	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	12.0	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	764	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A2320 B							Batch: 080602A-ALK-SEL-W			
Sample ID: LCS1_080602A	Laboratory Control Sample					Run: PH_COND1-R_080602A			06/02/08 10:56	
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110				
Sample ID: MBLK1_080602A	Method Blank					Run: PH_COND1-R_080602A			06/02/08 12:28	
Alkalinity, Total as CaCO3	ND	mg/L	3							
Sample ID: R08050406-005AMS	Sample Matrix Spike					Run: PH_COND1-R_080602A			06/02/08 11:35	
Alkalinity, Total as CaCO3	242	mg/L	5.0	98	80	120				
Sample ID: R08050406-005AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_080602A			06/02/08 11:38	
Alkalinity, Total as CaCO3	244	mg/L	5.0	100	80	120	0.8	10		
Method: A2510 B							Batch: 080529_1_COND-PROBE-W			
Sample ID: LCS_COND-1_080529	Laboratory Control Sample					Run: PH_COND2-R_080529C			05/29/08 15:04	
Conductivity @ 25 C	1390	umhos/cm	5.0	98	90	110				
Sample ID: LCS1-1_080529	Laboratory Control Sample					Run: PH_COND2-R_080529C			05/29/08 15:02	
Conductivity @ 25 C	153	umhos/cm	5.0	102	90	110				
Sample ID: LCS2-1_080529	Laboratory Control Sample					Run: PH_COND2-R_080529C			05/29/08 15:01	
Conductivity @ 25 C	4890	umhos/cm	5.0	98	90	110				
Sample ID: R08050406-005ADUP	Sample Duplicate					Run: PH_COND2-R_080529C			05/29/08 15:22	
Conductivity @ 25 C	1040	umhos/cm	5.0				1.0	10		
Method: A2540 C							Batch: 080530A-SLDS-TDS-W			
Sample ID: LCS1_080530A	Laboratory Control Sample					Run: BAL-4-R_080530A			05/30/08 11:44	
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110				
Sample ID: MBLK1_080530A	Method Blank					Run: BAL-4-R_080530A			05/30/08 11:45	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3							
Sample ID: R08050406-003AMS	Sample Matrix Spike					Run: BAL-4-R_080530A			05/30/08 11:59	
Solids, Total Dissolved TDS @ 180 C	2700	mg/L	5.0	147	80	120			S	
Sample ID: R08050406-003AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080530A			05/30/08 12:00	
Solids, Total Dissolved TDS @ 180 C	2700	mg/L	5.0	135	80	120	0.9	10	S	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080604-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_080604B			06/04/08 00:00
Oxidation-Reduction Potential	470	mV		100	95	105			
Sample ID: R08050406-001F	Sample Duplicate					Run: PH_COND1-R_080604B			06/04/08 00:00
Oxidation-Reduction Potential	210	mV					3.2	10	
Method: A3114 B							Batch: C_SE3114-080620A		
Sample ID: 288-92-2	Laboratory Control Sample					Run: SUB-C102993			06/20/08 10:11
Selenium-IV	0.049	mg/L	0.0010	99	90	110			
Sample ID: R08050356-001A	Sample Matrix Spike					Run: SUB-C102993			06/20/08 10:45
Selenium-IV	0.069	mg/L	0.0010	137	85	115			S
Sample ID: R08050356-001A	Sample Matrix Spike Duplicate					Run: SUB-C102993			06/20/08 10:48
Selenium-IV	0.075	mg/L	0.0010	151	85	115	9.3	10	S
Method: A3114 B							Batch: C_SE3114-080620C		
Sample ID: MBLK	Method Blank					Run: SUB-C103018			06/20/08 15:10
Selenium	ND	mg/L	6E-05						
Sample ID: 288-92-2	Laboratory Control Sample					Run: SUB-C103018			06/20/08 15:14
Selenium	0.049	mg/L	0.0010	99	90	110			
Sample ID: R08050356-001A	Sample Matrix Spike					Run: SUB-C103018			06/20/08 15:48
Selenium	0.073	mg/L	0.0010	146	85	115			S
Sample ID: R08050356-001A	Sample Matrix Spike Duplicate					Run: SUB-C103018			06/20/08 15:50
Selenium	0.073	mg/L	0.0010	145	85	115	0.0	10	S
Method: A4500-H B							Batch: 080529_1_PH-W		
Sample ID: LCS_pH-1_080529	Laboratory Control Sample					Run: PH_COND2-R_080529A			05/29/08 14:07
pH	6.92	s.u.	0.010	101	98.55	101.45			
Sample ID: R08050406-003ADUP	Sample Duplicate					Run: PH_COND2-R_080529A			05/29/08 14:24
pH	6.99	s.u.	0.010				0.6	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-06-03_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01				Run: TECHAA2-R_080603A		06/03/08 11:58
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110	Run: TECHAA2-R_080603A		06/03/08 12:01
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110	Run: TECHAA2-R_080603A		06/03/08 12:14
Sample ID: R08050406-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.45	mg/L	0.10	110	80	120	Run: TECHAA2-R_080603A		06/03/08 13:03
Sample ID: R08050419-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.48	mg/L	0.10	104	80	120	Run: TECHAA2-R_080603A		06/03/08 13:13
Sample ID: R08050419-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.45	mg/L	0.10	90	80	120	Run: TECHAA2-R_080603A	7.5	06/03/08 13:14 10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102753		
Sample ID: MB-080616A	Method Blank		Run: SUB-C102753			06/16/08 15:33			
Silica	ND	mg/L	0.02						
Aluminum	0.01	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.02	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	0.005	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Zinc	0.002	mg/L	0.002						
Sample ID: LFB-080616A	Laboratory Fortified Blank		Run: SUB-C102753			06/16/08 15:37			
Silica	0.37	mg/L	0.10	92	85	125			
Aluminum	0.99	mg/L	0.10	98	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.00	mg/L	0.10	98	85	125			
Calcium	53	mg/L	0.50	105	85	125			
Chromium	1.0	mg/L	0.050	101	85	125			
Iron	1.1	mg/L	0.030	111	85	125			
Magnesium	52	mg/L	0.50	104	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	0.98	mg/L	0.10	98	85	125			
Nickel	1.0	mg/L	0.050	100	85	125			
Potassium	46	mg/L	0.50	91	85	125			
Sodium	51	mg/L	0.77	102	85	125			
Vanadium	1.0	mg/L	0.10	104	85	125			
Zinc	1.0	mg/L	0.010	100	85	125			
Sample ID: C08060096-002CMS2	Sample Matrix Spike		Run: SUB-C102753			06/16/08 18:08			
Aluminum	1.95	mg/L	0.10	98	70	130			
Barium	2.08	mg/L	0.10	104	70	130			
Boron	2.10	mg/L	0.10	102	70	130			
Chromium	2.09	mg/L	0.050	104	70	130			
Iron	2.14	mg/L	0.030	106	70	130			
Manganese	2.13	mg/L	0.010	103	70	130			
Molybdenum	2.00	mg/L	0.10	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102753		
Sample ID: C08060096-002CMS2	Sample Matrix Spike			Run: SUB-C102753			06/16/08 18:08		
Nickel	2.06	mg/L	0.050	103	70	130			
Vanadium	2.12	mg/L	0.10	104	70	130			
Zinc	2.10	mg/L	0.010	104	70	130			
Calcium	141	mg/L	1.0	102	70	130			
Magnesium	117	mg/L	1.0	104	70	130			
Potassium	98.4	mg/L	1.0	92	70	130			
Silica	4.58	mg/L	0.10		70	130			A
Sodium	372	mg/L	1.5	95	70	130			
Sample ID: C08060096-002CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C102753			06/16/08 18:12		
Aluminum	1.98	mg/L	0.10	99	70	130	1.6	20	
Barium	2.12	mg/L	0.10	106	70	130	2.0	20	
Boron	2.16	mg/L	0.10	105	70	130	2.9	20	
Chromium	2.13	mg/L	0.050	106	70	130	1.9	20	
Iron	2.16	mg/L	0.030	108	70	130	1.2	20	
Manganese	2.17	mg/L	0.010	105	70	130	1.9	20	
Molybdenum	2.06	mg/L	0.10	103	70	130	3.2	20	
Nickel	2.12	mg/L	0.050	106	70	130	2.4	20	
Vanadium	2.21	mg/L	0.10	108	70	130	4.1	20	
Zinc	2.15	mg/L	0.010	106	70	130	2.4	20	
Calcium	145	mg/L	1.0	106	70	130	2.7	20	
Magnesium	121	mg/L	1.0	107	70	130	2.7	20	
Potassium	99.1	mg/L	1.0	92	70	130	0.7	20	
Silica	4.65	mg/L	0.10		70	130	1.3	20	A
Sodium	369	mg/L	1.5	92	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: LRB	Method Blank		Run: SUB-C103038			06/22/08 13:02			
Arsenic	ND	mg/L	6E-05						
Cadmium	2E-05	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Thorium 232	8E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C103038			06/22/08 14:35			
Arsenic	0.0517	mg/L	0.0010	103	85	115			
Cadmium	0.0524	mg/L	0.0010	105	85	115			
Copper	0.0516	mg/L	0.0010	103	85	115			
Lead	0.0527	mg/L	0.0010	105	85	115			
Manganese	0.0530	mg/L	0.0010	106	85	115			
Mercury	0.00507	mg/L	0.0010	101	85	115			
Thorium 232	0.0520	mg/L	0.0010	104	85	115			
Uranium	0.0525	mg/L	0.00030	105	85	115			
Sample ID: R08050419-003C	Post Digestion Spike		Run: SUB-C103038			06/22/08 19:53			
Arsenic	0.0536	mg/L	0.0010	106	70	130			
Cadmium	0.0507	mg/L	0.010	101	70	130			
Copper	0.0505	mg/L	0.010	100	70	130			
Lead	0.0543	mg/L	0.050	109	70	130			
Manganese	0.136	mg/L	0.010	100	70	130			
Mercury	0.00517	mg/L	0.0010	103	70	130			
Thorium 232	0.0561	mg/L	0.0010	112	70	130			
Uranium	0.0558	mg/L	0.00030	111	70	130			
Sample ID: R08050419-003C	Post Digestion Spike Duplicate		Run: SUB-C103038			06/22/08 20:00			
Arsenic	0.0548	mg/L	0.0010	108	70	130	2.2	20	
Cadmium	0.0519	mg/L	0.010	104	70	130	2.3	20	
Copper	0.0510	mg/L	0.010	101	70	130	0.8	20	
Lead	0.0549	mg/L	0.050	110	70	130	1.2	20	
Manganese	0.138	mg/L	0.010	103	70	130	0.9	20	
Mercury	0.00531	mg/L	0.0010	106	70	130	2.7	20	
Thorium 232	0.0571	mg/L	0.0010	114	70	130	1.8	20	
Uranium	0.0567	mg/L	0.00030	113	70	130	1.7	20	
Sample ID: C08060423-001BMS	Sample Matrix Spike		Run: SUB-C103038			06/23/08 02:04			
Arsenic	0.0502	mg/L	0.0010	91	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: C08060423-001BMS	Sample Matrix Spike			Run: SUB-C103038			06/23/08 02:04		
Cadmium	0.0433	mg/L	0.0010	87	70	130			
Copper	0.0491	mg/L	0.0010	95	70	130			
Lead	0.0532	mg/L	0.0010	105	70	130			
Manganese	0.0789	mg/L	0.0010	93	70	130			
Mercury	0.00506	mg/L	0.0010	101	70	130			
Thorium 232	0.0551	mg/L	0.0010	109	70	130			
Uranium	0.0552	mg/L	0.00030	110	70	130			
Sample ID: C08060423-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C103038			06/23/08 02:11		
Arsenic	0.0527	mg/L	0.0010	96	70	130	4.9	20	
Cadmium	0.0451	mg/L	0.0010	90	70	130	4.1	20	
Copper	0.0526	mg/L	0.0010	102	70	130	6.9	20	
Lead	0.0559	mg/L	0.0010	110	70	130	4.9	20	
Manganese	0.0827	mg/L	0.0010	101	70	130	4.7	20	
Mercury	0.00530	mg/L	0.0010	106	70	130	4.7	20	
Thorium 232	0.0588	mg/L	0.0010	117	70	130	6.5	20	
Uranium	0.0583	mg/L	0.00030	116	70	130	5.5	20	
Method: E200.8							Batch: C_R103200		
Sample ID: LRB	Method Blank			Run: SUB-C103200			06/24/08 11:37		
Manganese	ND	mg/L	5E-05						
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C103200			06/24/08 11:44		
Manganese	0.0499	mg/L	0.0010	100	85	115			
Silver	0.0200	mg/L	0.0010	100	85	115			
Sample ID: C08060096-004CMS4	Post Digestion Spike			Run: SUB-C103200			06/24/08 13:59		
Manganese	1.01	mg/L	0.010		70	130			A
Silver	0.0131	mg/L	0.010	66	70	130			S
Sample ID: C08060096-004CMSD4	Post Digestion Spike Duplicate			Run: SUB-C103200			06/24/08 14:26		
Manganese	0.994	mg/L	0.010		70	130	1.9	20	A
Silver	0.0127	mg/L	0.010	63	70	130	3.6	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: C_B_33012		
Sample ID: B08060960-003CMS	Sample Matrix Spike					Run: SUB-C102832			06/17/08 09:36
Mercury	0.0019	mg/L	0.0010	90	70	130			
Sample ID: B08060960-003CMSD	Sample Matrix Spike Duplicate					Run: SUB-C102832			06/17/08 09:39
Mercury	0.0020	mg/L	0.0010	95	70	130	4.7	30	
Sample ID: MB-33012	Method Blank					Run: SUB-C102832			06/17/08 09:25
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33012	Laboratory Fortified Blank					Run: SUB-C102832			06/17/08 09:28
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: B08060966-003BMS	Sample Matrix Spike					Run: SUB-C102832			06/17/08 11:27
Mercury	0.0017	mg/L	0.0010	86	70	130			
Sample ID: B08060966-003BMSD	Sample Matrix Spike Duplicate					Run: SUB-C102832			06/17/08 11:29
Mercury	0.0017	mg/L	0.0010	83	70	130	3.6	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35055		
Sample ID: LFB0805292120-1	Laboratory Fortified Blank			Run: DIONEX_080530A			05/29/08 12:14		
Chloride	4.69	mg/L	0.50	94	90	110			
Fluoride	1.81	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.25	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.34	mg/L	0.10	94	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: LFB0805292120-4	Laboratory Fortified Blank			Run: DIONEX_080530A			05/29/08 13:03		
Chloride	4.87	mg/L	0.50	97	90	110			
Fluoride	1.84	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: R08050406-001AMS	Sample Matrix Spike			Run: DIONEX_080530A			05/29/08 13:36		
Chloride	252	mg/L	5.4	86	80	120			
Fluoride	92.0	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	121	mg/L	2.9	97	80	120			
Sulfate	1920	mg/L	3.4	88	80	120			
Sample ID: R08050406-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080530A			05/29/08 13:53		
Chloride	247	mg/L	5.4	84	80	120	2.2	10	
Fluoride	89.8	mg/L	0.56	83	80	120	2.4	10	
Nitrogen, Nitrate as N	113	mg/L	1.3	91	80	120	2.7	10	
Nitrogen, Nitrite as N	118	mg/L	2.9	94	80	120	2.5	10	
Sulfate	1890	mg/L	3.4	83	80	120	1.9	10	
Sample ID: R08050406-006AMS	Sample Matrix Spike			Run: DIONEX_080530A			05/29/08 17:26		
Chloride	237	mg/L	5.4	86	80	120			
Fluoride	92.5	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	121	mg/L	2.9	97	80	120			
Sulfate	1010	mg/L	3.4	82	80	120			
Sample ID: R08050406-006AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080530A			05/29/08 17:42		
Chloride	238	mg/L	5.4	86	80	120	0.5	10	
Fluoride	93.0	mg/L	0.56	86	80	120	0.5	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	93	80	120	0.4	10	
Nitrogen, Nitrite as N	122	mg/L	2.9	97	80	120	0.5	10	
Sulfate	1000	mg/L	3.4	81	80	120	1.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E900.0							Batch: C_GrAB-0465			
Sample ID: MB-GrAB-0465	Method Blank					Run: SUB-C103416			06/26/08 11:24	
Gross Alpha	0.5	pCi/L								
Gross Beta	-2	pCi/L								
Sample ID: UNAT-GrAB-0465	Laboratory Control Sample					Run: SUB-C103416			06/26/08 11:24	
Gross Alpha	150	pCi/L	106		70	130				
Sample ID: C08060007-003EMS	Sample Matrix Spike					Run: SUB-C103416			06/26/08 11:24	
Gross Alpha	240	pCi/L	98		70	130				
Sample ID: C08060007-003EMSD	Sample Matrix Spike Duplicate					Run: SUB-C103416			06/26/08 11:24	
Gross Alpha	230	pCi/L	90		70	130	4.7	15.3		
Method: E903.0							Batch: C_18760			
Sample ID: C08051260-001IMS	Sample Matrix Spike					Run: SUB-C102780			06/17/08 09:14	
Radium 226	34	pCi/L	108		70	130				
Sample ID: C08051260-001IMSD	Sample Matrix Spike Duplicate					Run: SUB-C102780			06/17/08 09:14	
Radium 226	32	pCi/L	97		70	130	6.8	21.5		
Sample ID: MB-18760	Method Blank					Run: SUB-C102780			06/17/08 10:48	
Radium 226	-2	pCi/L							U	
Sample ID: LCS-18760	Laboratory Control Sample					Run: SUB-C102780			06/17/08 10:48	
Radium 226	17	pCi/L	111		70	130				
Method: E907.0							Batch: C_18760			
Sample ID: R08050419-002I	Sample Matrix Spike					Run: SUB-C103470			06/13/08 13:30	
Thorium 230	22.2	pCi/L	0.20	95	70	130				
Sample ID: R08050419-002I	Sample Matrix Spike Duplicate					Run: SUB-C103470			06/13/08 13:30	
Thorium 230	22.6	pCi/L	0.20	98	70	130	1.8	30		
Method: E907.0							Batch: C_R103514			
Sample ID: C08060096-003HMS	Sample Matrix Spike					Run: SUB-C103514			06/16/08 13:30	
Thorium 230	12.4	pCi/L	0.20	102	70	130				
Sample ID: C08060096-003HMSD	Sample Matrix Spike Duplicate					Run: SUB-C103514			06/16/08 13:30	
Thorium 230	11.0	pCi/L	0.20	90	70	130	12	30		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050406

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_18760		
Sample ID: C08051260-002IMS	Sample Matrix Spike				Run: SUB-C103520		06/11/08 06:30		
Lead 210	3000	pCi/L		127	70	130			
Sample ID: C08051260-002IMSD	Sample Matrix Spike Duplicate				Run: SUB-C103520		06/11/08 06:30		
Lead 210	2100	pCi/L		89	70	130	35	30	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Method: RMO-3008							Batch: C_18760		
Sample ID: C08060130-004FMS	Sample Matrix Spike				Run: SUB-C103721		06/25/08 17:27		
Polonium 210	51	pCi/L	1.0	117	70	130			
Sample ID: C08060130-004FMDS	Sample Matrix Spike Duplicate				Run: SUB-C103721		06/25/08 17:27		
Polonium 210	48	pCi/L	1.0	109	70	130	6.9	30	
Method: RMO-3008							Batch: C_R103750		
Sample ID: R08050356-004K	Sample Matrix Spike				Run: SUB-C103750		07/01/08 14:30		
Polonium 210	180	pCi/L	1.0	109	70	130			
Sample ID: R08050356-004K	Sample Matrix Spike Duplicate				Run: SUB-C103750		07/01/08 14:30		
Polonium 210	170	pCi/L	1.0	101	70	130	8.2	30	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC	Project Name, PWS, Permit, Etc. Power Tech Dorey Fundokh	Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESPEC	Contact Name: Cory Foreman @ respec.com	Phone/Fax:	Sampler: (Please Print) Eric Cantre
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats - EI must be notified prior to sample submittal for the following:

- DW A2LA
- GSA EDD/EDT (Electronic Data)
- POTW/WWTP Format: _____
- State: _____ LEVEL IV
- Other: _____ NELAC

Number of Containers
 Sample Type: A W S V B O
 Air Water Soils/Solids
 Vegetation Bioassay Other

ANALYSIS REQUESTED

As per Request

SEE ATTACHED
 Normal Turnaround (TAT)

R U S H

Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:
All GW

LABORATORY USE ONLY

Received Temp: **4.9 °C**
 On Ice: Yes No

Custody Seal: Y N
 Intact: Y N
 Signature: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Signature	Date/Time	Signature	Date/Time
¹ DeaBurd GW 698	5-28-08	12:35	W				
² DeaBurd GW 698	5-28-08	12:45	W				
³ DeaBurd GW 3024	5-28-08	15:15	W				
⁴ DeaBurd GW 622	5-28-08	18:26	W				
⁵ DeaBurd GW 615	5-28-08	19:20	W				
⁶ DeaBurd GW 689	5-28-08	22:25	W				
7							
8							
9							
10							

MUST be Signed

Requested by (print):
 Eric Cantre
 Date/Time: 5/29/08 0815
 Signature: *[Signature]*

Received by (print):
 Eric Cantre
 Date/Time: 5/29/08 0815
 Signature: *[Signature]*

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

July 30, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08050419 Quote ID: R286

Project Name: Edgemont

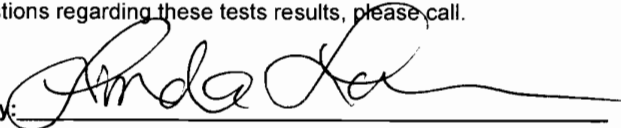
Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 5/30/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050419-001	DewBurd GW7002	05/29/08 10:44	05/30/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08050419-002	DewBurd GW7	05/29/08 11:10	05/30/08	Aqueous	Same As Above
R08050419-003	DewBurd GW8	05/29/08 11:41	05/30/08	Aqueous	Same As Above
R08050419-004	DewBurd GW628	05/29/08 15:02	05/30/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:



Linda Larson



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-001
 Client Sample ID: DewBurd GW7002

Report Date: 07/30/08
 Collection Date: 05/29/08 10:44
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	254	mg/L		5		1	A2320 B 06/02/08 11:43/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 06/02/08 11:43/mb
Bicarbonate as HCO3	310	mg/L		5		1	A2320 B 06/02/08 11:43/mb
Calcium	264	mg/L		0.5		2	E200.7 06/16/08 19:25/eli-c
Chloride	9	mg/L		1		1	E300.0 05/31/08 21:14/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 05/31/08 21:14/jmh
Magnesium	103	mg/L		0.5		2	E200.7 06/16/08 19:25/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 06/03/08 13:12/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 05/31/08 21:14/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 05/31/08 21:14/jmh
Potassium	21.7	mg/L		0.5		2	E200.7 06/16/08 19:25/eli-c
Silica	3.4	mg/L		0.5		2	E200.7 06/16/08 19:25/eli-c
Sodium	197	mg/L	D	2		2	E200.7 06/16/08 19:25/eli-c
Sulfate	1020	mg/L	D	3		50	E300.0 05/31/08 20:58/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2480	umhos/cm		5.0		1	A2510 B 06/02/08 15:03/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B 06/04/08 00:00/jmh
pH	7.36	s.u.		0.01		1	A4500-H B 06/02/08 15:40/tb
Sodium Adsorption Ratio (SAR)	2.6	unitless		0.10		1	Calculation 07/30/08 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	1800	mg/L		5		1	A2540 C 05/30/08 12:02/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 06/16/08 19:25/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 06/22/08 19:12/eli-c
Barium	ND	mg/L		0.1		2	E200.7 06/16/08 19:25/eli-c
Boron	ND	mg/L		0.1		2	E200.7 06/16/08 19:25/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 06/22/08 19:12/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 06/16/08 19:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8 06/22/08 19:12/eli-c
Iron	0.06	mg/L		0.03		2	E200.7 06/16/08 19:25/eli-c
Lead	ND	mg/L		0.001		1	E200.8 06/22/08 19:12/eli-c
Manganese	0.41	mg/L		0.01		2	E200.7 06/16/08 19:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 06/22/08 19:12/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 06/16/08 19:25/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 06/16/08 19:25/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 06/20/08 16:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8 06/22/08 19:12/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-001
 Client Sample ID: DewBurd GW7002

Report Date: 07/30/08
 Collection Date: 05/29/08 10:44
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 19:12/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	06/22/08 19:12/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 19:25/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:25/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/26/08 01:08/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:02/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	29.5	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	6.5	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	7.4	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	28.4	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	5.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	7.7	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Lead 210	-0.6	pCi/L	U			1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.5	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	8.0	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/30/08 17:02/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/30/08 17:02/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-1.1	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	0.0	pCi/L	U			1	E903.0	06/17/08 09:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-001
 Client Sample ID: DewBurd GW7002

Report Date: 07/30/08
 Collection Date: 05/29/08 10:44
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	0.6	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1270	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	109	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/13/08 20:31/eli-c
Arsenic	0.004	mg/L	D	0.002			1	E200.8	06/13/08 20:31/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/13/08 20:31/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/13/08 20:31/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 20:28/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/13/08 20:31/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/13/08 20:31/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/13/08 20:31/eli-c
Iron	1.32	mg/L		0.03			2	E200.7	06/13/08 20:28/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/13/08 20:31/eli-c
Manganese	0.40	mg/L		0.01			1	E200.8	06/13/08 20:31/eli-c
Mercury	ND	mg/L		0.0001			1	E200.8	06/13/08 20:31/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:41/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/13/08 20:31/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/13/08 20:31/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/13/08 20:31/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 14:58/eli-c
Strontium	7.7	mg/L		0.1			1	E200.8	06/13/08 20:31/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/13/08 20:31/eli-c
Uranium	0.0006	mg/L		0.0003			1	E200.8	06/13/08 20:31/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/13/08 20:31/eli-c
DATA QUALITY									
A/C Balance (± 5)	7.56	%					1	A1030 E	07/30/08 00:00/jmh
Anions	26.5	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	30.9	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	1780	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03						1	A1030 E	07/30/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-002
 Client Sample ID: DewBurd GW7

Report Date: 07/30/08
 Collection Date: 05/29/08 11:10
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	170	mg/L		5			1	A2320 B	06/02/08 11:45/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 11:45/mb
Bicarbonate as HCO3	207	mg/L		5			1	A2320 B	06/02/08 11:45/mb
Calcium	42.1	mg/L		0.5			2	E200.7	06/16/08 19:29/eli-c
Chloride	11	mg/L		1			1	E300.0	05/31/08 21:47/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	05/31/08 21:47/jmh
Magnesium	18.2	mg/L		0.5			2	E200.7	06/16/08 19:29/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1			1	A4500-NH3 G	06/03/08 13:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	05/31/08 21:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	05/31/08 21:47/jmh
Potassium	11.0	mg/L		0.5			2	E200.7	06/16/08 19:29/eli-c
Silica	4.1	mg/L		0.5			2	E200.7	06/16/08 19:29/eli-c
Sodium	300	mg/L	D	2			2	E200.7	06/16/08 19:29/eli-c
Sulfate	514	mg/L	D	3			50	E300.0	05/31/08 21:31/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1650	umhos/cm		5.0			1	A2510 B	06/02/08 15:04/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	06/04/08 00:00/jmh
pH	8.17	s.u.		0.01			1	A4500-H B	06/02/08 15:42/tb
Sodium Adsorption Ratio (SAR)	9.7	unitless		0.10			1	Calculation	07/30/08 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5			1	A2540 C	05/30/08 12:03/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 19:29/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	06/22/08 19:19/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 19:29/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/16/08 19:29/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/22/08 19:19/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/16/08 19:29/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/22/08 19:19/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/16/08 19:29/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/22/08 19:19/eli-c
Manganese	0.03	mg/L		0.01			1	E200.8	06/22/08 19:19/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/22/08 19:19/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 19:29/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/16/08 19:29/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:07/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/22/08 19:19/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-002
 Client Sample ID: DewBurd GW7

Report Date: 07/30/08
 Collection Date: 05/29/08 11:10
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 19:19/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/22/08 19:19/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 19:29/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:29/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/26/08 01:15/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:05/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	3.3	pCi/L	U			1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.2	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	9.6	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	4.4	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Lead 210	0.5	pCi/L	U			1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.5	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	0.9	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/30/08 17:02/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	06/30/08 17:02/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-7.4	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.4	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	06/17/08 09:15/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-002
 Client Sample ID: DewBurd GW7

Report Date: 07/30/08
 Collection Date: 05/29/08 11:10
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	451	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	98.8	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/13/08 20:38/eli-c
Arsenic	0.003	mg/L	D	0.002			1	E200.8	06/13/08 20:38/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/13/08 20:38/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/13/08 20:38/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 20:37/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/13/08 20:38/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/13/08 20:38/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/13/08 20:38/eli-c
Iron	0.41	mg/L		0.03			2	E200.7	06/13/08 20:37/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/13/08 20:38/eli-c
Manganese	0.03	mg/L		0.01			1	E200.8	06/13/08 20:38/eli-c
Mercury	ND	mg/L		0.0001			1	E200.8	06/13/08 20:38/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:43/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/13/08 20:38/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/13/08 20:38/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/13/08 20:38/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 15:12/eli-c
Strontium	1.1	mg/L		0.1			1	E200.8	06/13/08 20:38/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/13/08 20:38/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/13/08 20:38/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/13/08 20:38/eli-c
DATA QUALITY									
A/C Balance (± 5)	8.11	%					1	A1030 E	07/30/08 00:00/jmh
Anions	14.4	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	17.0	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	1010	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	07/30/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-003
 Client Sample ID: DewBurd GW8

Report Date: 07/30/08
 Collection Date: 05/29/08 11:41
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	164	mg/L		5			1	A2320 B	06/02/08 11:48/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 11:48/mb
Bicarbonate as HCO3	200	mg/L		5			1	A2320 B	06/02/08 11:48/mb
Calcium	58.9	mg/L		0.5			2	E200.7	06/16/08 19:33/eli-c
Chloride	11	mg/L		1			1	E300.0	05/31/08 22:20/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	05/31/08 22:20/jmh
Magnesium	26.3	mg/L		0.5			2	E200.7	06/16/08 19:33/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	06/03/08 13:17/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	05/31/08 22:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	05/31/08 22:20/jmh
Potassium	13.7	mg/L		0.5			2	E200.7	06/16/08 19:33/eli-c
Silica	3.5	mg/L		0.5			2	E200.7	06/16/08 19:33/eli-c
Sodium	240	mg/L	D	2			2	E200.7	06/16/08 19:33/eli-c
Sulfate	514	mg/L	D	3			50	E300.0	05/31/08 22:04/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1560	umhos/cm		5.0			1	A2510 B	06/02/08 15:05/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	06/04/08 00:00/jmh
pH	7.97	s.u.		0.01			1	A4500-H B	06/02/08 15:43/tb
Sodium Adsorption Ratio (SAR)	6.5	unitless		0.10			1	Calculation	07/30/08 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5			1	A2540 C	05/30/08 12:03/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 19:33/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	06/27/08 02:31/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 19:33/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/16/08 19:33/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/22/08 19:26/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/16/08 19:33/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/27/08 02:31/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/16/08 19:33/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/22/08 19:26/eli-c
Manganese	0.09	mg/L		0.01			2	E200.7	06/16/08 19:33/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/22/08 19:26/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 19:33/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/16/08 19:33/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:09/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/22/08 19:26/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-003
 Client Sample ID: DewBurd GW8

Report Date: 07/30/08
 Collection Date: 05/29/08 11:41
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 19:26/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/22/08 19:26/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	06/16/08 19:33/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:33/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/26/08 01:22/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:07/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	3.2	pCi/L	U			1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.0	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	16.2	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.6	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Lead 210	0.8	pCi/L	U			1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.5	pCi/L				1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	1.2	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/30/08 17:02/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	06/30/08 17:02/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.9	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.6	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	06/17/08 09:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-003
 Client Sample ID: DewBurd GW8

Report Date: 07/30/08
 Collection Date: 05/29/08 11:41
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	514	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	99.3	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/13/08 20:45/eli-c
Arsenic	0.003	mg/L	D	0.002			1	E200.8	06/13/08 20:45/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/13/08 20:45/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/13/08 20:45/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 20:41/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/13/08 20:45/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/13/08 20:45/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/13/08 20:45/eli-c
Iron	0.23	mg/L		0.03			2	E200.7	06/13/08 20:41/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/13/08 20:45/eli-c
Manganese	0.09	mg/L		0.01			1	E200.8	06/13/08 20:45/eli-c
Mercury	ND	mg/L		0.0001			1	E200.8	06/13/08 20:45/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:45/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/13/08 20:45/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/13/08 20:45/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/13/08 20:45/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 16:32/eli-c
Strontium	1.6	mg/L		0.1			1	E200.8	06/13/08 20:45/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/13/08 20:45/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/13/08 20:45/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/13/08 20:45/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.33	%					1	A1030 E	07/30/08 00:00/jmh
Anions	14.3	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	15.9	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	973	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	07/30/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 9 of 12
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-004
 Client Sample ID: DewBurd GW628

Report Date: 07/30/08
 Collection Date: 05/29/08 15:02
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	160	mg/L		5			1	A2320 B	06/02/08 11:51/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 11:51/mb
Bicarbonate as HCO3	195	mg/L		5			1	A2320 B	06/02/08 11:51/mb
Calcium	40.1	mg/L		0.5			2	E200.7	06/16/08 19:57/eli-c
Chloride	42	mg/L	D	5			50	E300.0	05/31/08 22:37/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	05/31/08 22:53/jmh
Magnesium	17.5	mg/L		0.5			2	E200.7	06/16/08 19:57/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	06/03/08 13:18/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	05/31/08 22:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	05/31/08 22:53/jmh
Potassium	8.2	mg/L		0.5			2	E200.7	06/16/08 19:57/eli-c
Silica	4.0	mg/L		0.5			2	E200.7	06/16/08 19:57/eli-c
Sodium	307	mg/L	D	2			2	E200.7	06/16/08 19:57/eli-c
Sulfate	515	mg/L	D	3			50	E300.0	05/31/08 22:37/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1640	umhos/cm		5.0			1	A2510 B	06/02/08 15:07/tb
Oxidation-Reduction Potential	180	mV					1	A2580 B	06/04/08 00:00/jmh
pH	8.21	s.u.		0.01			1	A4500-H B	06/02/08 15:44/tb
Sodium Adsorption Ratio (SAR)	10	unitless		0.10			1	Calculation	07/30/08 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	980	mg/L		5			1	A2540 C	05/30/08 12:05/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 19:57/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	06/23/08 02:18/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 19:57/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	06/16/08 19:57/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/23/08 02:18/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/16/08 19:57/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/23/08 02:18/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/16/08 19:57/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/23/08 02:18/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	06/16/08 19:57/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/23/08 02:18/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 19:57/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/16/08 19:57/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:11/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/24/08 12:25/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-004
 Client Sample ID: DewBurd GW628

Report Date: 07/30/08
 Collection Date: 05/29/08 15:02
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	06/23/08 02:18/eli-c
Uranium	0.0027	mg/L		0.0003			1	E200.8	06/23/08 02:18/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/16/08 19:57/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	06/16/08 19:57/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	06/26/08 01:28/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 11:09/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	39.0	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	4.8	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.1	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta	11.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.8	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	4.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Lead 210	0.1	pCi/L	U				1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.5	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	-0.5	pCi/L	U	1.0			1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.20	pCi/L					1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	6.1	pCi/L					1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	06/19/08 02:32/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	06/30/08 17:02/eli-c
Thorium 230 precision (±)	0.09	pCi/L					1	E907.0	06/30/08 17:02/eli-c
Gross Gamma	260	pCi/L		20			1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	52	pCi/L					1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	0.5	pCi/L	U				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.5	pCi/L					1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L					1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	0.1	pCi/L	U	1.0			1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.26	pCi/L					1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	-0.3	pCi/L	U				1	E903.0	06/17/08 09:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050419-004
 Client Sample ID: DewBurd GW628

Report Date: 07/30/08
 Collection Date: 05/29/08 15:02
 Date Received: 05/30/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	06/17/08 09:15/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	5040	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	144	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/13/08 20:51/eli-c
Arsenic	0.004	mg/L	D	0.002			1	E200.8	06/13/08 20:51/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/13/08 20:51/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/13/08 20:51/eli-c
Boron	0.1	mg/L		0.1			1	E200.7	06/13/08 20:45/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/13/08 20:51/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/13/08 20:51/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/13/08 20:51/eli-c
Iron	0.66	mg/L		0.03			1	E200.7	06/13/08 20:45/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/13/08 20:51/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	06/13/08 20:51/eli-c
Mercury	ND	mg/L		0.0001			1	E200.8	06/13/08 20:51/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/17/08 11:48/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/13/08 20:51/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/13/08 20:51/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/13/08 20:51/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 16:39/eli-c
Strontium	0.9	mg/L		0.1			1	E200.8	06/13/08 20:51/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/13/08 20:51/eli-c
Uranium	0.0029	mg/L		0.0003			1	E200.8	06/13/08 20:51/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/13/08 20:51/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.86	%					1	A1030 E	07/30/08 00:00/jmh
Anions	15.2	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	17.0	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	1040	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	07/30/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080602A-ALK-SEL-W		
Sample ID: LCS1_080602A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			Run: PH_COND1-R_080602A 06/02/08 10:56
Sample ID: MBLK1_080602A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080602A 06/02/08 12:28
Sample ID: R08050406-005AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 242	mg/L	5.0	98	80	120			Run: PH_COND1-R_080602A 06/02/08 11:35
Sample ID: R08050406-005AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 244	mg/L	5.0	100	80	120	0.8	10	Run: PH_COND1-R_080602A 06/02/08 11:38
Method: A2510 B							Batch: 080602_2_COND-PROBE-W		
Sample ID: LCS_COND-1_080602 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080602A 06/02/08 14:54
Sample ID: LCS1-1_080602 Conductivity @ 25 C	Laboratory Control Sample 156	umhos/cm	5.0	104	90	110			Run: PH_COND2-R_080602A 06/02/08 14:55
Sample ID: LCS2-1_080602 Conductivity @ 25 C	Laboratory Control Sample 4900	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_080602A 06/02/08 14:57
Sample ID: MBLK-1_080602 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080602A 06/02/08 14:59
Sample ID: R08050427-004A Conductivity @ 25 C	Sample Duplicate 1640	umhos/cm	5.0				3.6	10	Run: PH_COND2-R_080602A 06/02/08 15:13
Method: A2540 C							Batch: 080530A-SLDS-TDS-W		
Sample ID: LCS1_080530A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	108	90	110			Run: BAL-4-R_080530A 05/30/08 11:44
Sample ID: MBLK1_080530A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080530A 05/30/08 11:45
Sample ID: R08050419-004AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1200	mg/L	5.0	107	80	120			Run: BAL-4-R_080530A 05/30/08 12:05
Sample ID: R08050419-004AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1200	mg/L	5.0	108	80	120	0.2	10	Run: BAL-4-R_080530A 05/30/08 12:07

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080604-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_080604B		06/04/08 00:00		
Oxidation-Reduction Potential	470	mV		100	95	105			
Method: A3114 B							Analytical Run: SUB-C102993		
Sample ID: 288-92-2	Initial Calibration Verification Standard				Run: SUB-C102993		06/20/08 09:57		
Selenium-IV	0.053	mg/L	0.0010	105	90	110			
Method: A3114 B							Batch: C_SE3114-080620A		
Sample ID: 288-92-2	Laboratory Control Sample				Run: SUB-C102993		06/20/08 10:11		
Selenium-IV	0.049	mg/L	0.0010	99	90	110			
Sample ID: C08060097-001HMS	Sample Matrix Spike				Run: SUB-C102993		06/20/08 11:18		
Selenium-IV	0.046	mg/L	0.0010	93	85	115			
Sample ID: C08060097-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C102993		06/20/08 11:20		
Selenium-IV	0.048	mg/L	0.0010	96	85	115	3.3	10	
Method: A3114 B							Batch: C_SE3114-080620C		
Sample ID: MBLK	Method Blank				Run: SUB-C103018		06/20/08 15:10		
Selenium	ND	mg/L	6E-05						
Sample ID: 288-92-2	Laboratory Control Sample				Run: SUB-C103018		06/20/08 15:14		
Selenium	0.049	mg/L	0.0010	99	90	110			
Sample ID: C08060097-001HMS	Sample Matrix Spike				Run: SUB-C103018		06/20/08 16:20		
Selenium	0.044	mg/L	0.0010	87	85	115			
Sample ID: C08060097-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C103018		06/20/08 16:22		
Selenium	0.044	mg/L	0.0010	89	85	115	1.8	10	
Method: A4500-H B							Batch: 080602_1_PH-W		
Sample ID: LCS_pH-1_080602	Laboratory Control Sample				Run: PH_COND2-R_080602B		06/02/08 15:39		
pH	6.93	s.u.	0.010	101	98.55	101.45			
Sample ID: R08060006-001ADUP	Sample Duplicate				Run: PH_COND2-R_080602B		06/02/08 15:55		
pH	7.56	s.u.	0.010				0.1	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-06-03_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080603A			06/03/08 11:58
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			
						Run: TECHAA2-R_080603A			06/03/08 12:01
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			
						Run: TECHAA2-R_080603A			06/03/08 12:14
Sample ID: R08050419-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.48	mg/L	0.10	104	80	120			
						Run: TECHAA2-R_080603A			06/03/08 13:13
Sample ID: R08050419-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.45	mg/L	0.10	90	80	120	7.5	10	
						Run: TECHAA2-R_080603A			06/03/08 13:14
Method: D5072-92							Batch: C_R102221		
Sample ID: C08060087-001IDUP Radon 222	Sample Duplicate 68200	pCi/L	100				6.5	30	
						Run: SUB-C102221			06/04/08 12:40
Sample ID: MB-R102221 Radon 222	Method Blank 9	pCi/L							U
						Run: SUB-C102221			06/04/08 12:40
Sample ID: LCS-R102221 Radon 222	Laboratory Control Sample 302	pCi/L	100	96	70	130			
						Run: SUB-C102221			06/04/08 12:40
Method: E200.7							Batch: C_18769		
Sample ID: MB-18769 Boron Iron	Method Blank ND ND	mg/L mg/L	0.01 0.009						
						Run: SUB-C102679			06/13/08 20:20
Sample ID: LCS3-18769 Boron Iron	Laboratory Control Sample 0.500 2.62	mg/L mg/L	0.10 0.030	100 105	85 85	115 115			
						Run: SUB-C102679			06/13/08 20:24
Sample ID: R08050419-004D Boron Iron	Sample Matrix Spike 0.649 3.32	mg/L mg/L	0.10 0.030	102 107	70 70	130 130			
						Run: SUB-C102679			06/13/08 20:49
Sample ID: R08050419-004D Boron Iron	Sample Matrix Spike Duplicate 0.667 3.44	mg/L mg/L	0.10 0.030	106 111	70 70	130 130	2.7 3.6	20 20	
						Run: SUB-C102679			06/13/08 20:53

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_R102753			
Sample ID: MB-080616A	Method Blank		Run: SUB-C102753			06/16/08 15:33				
Silica	ND	mg/L	0.02							
Aluminum	0.01	mg/L	0.004							
Barium	ND	mg/L	0.006							
Boron	0.02	mg/L	0.008							
Calcium	ND	mg/L	0.1							
Chromium	ND	mg/L	0.002							
Iron	ND	mg/L	0.005							
Magnesium	ND	mg/L	0.04							
Manganese	ND	mg/L	0.0003							
Molybdenum	0.005	mg/L	0.003							
Nickel	ND	mg/L	0.004							
Potassium	ND	mg/L	0.02							
Sodium	ND	mg/L	0.8							
Vanadium	ND	mg/L	0.003							
Zinc	0.002	mg/L	0.002							
Sample ID: LFB-080616A	Laboratory Fortified Blank		Run: SUB-C102753			06/16/08 15:37				
Silica	0.37	mg/L	0.10	92	85	125				
Aluminum	0.99	mg/L	0.10	98	85	125				
Barium	1.0	mg/L	0.10	101	85	125				
Boron	1.00	mg/L	0.10	98	85	125				
Calcium	53	mg/L	0.50	105	85	125				
Chromium	1.0	mg/L	0.050	101	85	125				
Iron	1.1	mg/L	0.030	111	85	125				
Magnesium	52	mg/L	0.50	104	85	125				
Manganese	1.0	mg/L	0.010	102	85	125				
Molybdenum	0.98	mg/L	0.10	98	85	125				
Nickel	1.0	mg/L	0.050	100	85	125				
Potassium	46	mg/L	0.50	91	85	125				
Sodium	51	mg/L	0.77	102	85	125				
Vanadium	1.0	mg/L	0.10	104	85	125				
Zinc	1.0	mg/L	0.010	100	85	125				
Sample ID: R08050419-003C	Sample Matrix Spike		Run: SUB-C102753			06/16/08 19:37				
Aluminum	1.95	mg/L	0.10	98	70	130				
Barium	2.05	mg/L	0.10	103	70	130				
Boron	2.11	mg/L	0.10	103	70	130				
Chromium	2.11	mg/L	0.050	105	70	130				
Iron	2.22	mg/L	0.030	110	70	130				
Manganese	2.15	mg/L	0.010	103	70	130				
Molybdenum	2.02	mg/L	0.10	101	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102753		
Sample ID: R08050419-003C	Sample Matrix Spike			Run: SUB-C102753			06/16/08 19:37		
Nickel	2.10	mg/L	0.050	105	70	130			
Vanadium	2.31	mg/L	0.10	110	70	130			
Zinc	2.14	mg/L	0.010	107	70	130			
Calcium	165	mg/L	1.0	106	70	130			
Magnesium	136	mg/L	1.0	109	70	130			
Potassium	103	mg/L	1.0	89	70	130			
Silica	4.18	mg/L	0.10		70	130			A
Sodium	335	mg/L	1.5	95	70	130			
Sample ID: R08050419-003C	Sample Matrix Spike Duplicate			Run: SUB-C102753			06/16/08 19:41		
Aluminum	1.93	mg/L	0.10	97	70	130	1.1	20	
Barium	2.03	mg/L	0.10	101	70	130	1.4	20	
Boron	2.10	mg/L	0.10	102	70	130	0.8	20	
Chromium	2.07	mg/L	0.050	103	70	130	1.9	20	
Iron	2.17	mg/L	0.030	107	70	130	2.2	20	
Manganese	2.13	mg/L	0.010	102	70	130	1.0	20	
Molybdenum	2.00	mg/L	0.10	100	70	130	1.0	20	
Nickel	2.05	mg/L	0.050	102	70	130	2.6	20	
Vanadium	2.23	mg/L	0.10	106	70	130	3.8	20	
Zinc	2.09	mg/L	0.010	105	70	130	2.1	20	
Calcium	165	mg/L	1.0	106	70	130	0.0	20	
Magnesium	133	mg/L	1.0	107	70	130	2.1	20	
Potassium	104	mg/L	1.0	91	70	130	1.8	20	
Silica	4.12	mg/L	0.10		70	130	1.2	20	A
Sodium	336	mg/L	1.5	95	70	130	0.2	20	
Method: E200.8							Batch: C_18760		
Sample ID: MB-18760	Method Blank			Run: SUB-C103038			06/23/08 10:40		
Uranium	0.0003	mg/L	2E-05						
Sample ID: LCS1-18760	Laboratory Control Sample			Run: SUB-C103038			06/23/08 10:47		
Uranium	0.0487	mg/L	0.00030	92	80	120			
The LCS was not spiked for thorium.									
Sample ID: C08060097-005KMS4	Post Digestion Spike			Run: SUB-C103038			06/23/08 11:47		
Uranium	0.0124	mg/L	0.00030	99	70	130			
Sample ID: C08060097-005KMSD4	Post Digestion Spike Duplicate			Run: SUB-C103038			06/23/08 11:54		
Uranium	0.0124	mg/L	0.00030	99	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18769		
Sample ID: MB-18769	Method Blank		Run: SUB-C102666			06/13/08 20:04			
Antimony	0.0003	mg/L	0.0002						
Arsenic	0.001	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	4E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.003	mg/L	0.0002						
Lead	2E-05	mg/L							
Manganese	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	0.0002	mg/L	0.0002						
Silver	6E-05	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	4E-05						
Uranium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LCS3-18769	Laboratory Control Sample		Run: SUB-C102666			06/13/08 20:11			
Antimony	0.518	mg/L	0.050	103	85	115			
Arsenic	0.503	mg/L	0.0010	100	85	115			
Barium	0.507	mg/L	0.10	101	85	115			
Beryllium	0.252	mg/L	0.010	101	85	115			
Cadmium	0.244	mg/L	0.010	98	85	115			
Chromium	0.491	mg/L	0.050	98	85	115			
Copper	0.493	mg/L	0.010	98	85	115			
Lead	0.496	mg/L	0.050	99	85	115			
Manganese	2.55	mg/L	0.010	102	85	115			
Molybdenum	0.498	mg/L	0.10	100	85	115			
Nickel	0.487	mg/L	0.050	97	85	115			
Selenium	0.497	mg/L	0.0020	99	85	115			
Strontium	0.497	mg/L	0.10	99	85	115			
Thallium	0.495	mg/L	0.10	99	85	115			
Uranium	0.512	mg/L	0.00032	102	85	115			
Zinc	0.477	mg/L	0.010	95	85	115			
Sample ID: R08050419-004D	Sample Matrix Spike		Run: SUB-C102666			06/13/08 20:58			
Antimony	0.536	mg/L	0.050	107	70	130			
Arsenic	0.518	mg/L	0.0010	103	70	130			
Barium	0.527	mg/L	0.10	104	70	130			
Beryllium	0.253	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18769		
Sample ID: R08050419-004D	Sample Matrix Spike			Run: SUB-C102666			06/13/08 20:58		
Cadmium	0.248	mg/L	0.010	99	70	130			
Chromium	0.498	mg/L	0.050	99	70	130			
Copper	0.504	mg/L	0.010	100	70	130			
Lead	0.503	mg/L	0.050	101	70	130			
Manganese	2.67	mg/L	0.010	104	70	130			
Molybdenum	0.511	mg/L	0.10	102	70	130			
Nickel	0.492	mg/L	0.050	98	70	130			
Selenium	0.504	mg/L	0.0020	101	70	130			
Silver	0.0351	mg/L	0.010	70	70	130			
Strontium	1.39	mg/L	0.10	96	70	130			
Thallium	0.499	mg/L	0.10	100	70	130			
Uranium	0.525	mg/L	0.00032	104	70	130			
Zinc	0.493	mg/L	0.010	97	70	130			
Sample ID: R08050419-004D	Sample Matrix Spike Duplicate			Run: SUB-C102666			06/13/08 21:25		
Antimony	0.557	mg/L	0.050	111	70	130	3.8	20	
Arsenic	0.518	mg/L	0.0010	103	70	130	0.0	20	
Barium	0.557	mg/L	0.10	110	70	130	5.6	20	
Beryllium	0.233	mg/L	0.010	93	70	130	7.9	20	
Cadmium	0.253	mg/L	0.010	101	70	130	1.8	20	
Chromium	0.492	mg/L	0.050	98	70	130	1.1	20	
Copper	0.509	mg/L	0.010	101	70	130	1.0	20	
Lead	0.517	mg/L	0.050	103	70	130	2.8	20	
Manganese	2.65	mg/L	0.010	103	70	130	0.8	20	
Molybdenum	0.522	mg/L	0.10	104	70	130	2.1	20	
Nickel	0.508	mg/L	0.050	101	70	130	3.3	20	
Selenium	0.504	mg/L	0.0020	101	70	130	0.0	20	
Silver	0.0378	mg/L	0.010	76	70	130	7.5	20	
Strontium	1.42	mg/L	0.10	102	70	130	2.1	20	
Thallium	0.511	mg/L	0.10	102	70	130	2.4	20	
Uranium	0.538	mg/L	0.00032	107	70	130	2.5	20	
Zinc	0.500	mg/L	0.010	98	70	130	1.2	20	
Sample ID: MB-18769	Method Blank			Run: SUB-C102823			06/17/08 14:38		
Antimony	0.0008	mg/L	0.0002						
Arsenic	0.001	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.003	mg/L	5E-05						
Copper	0.0005	mg/L	0.0002						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18769		
Sample ID: MB-18769	Method Blank		Run: SUB-C102823			06/17/08 14:38			
Lead	ND	mg/L	5E-05						
Manganese	8E-05	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	0.0001	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	6E-05	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.003	mg/L	0.0003						
Sample ID: LCS3-18769	Laboratory Control Sample		Run: SUB-C102823			06/17/08 14:45			
Antimony	0.569	mg/L	0.050	114	85	115			
Arsenic	0.539	mg/L	0.0010	107	85	115			
Barium	0.543	mg/L	0.10	109	85	115			
Beryllium	0.287	mg/L	0.010	115	85	115			
Cadmium	0.267	mg/L	0.010	107	85	115			
Chromium	0.522	mg/L	0.050	104	85	115			
Copper	0.505	mg/L	0.010	101	85	115			
Lead	0.538	mg/L	0.050	108	85	115			
Manganese	2.65	mg/L	0.010	106	85	115			
Molybdenum	0.532	mg/L	0.10	106	85	115			
Nickel	0.507	mg/L	0.050	101	85	115			
Selenium	0.519	mg/L	0.0010	104	85	115			
Silver	0.0477	mg/L	0.010	95	85	115			
Strontium	0.519	mg/L	0.10	104	85	115			
Thallium	0.539	mg/L	0.10	108	85	115			
Uranium	0.576	mg/L	0.00030	115	85	115			
Zinc	0.494	mg/L	0.010	98	85	115			
Sample ID: R08050419-004D	Sample Matrix Spike		Run: SUB-C102823			06/17/08 16:46			
Antimony	0.568	mg/L	0.050	113	70	130			
Arsenic	0.524	mg/L	0.0010	104	70	130			
Barium	0.566	mg/L	0.10	111	70	130			
Beryllium	0.258	mg/L	0.010	103	70	130			
Cadmium	0.251	mg/L	0.010	101	70	130			
Chromium	0.506	mg/L	0.050	100	70	130			
Copper	0.491	mg/L	0.010	97	70	130			
Lead	0.556	mg/L	0.050	111	70	130			
Manganese	2.60	mg/L	0.010	101	70	130			
Molybdenum	0.568	mg/L	0.10	113	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18769		
Sample ID: R08050419-004D	Sample Matrix Spike			Run: SUB-C102823			06/17/08 16:46		
Nickel	0.500	mg/L	0.050	100	70	130			
Selenium	0.483	mg/L	0.0010	97	70	130			
Silver	0.0452	mg/L	0.010	90	70	130			
Strontium	1.48	mg/L	0.10	112	70	130			
Thallium	0.558	mg/L	0.10	112	70	130			
Uranium	0.623	mg/L	0.00030	124	70	130			
Zinc	0.460	mg/L	0.010	90	70	130			
Sample ID: R08050419-004D	Sample Matrix Spike Duplicate			Run: SUB-C102823			06/17/08 16:52		
Antimony	0.580	mg/L	0.050	116	70	130	2.2	20	
Arsenic	0.530	mg/L	0.0010	106	70	130	1.2	20	
Barium	0.582	mg/L	0.10	115	70	130	2.9	20	
Beryllium	0.264	mg/L	0.010	106	70	130	2.3	20	
Cadmium	0.255	mg/L	0.010	102	70	130	1.4	20	
Chromium	0.517	mg/L	0.050	103	70	130	2.1	20	
Copper	0.496	mg/L	0.010	98	70	130	1.1	20	
Lead	0.571	mg/L	0.050	114	70	130	2.7	20	
Manganese	2.70	mg/L	0.010	105	70	130	3.4	20	
Molybdenum	0.579	mg/L	0.10	115	70	130	1.9	20	
Nickel	0.504	mg/L	0.050	100	70	130	0.8	20	
Selenium	0.489	mg/L	0.0010	98	70	130	1.3	20	
Silver	0.0464	mg/L	0.010	93	70	130	2.5	20	
Strontium	1.49	mg/L	0.10	114	70	130	0.7	20	
Thallium	0.573	mg/L	0.10	115	70	130	2.6	20	
Uranium	0.635	mg/L	0.00030	126	70	130	1.9	20	
Zinc	0.467	mg/L	0.010	91	70	130	1.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: LRB	Method Blank		Run: SUB-C103038			06/22/08 13:02			
Arsenic	ND	mg/L	6E-05						
Cadmium	2E-05	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	8E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C103038			06/22/08 13:09			
Silver	0.0196	mg/L	0.0010	98	85	115			
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C103038			06/22/08 14:35			
Arsenic	0.0517	mg/L	0.0010	103	85	115			
Cadmium	0.0524	mg/L	0.0010	105	85	115			
Copper	0.0516	mg/L	0.0010	103	85	115			
Lead	0.0527	mg/L	0.0010	105	85	115			
Manganese	0.0530	mg/L	0.0010	106	85	115			
Mercury	0.00507	mg/L	0.0010	101	85	115			
Thorium 232	0.0520	mg/L	0.0010	104	85	115			
Uranium	0.0525	mg/L	0.00030	105	85	115			
Sample ID: R08050419-003C	Post Digestion Spike		Run: SUB-C103038			06/22/08 19:53			
Arsenic	0.0536	mg/L	0.0010	106	70	130			
Cadmium	0.0507	mg/L	0.010	101	70	130			
Copper	0.0505	mg/L	0.010	100	70	130			
Lead	0.0543	mg/L	0.050	109	70	130			
Manganese	0.136	mg/L	0.010	100	70	130			
Mercury	0.00517	mg/L	0.0010	103	70	130			
Silver	0.0119	mg/L	0.010	60	70	130			S
Thorium 232	0.0561	mg/L	0.0010	112	70	130			
Uranium	0.0558	mg/L	0.00030	111	70	130			
Sample ID: R08050419-003C	Post Digestion Spike Duplicate		Run: SUB-C103038			06/22/08 20:00			
Arsenic	0.0548	mg/L	0.0010	108	70	130	2.2	20	
Cadmium	0.0519	mg/L	0.010	104	70	130	2.3	20	
Copper	0.0510	mg/L	0.010	101	70	130	0.8	20	
Lead	0.0549	mg/L	0.050	110	70	130	1.2	20	
Manganese	0.138	mg/L	0.010	103	70	130	0.9	20	
Mercury	0.00531	mg/L	0.0010	106	70	130	2.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: R08050419-003C	Post Digestion Spike Duplicate			Run: SUB-C103038			06/22/08 20:00		
Silver	0.0124	mg/L	0.010	62	70	130	4.3	20	S
Thorium 232	0.0571	mg/L	0.0010	114	70	130	1.8	20	
Uranium	0.0567	mg/L	0.00030	113	70	130	1.7	20	
Sample ID: C08060423-001BMS	Sample Matrix Spike			Run: SUB-C103038			06/23/08 02:04		
Arsenic	0.0502	mg/L	0.0010	91	70	130			
Cadmium	0.0433	mg/L	0.0010	87	70	130			
Copper	0.0491	mg/L	0.0010	95	70	130			
Lead	0.0532	mg/L	0.0010	105	70	130			
Manganese	0.0789	mg/L	0.0010	93	70	130			
Mercury	0.00506	mg/L	0.0010	101	70	130			
Silver	0.0155	mg/L	0.0010	77	70	130			
Thorium 232	0.0551	mg/L	0.0010	109	70	130			
Uranium	0.0552	mg/L	0.00030	110	70	130			
Sample ID: C08060423-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C103038			06/23/08 02:11		
Arsenic	0.0527	mg/L	0.0010	96	70	130	4.9	20	
Cadmium	0.0451	mg/L	0.0010	90	70	130	4.1	20	
Copper	0.0526	mg/L	0.0010	102	70	130	6.9	20	
Lead	0.0559	mg/L	0.0010	110	70	130	4.9	20	
Manganese	0.0827	mg/L	0.0010	101	70	130	4.7	20	
Mercury	0.00530	mg/L	0.0010	106	70	130	4.7	20	
Silver	0.0165	mg/L	0.0010	83	70	130	6.4	20	
Thorium 232	0.0588	mg/L	0.0010	117	70	130	6.5	20	
Uranium	0.0583	mg/L	0.00030	116	70	130	5.5	20	
Sample ID: C08060096-001CMS4	Post Digestion Spike			Run: SUB-C103038			06/23/08 03:46		
Arsenic	0.0530	mg/L	0.0010	104	70	130			
Cadmium	0.0504	mg/L	0.010	101	70	130			
Copper	0.0519	mg/L	0.010	102	70	130			
Lead	0.0541	mg/L	0.050	108	70	130			
Manganese	0.110	mg/L	0.010	100	70	130			
Mercury	0.00540	mg/L	0.0010	108	70	130			
Silver	0.0124	mg/L	0.010	62	70	130			S
Thorium 232	0.0559	mg/L	0.0010	112	70	130			
Uranium	0.0622	mg/L	0.00030	112	70	130			
Sample ID: C08060096-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C103038			06/23/08 03:52		
Arsenic	0.0519	mg/L	0.0010	101	70	130	2.1	20	
Cadmium	0.0486	mg/L	0.010	97	70	130	3.6	20	
Copper	0.0504	mg/L	0.010	99	70	130	2.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: C08060096-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C103038				06/23/08 03:52
Lead	0.0527	mg/L	0.050	105	70	130	2.7	20	
Manganese	0.108	mg/L	0.010	97	70	130	1.6	20	
Mercury	0.00516	mg/L	0.0010	103	70	130	4.5	20	
Silver	0.0139	mg/L	0.010	70	70	130	12	20	
Thorium 232	0.0541	mg/L	0.0010	108	70	130	3.3	20	
Uranium	0.0595	mg/L	0.00030	107	70	130	4.4	20	
Method: E200.8							Batch: C_R103200		
Sample ID: LRB	Method Blank				Run: SUB-C103200				06/24/08 11:37
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C103200				06/24/08 11:44
Silver	0.0200	mg/L	0.0010	100	85	115			
Sample ID: C08060096-004CMS4	Post Digestion Spike				Run: SUB-C103200				06/24/08 13:59
Silver	0.0131	mg/L	0.010	66	70	130			S
Sample ID: C08060096-004CMSD4	Post Digestion Spike Duplicate				Run: SUB-C103200				06/24/08 14:26
Silver	0.0127	mg/L	0.010	63	70	130	3.6	20	S
Method: E200.8							Analytical Run: SUB-C103282		
Sample ID: METHOD BLANK	Initial Calibration Blank, Instrument Blank								06/25/08 11:35
Uranium	3.5E-06	mg/L	0.0050		0	0			
Sample ID: METHOD BLANK	Initial Calibration Blank, Instrument Blank								06/25/08 16:49
Uranium	5.2E-06	mg/L	0.0050		0	0			
Sample ID: METHOD BLANK	Initial Calibration Blank, Instrument Blank								06/25/08 23:17
Uranium	7.1E-06	mg/L	0.0050		0	0			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103319		
Sample ID: LRB	Method Blank				Run: SUB-C103319			06/26/08 12:05	
Arsenic	ND	mg/L	6E-05						
Copper	ND	mg/L	7E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C103319			06/26/08 12:12	
Arsenic	0.0490	mg/L	0.0010	98	85	115			
Copper	0.0500	mg/L	0.0010	100	85	115			
Sample ID: C08060581-003AMS	Sample Matrix Spike				Run: SUB-C103319			06/26/08 19:39	
Copper	0.107	mg/L	0.010	100	70	130			
Sample ID: C08060581-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C103319			06/26/08 19:46	
Copper	0.104	mg/L	0.010	95	70	130	2.4	20	
Sample ID: C08060558-002AMS4	Post Digestion Spike				Run: SUB-C103319			06/27/08 03:52	
Arsenic	0.255	mg/L	0.0010	94	70	130			
Copper	0.235	mg/L	0.010	90	70	130			
Sample ID: C08060558-002AMSD4	Post Digestion Spike Duplicate				Run: SUB-C103319			06/27/08 03:59	
Arsenic	0.270	mg/L	0.0010	100	70	130	5.4	20	
Copper	0.246	mg/L	0.010	94	70	130	4.6	20	
Method: E245.1							Batch: C_B_33012		
Sample ID: MB-33012	Method Blank				Run: SUB-C102832			06/17/08 09:25	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33012	Laboratory Fortified Blank				Run: SUB-C102832			06/17/08 09:28	
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: B08060966-003BMS	Sample Matrix Spike				Run: SUB-C102832			06/17/08 11:27	
Mercury	0.0017	mg/L	0.0010	86	70	130			
Sample ID: B08060966-003BMSD	Sample Matrix Spike Duplicate				Run: SUB-C102832			06/17/08 11:29	
Mercury	0.0017	mg/L	0.0010	83	70	130	3.6	30	
Method: E245.1							Analytical Run: SUB-C102832		
Sample ID: QCS	Initial Calibration Verification Standard							06/17/08 09:18	
Mercury	0.0018	mg/L	0.0010	92	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35068		
Sample ID: LFB0805311606-3	Laboratory Fortified Blank					Run: DIONEX_080531A	05/31/08 19:36		
Chloride	4.62	mg/L	0.50	92	90	110			
Fluoride	1.83	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.44	mg/L	0.10	98	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: LFB0805311606-4	Laboratory Fortified Blank					Run: DIONEX_080531A	05/31/08 19:52		
Chloride	4.57	mg/L	0.50	91	90	110			
Fluoride	1.81	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: R08050407-001BMS	Sample Matrix Spike					Run: DIONEX_080531A	05/31/08 20:25		
Chloride	27.0	mg/L	0.50		80	120			A
Fluoride	2.01	mg/L	0.10	90	80	120			
Nitrogen, Nitrate as N	10.5	mg/L	0.10	73	80	120			SE
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	80	120			
Sulfate	47.9	mg/L	1.0	74	80	120			S
Sample ID: R08050407-001BMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080531A	05/31/08 20:42		
Chloride	26.9	mg/L	0.50		80	120	0.1	10	A
Fluoride	2.00	mg/L	0.10	90	80	120	0.5	10	
Nitrogen, Nitrate as N	10.5	mg/L	0.10	73	80	120	0.1	10	SE
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	80	120	0.4	10	
Sulfate	47.8	mg/L	1.0	74	80	120	0.0	10	S
Sample ID: R08050427-002AMS	Sample Matrix Spike					Run: DIONEX_080531A	06/01/08 00:32		
Chloride	241	mg/L	5.4	87	80	120			
Fluoride	92.5	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120			
Sulfate	1100	mg/L	3.4	85	80	120			
Sample ID: R08050427-002AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080531A	06/01/08 00:48		
Chloride	241	mg/L	5.4	87	80	120	0.3	10	
Fluoride	92.2	mg/L	0.56	85	80	120	0.3	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	93	80	120	0.2	10	
Nitrogen, Nitrite as N	122	mg/L	2.9	98	80	120	0.6	10	
Sulfate	1110	mg/L	3.4	85	80	120	0.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.
 E - Estimated value. Result exceeds the instrument upper quantitation limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0466		
Sample ID: MB-GrAB-0466	Method Blank				Run: SUB-C103442			06/27/08 13:26	
Gross Alpha	-0.4	pCi/L							U
Gross Beta	-0.5	pCi/L							U
Sample ID: C08060305-001AMS	Sample Matrix Spike				Run: SUB-C103442			06/27/08 13:26	
Gross Alpha	150	pCi/L	105	70	130				
Sample ID: C08060305-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C103442			06/27/08 13:26	
Gross Alpha	130	pCi/L	97	70	130	8.2	16.6		
Sample ID: UNAT-GrAB-0466	Laboratory Control Sample				Run: SUB-C103442			06/27/08 13:27	
Gross Alpha	130	pCi/L	97	70	130				
Sample ID: Cs137-GrAB-0466	Laboratory Control Sample				Run: SUB-C103442			06/27/08 13:26	
Gross Beta	110	pCi/L	113	70	130				
Sample ID: C08060305-001AMS	Sample Matrix Spike				Run: SUB-C103442			06/27/08 13:26	
Gross Beta	110	pCi/L	120	70	130				
Sample ID: C08060305-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C103442			06/27/08 13:27	
Gross Beta	110	pCi/L	115	70	130	5.0	15.8		
Method: E901.1							Batch: C_R102468		
Sample ID: LCS-R102468	Laboratory Control Sample				Run: SUB-C102468			06/04/08 12:00	
Americium 241	690	pCi/L	20	85	70	130			
Cesium 137	1000	pCi/L	20	73	70	130			
Potassium 40	6700	pCi/L	20	100	70	130			
Sample ID: MB-R102468	Method Blank				Run: SUB-C102468			06/04/08 12:00	
Gross Gamma	ND	pCi/L							U
Sample ID: R08050419-004H	Sample Duplicate				Run: SUB-C102468			06/04/08 12:00	
Gross Gamma	230	pCi/L	20				15	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18760		
Sample ID: C08051260-001IMS Radium 226	Sample Matrix Spike 34	pCi/L		108	70	130			06/17/08 09:14
Sample ID: C08051260-001IMSD Radium 226	Sample Matrix Spike Duplicate 32	pCi/L		97	70	130	6.8	21.5	06/17/08 09:14
Sample ID: MB-18760 Radium 226	Method Blank -2	pCi/L							06/17/08 10:48 U
Sample ID: LCS-18760 Radium 226	Laboratory Control Sample 17	pCi/L		111	70	130			06/17/08 10:48
Method: E903.0							Batch: C_RA226-2856		
Sample ID: MB-RA226-2856 Radium 226	Method Blank -0.1	pCi/L							06/19/08 04:13 U
Sample ID: LCS-RA226-2856 Radium 226	Laboratory Control Sample 6.7	pCi/L		87	70	130			06/19/08 04:13
Sample ID: TAP-WATER-MS Radium 226	Sample Matrix Spike 6.9	pCi/L		87	70	130			06/19/08 04:13
Sample ID: TAP-WATER-MSD Radium 226	Sample Matrix Spike Duplicate 6.2	pCi/L		78	70	130	11	24.5	06/19/08 04:13
Method: E907.0							Batch: C_18760		
Sample ID: R08050419-002I Thorium 230	Sample Matrix Spike 22.2	pCi/L	0.20	95	70	130			06/13/08 13:30
Sample ID: R08050419-002I Thorium 230	Sample Matrix Spike Duplicate 22.6	pCi/L	0.20	98	70	130	1.8	30	06/13/08 13:30
Sample ID: LCS-18760 Thorium 230	Laboratory Control Sample 51.6	pCi/L	0.20	106	70	130			06/13/08 13:30
Sample ID: MB-18760 Thorium 230	Method Blank ND	pCi/L							06/13/08 13:30 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0547		
Sample ID: C08060097-005IDUP	Sample Duplicate								
Thorium 230	0.140	pCi/L					21	273.4	U
- No LCS, however the tracer recoveries were acceptable for all samples. The batch is approved.									
Sample ID: MB-RA-TH-ISO-0547	Method Blank								
Thorium 230	0.03	pCi/L							U
Method: E909.0M							Batch: C_18760		
Sample ID: C08051260-002IMS	Sample Matrix Spike								
Lead 210	3000	pCi/L	127		70	130			
Sample ID: C08051260-002IMSD	Sample Matrix Spike Duplicate								
Lead 210	2100	pCi/L	89		70	130	35	30	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R103520	Method Blank								
Lead 210	ND	pCi/L							U
Sample ID: LCS-R103520	Laboratory Control Sample								
Lead 210	230	pCi/L	98		70	130			
Method: E909.0M							Batch: C_R104574		
Sample ID: C08060289-003FMS	Sample Matrix Spike								
Lead 210	310	pCi/L	106		70	130			
Sample ID: C08060289-003FMSD	Sample Matrix Spike Duplicate								
Lead 210	450	pCi/L	152		70	130	35	30	SR
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MS are acceptable the batch is approved.									
Sample ID: MB-R104574	Method Blank								
Lead 210	-0.3	pCi/L							U
Sample ID: LCS-R104574	Laboratory Control Sample								
Lead 210	47	pCi/L	80		70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050419

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_18760		
Sample ID: C08060130-004FMS	Sample Matrix Spike								
Polonium 210	51	pCi/L	1.0	117	70	130			06/25/08 17:27
Sample ID: C08060130-004FMSD	Sample Matrix Spike Duplicate								
Polonium 210	48	pCi/L	1.0	109	70	130	6.9	30	06/25/08 17:27
Sample ID: LCS-18760	Laboratory Control Sample								
Polonium 210	97	pCi/L	1.0	112	70	130			06/25/08 17:27
Sample ID: MB-18760	Method Blank								
Polonium 210	-0.1	pCi/L							U
Method: RMO-3008							Batch: C_R103090		
Sample ID: C08060097-005JMS	Sample Matrix Spike								
Polonium 210	110	pCi/L	1.0	127	70	130			06/17/08 12:00
Sample ID: C08060097-005JMSD	Sample Matrix Spike Duplicate								
Polonium 210	130	pCi/L	1.0	148	70	130	15	30	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: LCS-R103090	Laboratory Control Sample								
Polonium 210	49	pCi/L	1.0	112	70	130			06/17/08 12:00
Sample ID: MB-R103090	Method Blank								
Polonium 210	0.6	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: **RESER**
 Report Mail Address: **RESER**
 Invoice Address: **RESER**
 Project Name, PWS, Permit, Etc.: **POWERTECH DERRY BARRAK**
 Contact Name: **PowerTech Derry Barrak**
 Phone/Fax: **Corey Foreman 605.342.1225**
 Invoice Contact & Phone: **Corey Foreman 605.342.1225**
 State: **SD**
 Email: **Corey Foreman 605.342.1225**
 Purchase Order: **EA-10072**
 Quota/Bottle Order: **EA-10072**

Special Report/Formats - EII must be notified prior to sample submittal for the following:

DW A2LA
 GSA EDD/EDT (Electronic Data)
 POTW/WWTP Format: _____
 State: _____ LEVEL IV
 Other: _____ NELAC

Number of Containers
 Sample Type: AWSVB O
 Air Water Soils/Solids
 Vegetation Bioassay Other

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED		Normal Turnaround (TAT)	RUSH	Comments: Contact EII prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: Cooler R/Off:	Receipt Temp On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 6.1 °C	Custody Seal Initiated Y N	Signature Match Y N
				SEE ATTACHED	Normal Turnaround (TAT)							
1 Dew Pond GW 7002	5-29-08	10:44	N									
2 Dew Pond GW 7	5-29-08	11:10	N									
3 Dew Pond GW 8	5-29-08	11:41	N									
4 Dew Pond GW 62X	5-29-08	15:02	N									
5												
6												
7												
8												
9												
10												

After Quota

SEE ATTACHED
Normal Turnaround (TAT)

RUSH
All GW

Comments:
 Complete check
 Set 8
 Genesis's bench
 Set 10
 Englehart bench
 Set 11
 old wood - 11 site
 Set 24

Custody Record MUST be Signed
 Date/Time: 5-30-08 8:15
 Signature: *[Signature]*
 Date/Time: 5-30-08 8:15
 Signature: *[Signature]*

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated in your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

LABORATORY USE ONLY

PD2050419-001
 PD2
 PD3
 PD4



ANALYTICAL SUMMARY REPORT

July 30, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08050427 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 5/31/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050427-001	DewBurd GW18	05/30/08 11:12	05/31/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08050427-002	DewBurd GW42	05/30/08 11:55	05/31/08	Aqueous	Same As Above
R08050427-003	DewBurd GW2	05/30/08 15:21	05/31/08	Aqueous	Same As Above
R08050427-004	DewBurd GW650	05/30/08 16:30	05/31/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____


Linda Larson



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-001
 Client Sample ID: DewBurd GW18

Report Date: 07/30/08
 Collection Date: 05/30/08 11:12
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	180	mg/L		5			1	A2320 B	06/02/08 11:53/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 11:53/mb
Bicarbonate as HCO3	219	mg/L		5			1	A2320 B	06/02/08 11:53/mb
Calcium	38.0	mg/L		0.5			2	E200.7	06/16/08 18:00/eli-c
Chloride	12	mg/L		1			1	E300.0	05/31/08 23:59/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	05/31/08 23:59/jmh
Magnesium	13.4	mg/L		0.5			2	E200.7	06/16/08 18:00/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	06/03/08 13:21/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	05/31/08 23:59/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	05/31/08 23:59/jmh
Potassium	6.9	mg/L		0.5			2	E200.7	06/16/08 18:00/eli-c
Silica	4.2	mg/L		0.5			2	E200.7	06/16/08 18:00/eli-c
Sodium	291	mg/L	D	2			2	E200.7	06/16/08 18:00/eli-c
Sulfate	492	mg/L	D	3			50	E300.0	05/31/08 23:09/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1470	umhos/cm		5.0			1	A2510 B	06/02/08 15:08/tb
Oxidation-Reduction Potential	200	mV					1	A2580 B	06/04/08 00:00/jmh
pH	8.10	s.u.		0.01			1	A4500-H B	06/02/08 15:49/tb
Sodium Adsorption Ratio (SAR)	10	unitless		0.10			1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5			1	A2540 C	06/05/08 14:40/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 18:00/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	06/23/08 03:39/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 18:00/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/16/08 18:00/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/23/08 03:39/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/16/08 18:00/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/23/08 03:39/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/16/08 18:00/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/23/08 03:39/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	06/23/08 03:39/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/23/08 03:39/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 18:00/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/16/08 18:00/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 15:38/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/24/08 13:32/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-001
 Client Sample ID: DewBurd GW18

Report Date: 07/30/08
 Collection Date: 05/30/08 11:12
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1 E200.8	06/23/08 03:39/eli-c
Uranium	0.0059	mg/L		0.0003		1 E200.8	06/23/08 03:39/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	06/16/08 18:00/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	06/16/08 18:00/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	06/26/08 02:01/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	06/20/08 10:34/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	27.5	pCi/L				1 E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	4.2	pCi/L				1 E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.0	pCi/L				1 E900.0	06/28/08 01:42/eli-c
Gross Beta	4.8	pCi/L				1 E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.4	pCi/L				1 E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	3.9	pCi/L				1 E900.0	06/28/08 01:42/eli-c
Lead 210	-1	pCi/L	U			1 E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1 E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L				1 E909.0M	06/17/08 06:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1 RMO-3008	06/16/08 18:00/eli-c
Radium 226	2.6	pCi/L				1 E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	06/19/08 02:32/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	06/16/08 13:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	29.6	pCi/L				1 E909.0M	06/13/08 07:15/eli-c
Lead 210 precision (±)	5.7	pCi/L				1 E909.0M	06/13/08 07:15/eli-c
Lead 210 MDC	8.7	pCi/L				1 E909.0M	06/13/08 07:15/eli-c
Polonium 210	1.7	pCi/L		1.0		1 RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.93	pCi/L				1 RMO-3008	06/25/08 17:27/eli-c
Radium 226	1.1	pCi/L				1 E903.0	06/19/08 09:39/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-001
 Client Sample ID: DewBurd GW18

Report Date: 07/30/08
 Collection Date: 05/30/08 11:12
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/16/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	06/16/08 14:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1210	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	92.1	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/14/08 02:37/eli-c
Arsenic	0.003	mg/L	D	0.002			1	E200.8	06/14/08 02:37/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/14/08 02:37/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/14/08 02:37/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 21:53/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/14/08 02:37/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/14/08 02:37/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/14/08 02:37/eli-c
Iron	1.11	mg/L		0.03			2	E200.7	06/13/08 21:53/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/14/08 02:37/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	06/14/08 02:37/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/12/08 10:36/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/14/08 02:37/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/14/08 02:37/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/14/08 02:37/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 22:44/eli-c
Strontium	0.7	mg/L		0.1			1	E200.8	06/14/08 02:37/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/14/08 02:37/eli-c
Uranium	0.0062	mg/L		0.0003			1	E200.8	06/14/08 02:37/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/14/08 02:37/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.45	%					1	A1030 E	07/18/08 00:00/jmh
Anions	14.2	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	15.8	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	973	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-002
 Client Sample ID: DewBurd GW42

Report Date: 07/30/08
 Collection Date: 05/30/08 11:55
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	176	mg/L		5			1	A2320 B	06/02/08 11:56/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/02/08 11:56/mb
Bicarbonate as HCO3	215	mg/L		5			1	A2320 B	06/02/08 11:56/mb
Calcium	39.4	mg/L		0.5			2	E200.7	06/16/08 18:04/eli-c
Chloride	11	mg/L		1			1	E300.0	06/01/08 01:04/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	06/01/08 01:04/jmh
Magnesium	13.5	mg/L		0.5			2	E200.7	06/16/08 18:04/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	06/03/08 13:23/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/01/08 01:04/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/01/08 01:04/jmh
Potassium	6.8	mg/L		0.5			2	E200.7	06/16/08 18:04/eli-c
Silica	4.1	mg/L		0.5			2	E200.7	06/16/08 18:04/eli-c
Sodium	277	mg/L	D	2			2	E200.7	06/16/08 18:04/eli-c
Sulfate	466	mg/L	D	3			50	E300.0	06/01/08 00:15/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1510	umhos/cm		5.0			1	A2510 B	06/02/08 15:09/tb
Oxidation-Reduction Potential	200	mV					1	A2580 B	06/04/08 00:00/jmh
pH	8.05	s.u.		0.01			1	A4500-H B	06/02/08 15:50/tb
Sodium Adsorption Ratio (SAR)	9.7	unitless		0.10			1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5			1	A2540 C	06/05/08 14:41/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/16/08 18:04/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	06/23/08 05:48/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/16/08 18:04/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/16/08 18:04/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/23/08 05:48/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/16/08 18:04/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/23/08 05:48/eli-c
Iron	ND	mg/L		0.03			2	E200.7	06/16/08 18:04/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/23/08 05:48/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	06/16/08 18:04/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	06/23/08 05:48/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/16/08 18:04/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/16/08 18:04/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 15:40/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/24/08 13:39/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-002
 Client Sample ID: DewBurd GW42

Report Date: 07/30/08
 Collection Date: 05/30/08 11:55
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	06/23/08 05:48/eli-c
Uranium	0.0142	mg/L		0.0003			1	E200.8	06/23/08 05:48/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/16/08 18:04/eli-c
Zinc	0.02	mg/L		0.01			1	E200.8	06/23/08 05:48/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	06/26/08 02:08/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 10:36/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	558	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	15.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	3.9	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta	159	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	4.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	3.9	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Lead 210	17.8	pCi/L					1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L					1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	5.2	pCi/L					1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	1.6	pCi/L		1.0			1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	1.4	pCi/L					1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	100	pCi/L					1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	2.0	pCi/L					1	E903.0	06/19/08 02:32/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/16/08 13:30/eli-c
Gross Gamma	150	pCi/L		20			1	E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	39	pCi/L					1	E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	14.0	pCi/L					1	E909.0M	06/13/08 07:15/eli-c
Lead 210 precision (±)	5.4	pCi/L					1	E909.0M	06/13/08 07:15/eli-c
Lead 210 MDC	8.7	pCi/L					1	E909.0M	06/13/08 07:15/eli-c
Polonium 210	0.3	pCi/L	U	1.0			1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.50	pCi/L					1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	-0.3	pCi/L	U				1	E903.0	06/19/08 09:39/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-002
 Client Sample ID: DewBurd GW42

Report Date: 07/30/08
 Collection Date: 05/30/08 11:55
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	06/16/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	06/16/08 14:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	219000	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	691	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/14/08 02:43/eli-c
Arsenic	0.004	mg/L	D	0.002			1	E200.8	06/14/08 02:43/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/14/08 02:43/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/14/08 02:43/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 22:02/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/14/08 02:43/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/14/08 02:43/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/14/08 02:43/eli-c
Iron	0.16	mg/L		0.03			2	E200.7	06/13/08 22:02/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/14/08 02:43/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	06/14/08 02:43/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/12/08 10:56/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/14/08 02:43/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/14/08 02:43/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/14/08 02:43/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 22:51/eli-c
Strontium	0.7	mg/L		0.1			1	E200.8	06/14/08 02:43/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/14/08 02:43/eli-c
Uranium	0.0149	mg/L		0.0003			1	E200.8	06/14/08 02:43/eli-c
Zinc	0.02	mg/L		0.01			1	E200.8	06/14/08 02:43/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.08	%					1	A1030 E	07/18/08 00:00/jmh
Anions	13.6	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	15.3	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	932	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.00						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-003
 Client Sample ID: DewBurd GW2

Report Date: 07/30/08
 Collection Date: 05/30/08 15:21
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	212	mg/L		5		1	A2320 B 06/02/08 11:59/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 06/02/08 11:59/mb
Bicarbonate as HCO3	258	mg/L		5		1	A2320 B 06/02/08 11:59/mb
Calcium	57.8	mg/L		0.5		2	E200.7 06/16/08 18:16/eli-c
Chloride	9	mg/L		1		1	E300.0 06/01/08 01:37/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 06/01/08 01:37/jmh
Magnesium	19.0	mg/L		0.5		2	E200.7 06/16/08 18:16/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G 06/03/08 13:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 06/01/08 01:37/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 06/01/08 01:37/jmh
Potassium	11.0	mg/L		0.5		2	E200.7 06/16/08 18:16/eli-c
Silica	4.3	mg/L		0.5		2	E200.7 06/16/08 18:16/eli-c
Sodium	297	mg/L	D	2		2	E200.7 06/16/08 18:16/eli-c
Sulfate	579	mg/L	D	3		50	E300.0 06/01/08 01:21/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1670	umhos/cm		5.0		1	A2510 B 06/02/08 15:10/tb
Oxidation-Reduction Potential	190	mV				1	A2580 B 06/04/08 00:00/jmh
pH	7.92	s.u.		0.01		1	A4500-H B 06/02/08 15:51/tb
Sodium Adsorption Ratio (SAR)	8.7	unitless		0.10		1	Calculation 07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C 06/05/08 14:41/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 06/16/08 18:16/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 06/23/08 05:55/eli-c
Barium	ND	mg/L		0.1		2	E200.7 06/16/08 18:16/eli-c
Boron	0.1	mg/L		0.1		2	E200.7 06/16/08 18:16/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 06/23/08 05:55/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 06/16/08 18:16/eli-c
Copper	ND	mg/L		0.01		1	E200.8 06/23/08 05:55/eli-c
Iron	ND	mg/L		0.03		2	E200.7 06/16/08 18:16/eli-c
Lead	ND	mg/L		0.001		1	E200.8 06/23/08 05:55/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8 06/23/08 05:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 06/23/08 05:55/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 06/16/08 18:16/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 06/16/08 18:16/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 06/20/08 15:42/eli-c
Silver	ND	mg/L		0.005		1	E200.8 06/24/08 13:46/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-003
 Client Sample ID: DewBurd GW2

Report Date: 07/30/08
 Collection Date: 05/30/08 15:21
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	06/23/08 05:55/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/23/08 05:55/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/16/08 18:16/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	06/16/08 18:16/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	06/26/08 02:15/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 10:38/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	8.2	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	3.3	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta	10.3	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.8	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	4.4	pCi/L					1	E900.0	06/28/08 01:42/eli-c
Lead 210	3.1	pCi/L	U				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L					1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L					1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	0.1	pCi/L	U	1.0			1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.90	pCi/L					1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	2.1	pCi/L					1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	06/19/08 02:32/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	06/16/08 13:30/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	1.4	pCi/L	U				1	E909.0M	06/13/08 07:15/eli-c
Lead 210 precision (±)	5.2	pCi/L					1	E909.0M	06/13/08 07:15/eli-c
Lead 210 MDC	8.7	pCi/L					1	E909.0M	06/13/08 07:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.31	pCi/L					1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	0.2	pCi/L	U				1	E903.0	06/19/08 09:39/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-003
 Client Sample ID: DewBurd GW2

Report Date: 07/30/08
 Collection Date: 05/30/08 15:21
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	06/16/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	06/16/08 14:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	727	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	83.8	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/14/08 02:50/eli-c
Arsenic	0.004	mg/L	D	0.002			1	E200.8	06/14/08 02:50/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/14/08 02:50/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/14/08 02:50/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/13/08 22:06/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/14/08 02:50/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/14/08 02:50/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/14/08 02:50/eli-c
Iron	1.54	mg/L		0.03			2	E200.7	06/13/08 22:06/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/14/08 02:50/eli-c
Manganese	0.09	mg/L		0.01			1	E200.8	06/14/08 02:50/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/12/08 10:59/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/14/08 02:50/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/14/08 02:50/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/14/08 02:50/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 22:58/eli-c
Strontium	1.8	mg/L		0.1			1	E200.8	06/14/08 02:50/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/14/08 02:50/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/14/08 02:50/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	06/14/08 02:50/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.25	%					1	A1030 E	07/18/08 00:00/jmh
Anions	16.6	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	17.7	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	1110	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	07/18/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 9 of 12
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-004
 Client Sample ID: DewBurd GW650

Report Date: 07/30/08
 Collection Date: 05/30/08 16:30
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	30	mg/L		5		1	A2320 B	06/02/08 12:10/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 12:10/mb
Bicarbonate as HCO3	37	mg/L		5		1	A2320 B	06/02/08 12:10/mb
Calcium	125	mg/L		0.5		2	E200.7	06/16/08 18:24/eli-c
Chloride	16	mg/L		1		1	E300.0	06/01/08 02:10/jmh
Fluoride	0.1	mg/L		0.1		1	E300.0	06/01/08 02:10/jmh
Magnesium	70.6	mg/L		0.5		2	E200.7	06/16/08 18:24/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	06/03/08 13:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/01/08 02:10/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	06/01/08 02:10/jmh
Potassium	15.6	mg/L		0.5		2	E200.7	06/16/08 18:24/eli-c
Silica	ND	mg/L		0.5		2	E200.7	06/16/08 18:24/eli-c
Sodium	119	mg/L	D	2		2	E200.7	06/16/08 18:24/eli-c
Sulfate	825	mg/L	D	3		50	E300.0	06/01/08 01:54/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1700	umhos/cm		5.0		1	A2510 B	06/02/08 15:11/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	06/04/08 00:00/jmh
pH	7.30	s.u.		0.01		1	A4500-H B	06/02/08 15:52/tb
Sodium Adsorption Ratio (SAR)	2.1	unitless		0.10		1	Calculation	07/18/08 18:14/ADM
Solids, Total Dissolved TDS @ 180 C	1400	mg/L		5		1	A2540 C	06/05/08 14:42/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 18:24/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/23/08 06:01/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 18:24/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	06/16/08 18:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/23/08 06:01/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/16/08 18:24/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/23/08 06:01/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	06/16/08 18:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/23/08 06:01/eli-c
Manganese	0.94	mg/L		0.01		1	E200.8	06/23/08 06:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/23/08 06:01/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 18:24/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/16/08 18:24/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 15:44/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/24/08 13:52/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-004
 Client Sample ID: DewBurd GW650

Report Date: 07/30/08
 Collection Date: 05/30/08 16:30
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	06/23/08 06:01/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/23/08 06:01/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 18:24/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 18:24/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/26/08 02:21/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	2.1	pCi/L	U			1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	2.9	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.6	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	10.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	3.2	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	5.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Lead 210	1.5	pCi/L	U			1	E909.0M	06/17/08 06:30/eli-c
Lead 210 MDC	8.2	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Lead 210 precision (±)	4.9	pCi/L				1	E909.0M	06/17/08 06:30/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	06/16/08 18:00/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	06/16/08 18:00/eli-c
Radium 226	1.2	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/19/08 02:32/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/16/08 13:30/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	6.2	pCi/L	U			1	E909.0M	06/13/08 07:15/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	06/13/08 07:15/eli-c
Lead 210 MDC	8.7	pCi/L				1	E909.0M	06/13/08 07:15/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	07/01/08 14:30/eli-c
Radium 226	-0.02	pCi/L	U			1	E903.0	06/19/08 09:39/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08050427-004
 Client Sample ID: DewBurd GW650

Report Date: 07/30/08
 Collection Date: 05/30/08 16:30
 Date Received: 05/31/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	06/19/08 09:39/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	06/16/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	06/16/08 14:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	254	pCi/L		100			1	D5072-92	06/04/08 12:40/eli-c
Radon 222 precision (±)	77.0	pCi/L					1	D5072-92	06/04/08 12:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/14/08 02:57/eli-c
Arsenic	0.002	mg/L	D	0.002			1	E200.8	06/14/08 02:57/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/14/08 02:57/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/14/08 02:57/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	06/13/08 22:10/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/14/08 02:57/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/14/08 02:57/eli-c
Copper	ND	mg/L		0.01			1	E200.8	06/14/08 02:57/eli-c
Iron	8.99	mg/L		0.03			2	E200.7	06/13/08 22:10/eli-c
Lead	0.002	mg/L		0.001			1	E200.8	06/14/08 02:57/eli-c
Manganese	0.66	mg/L		0.01			2	E200.7	06/13/08 22:10/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/12/08 11:05/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/14/08 02:57/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/14/08 02:57/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/14/08 02:57/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/17/08 23:05/eli-c
Strontium	2.6	mg/L		0.1			1	E200.8	06/14/08 02:57/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/14/08 02:57/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/14/08 02:57/eli-c
Zinc	0.02	mg/L		0.01			1	E200.8	06/14/08 02:57/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.40	%					1	A1030 E	07/18/08 00:00/jmh
Anions	18.2	meq/L					1	A1030 E	07/18/08 00:00/jmh
Cations	17.7	meq/L					1	A1030 E	07/18/08 00:00/jmh
Solids, Total Dissolved Calculated	1190	mg/L					1	A1030 E	07/18/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.13						1	A1030 E	07/18/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080602A-ALK-SEL-W		
Sample ID: LCS1_080602A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			
									Run: PH_COND1-R_080602A 06/02/08 10:56
Sample ID: MBLK1_080602A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080602A 06/02/08 12:28
Sample ID: R08050406-005AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 242	mg/L	5.0	98	80	120			Run: PH_COND1-R_080602A 06/02/08 11:35
Sample ID: R08050406-005AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 244	mg/L	5.0	100	80	120	0.8	10	Run: PH_COND1-R_080602A 06/02/08 11:38
Method: A2510 B							Batch: 080602_2_COND-PROBE-W		
Sample ID: LCS_COND-1_080602 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080602A 06/02/08 14:54
Sample ID: LCS1-1_080602 Conductivity @ 25 C	Laboratory Control Sample 156	umhos/cm	5.0	104	90	110			Run: PH_COND2-R_080602A 06/02/08 14:55
Sample ID: LCS2-1_080602 Conductivity @ 25 C	Laboratory Control Sample 4900	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_080602A 06/02/08 14:57
Sample ID: MBLK-1_080602 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080602A 06/02/08 14:59
Sample ID: R08050427-004A Conductivity @ 25 C	Sample Duplicate 1640	umhos/cm	5.0				3.6	10	Run: PH_COND2-R_080602A 06/02/08 15:13
Method: A2540 C							Batch: 080605A-SLDS-TDS-W		
Sample ID: LCS1_080605A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	107	90	110			Run: BAL-4-R_080605A 06/05/08 14:38
Sample ID: MBLK1_080605A Solids, Total Dissolved TDS @ 180 C	Method Blank 4	mg/L	3						Run: BAL-4-R_080605A 06/05/08 14:40
Sample ID: R08060018-007BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 2100	mg/L	5.0	138	80	120			Run: BAL-4-R_080605A 06/05/08 14:46 S
Sample ID: R08060018-007BMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 2100	mg/L	5.0	148	80	120	0.9	10	Run: BAL-4-R_080605A 06/05/08 14:46 S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080604-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_080604B		06/04/08 00:00		
Oxidation-Reduction Potential	470	mV		100	95	105			
Sample ID: R08050427-004F	Sample Duplicate				Run: PH_COND1-R_080604B		06/04/08 00:00		
Oxidation-Reduction Potential	200	mV					0.5	10	
Method: A3114 B							Analytical Run: SUB-C102993		
Sample ID: 288-92-2	Initial Calibration Verification Standard				Run: SUB-C102993		06/20/08 09:57		
Selenium-IV	0.053	mg/L	0.0010	105	90	110			
Method: A3114 B							Batch: C_SE3114-080620A		
Sample ID: 288-92-2	Laboratory Control Sample				Run: SUB-C102993		06/20/08 10:11		
Selenium-IV	0.049	mg/L	0.0010	99	90	110			
Sample ID: R08050356-001A	Sample Matrix Spike				Run: SUB-C102993		06/20/08 10:45		
Selenium-IV	0.069	mg/L	0.0010	137	85	115			S
Sample ID: R08050356-001A	Sample Matrix Spike Duplicate				Run: SUB-C102993		06/20/08 10:48		
Selenium-IV	0.075	mg/L	0.0010	151	85	115	9.3	10	S
Method: A3114 B							Batch: C_SE3114-080620C		
Sample ID: MBLK	Method Blank				Run: SUB-C103018		06/20/08 15:10		
Selenium	ND	mg/L	6E-05						
Sample ID: 288-92-2	Laboratory Control Sample				Run: SUB-C103018		06/20/08 15:14		
Selenium	0.049	mg/L	0.0010	99	90	110			
Sample ID: R08050356-001A	Sample Matrix Spike				Run: SUB-C103018		06/20/08 15:48		
Selenium	0.073	mg/L	0.0010	146	85	115			S
Sample ID: R08050356-001A	Sample Matrix Spike Duplicate				Run: SUB-C103018		06/20/08 15:50		
Selenium	0.073	mg/L	0.0010	145	85	115	0.0	10	S
Method: A4500-H B							Batch: 080602_1_PH-W		
Sample ID: LCS_pH-1_080602	Laboratory Control Sample				Run: PH_COND2-R_080602B		06/02/08 15:39		
pH	6.93	s.u.	0.010	101	98.55	101.45			
Sample ID: R08060006-001ADUP	Sample Duplicate				Run: PH_COND2-R_080602B		06/02/08 15:55		
pH	7.56	s.u.	0.010				0.1	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G									Batch: A2008-06-03_2_NH3_01
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						Run: TECHAA2-R_080603A 06/03/08 11:58
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			Run: TECHAA2-R_080603A 06/03/08 12:01
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	98	90	110			Run: TECHAA2-R_080603A 06/03/08 12:14
Sample ID: R08050427-003BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.57	mg/L	0.10	90	80	120			Run: TECHAA2-R_080603A 06/03/08 13:27
Sample ID: R08050427-003BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.58	mg/L	0.10	94	80	120	1.9	10	Run: TECHAA2-R_080603A 06/03/08 13:28

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102753		
Sample ID: MB-080616A	Method Blank		Run: SUB-C102753			06/16/08 15:33			
Silica	ND	mg/L	0.02						
Aluminum	0.01	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.02	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	0.005	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Zinc	0.002	mg/L	0.002						
Sample ID: LFB-080616A	Laboratory Fortified Blank		Run: SUB-C102753			06/16/08 15:37			
Silica	0.37	mg/L	0.10	92	85	125			
Aluminum	0.99	mg/L	0.10	98	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.00	mg/L	0.10	98	85	125			
Calcium	53	mg/L	0.50	105	85	125			
Chromium	1.0	mg/L	0.050	101	85	125			
Iron	1.1	mg/L	0.030	111	85	125			
Magnesium	52	mg/L	0.50	104	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	0.98	mg/L	0.10	98	85	125			
Nickel	1.0	mg/L	0.050	100	85	125			
Potassium	46	mg/L	0.50	91	85	125			
Sodium	51	mg/L	0.77	102	85	125			
Vanadium	1.0	mg/L	0.10	104	85	125			
Zinc	1.0	mg/L	0.010	100	85	125			
Sample ID: C08060096-002CMS2	Sample Matrix Spike		Run: SUB-C102753			06/16/08 18:08			
Aluminum	1.95	mg/L	0.10	98	70	130			
Barium	2.08	mg/L	0.10	104	70	130			
Boron	2.10	mg/L	0.10	102	70	130			
Chromium	2.09	mg/L	0.050	104	70	130			
Iron	2.14	mg/L	0.030	106	70	130			
Manganese	2.13	mg/L	0.010	103	70	130			
Molybdenum	2.00	mg/L	0.10	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R102753		
Sample ID: C08060096-002CMS2	Sample Matrix Spike			Run: SUB-C102753			06/16/08 18:08		
Nickel	2.06	mg/L	0.050	103	70	130			
Vanadium	2.12	mg/L	0.10	104	70	130			
Zinc	2.10	mg/L	0.010	104	70	130			
Calcium	141	mg/L	1.0	102	70	130			
Magnesium	117	mg/L	1.0	104	70	130			
Potassium	98.4	mg/L	1.0	92	70	130			
Silica	4.58	mg/L	0.10		70	130			A
Sodium	372	mg/L	1.5	95	70	130			
Sample ID: C08060096-002CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C102753			06/16/08 18:12		
Aluminum	1.98	mg/L	0.10	99	70	130	1.6	20	
Barium	2.12	mg/L	0.10	106	70	130	2.0	20	
Boron	2.16	mg/L	0.10	105	70	130	2.9	20	
Chromium	2.13	mg/L	0.050	106	70	130	1.9	20	
Iron	2.16	mg/L	0.030	108	70	130	1.2	20	
Manganese	2.17	mg/L	0.010	105	70	130	1.9	20	
Molybdenum	2.06	mg/L	0.10	103	70	130	3.2	20	
Nickel	2.12	mg/L	0.050	106	70	130	2.4	20	
Vanadium	2.21	mg/L	0.10	108	70	130	4.1	20	
Zinc	2.15	mg/L	0.010	106	70	130	2.4	20	
Calcium	145	mg/L	1.0	106	70	130	2.7	20	
Magnesium	121	mg/L	1.0	107	70	130	2.7	20	
Potassium	99.1	mg/L	1.0	92	70	130	0.7	20	
Silica	4.65	mg/L	0.10		70	130	1.3	20	A
Sodium	369	mg/L	1.5	92	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: LRB	Method Blank			Run: SUB-C103038			06/22/08 13:02		
Arsenic	ND	mg/L	6E-05						
Cadmium	2E-05	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Thorium 232	8E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Zinc	0.0005	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C103038			06/22/08 14:35		
Arsenic	0.0517	mg/L	0.0010	103	85	115			
Cadmium	0.0524	mg/L	0.0010	105	85	115			
Copper	0.0516	mg/L	0.0010	103	85	115			
Lead	0.0527	mg/L	0.0010	105	85	115			
Manganese	0.0530	mg/L	0.0010	106	85	115			
Mercury	0.00507	mg/L	0.0010	101	85	115			
Thorium 232	0.0520	mg/L	0.0010	104	85	115			
Uranium	0.0525	mg/L	0.00030	105	85	115			
Zinc	0.0554	mg/L	0.0010	110	85	115			
Sample ID: R08050419-003C	Post Digestion Spike			Run: SUB-C103038			06/22/08 19:53		
Arsenic	0.0536	mg/L	0.0010	106	70	130			
Cadmium	0.0507	mg/L	0.010	101	70	130			
Copper	0.0505	mg/L	0.010	100	70	130			
Lead	0.0543	mg/L	0.050	109	70	130			
Manganese	0.136	mg/L	0.010	100	70	130			
Mercury	0.00517	mg/L	0.0010	103	70	130			
Thorium 232	0.0561	mg/L	0.0010	112	70	130			
Uranium	0.0558	mg/L	0.00030	111	70	130			
Zinc	0.0511	mg/L	0.010	96	70	130			
Sample ID: R08050419-003C	Post Digestion Spike Duplicate			Run: SUB-C103038			06/22/08 20:00		
Arsenic	0.0548	mg/L	0.0010	108	70	130	2.2	20	
Cadmium	0.0519	mg/L	0.010	104	70	130	2.3	20	
Copper	0.0510	mg/L	0.010	101	70	130	0.8	20	
Lead	0.0549	mg/L	0.050	110	70	130	1.2	20	
Manganese	0.138	mg/L	0.010	103	70	130	0.9	20	
Mercury	0.00531	mg/L	0.0010	106	70	130	2.7	20	
Thorium 232	0.0571	mg/L	0.0010	114	70	130	1.8	20	
Uranium	0.0567	mg/L	0.00030	113	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103038		
Sample ID: R08050419-003C	Post Digestion Spike Duplicate			Run: SUB-C103038			06/22/08 20:00		
Zinc	0.0522	mg/L	0.010	98	70	130	2.2	20	
Sample ID: C08060423-001BMS	Sample Matrix Spike			Run: SUB-C103038			06/23/08 02:04		
Arsenic	0.0502	mg/L	0.0010	91	70	130			
Cadmium	0.0433	mg/L	0.0010	87	70	130			
Copper	0.0491	mg/L	0.0010	95	70	130			
Lead	0.0532	mg/L	0.0010	105	70	130			
Manganese	0.0789	mg/L	0.0010	93	70	130			
Mercury	0.00506	mg/L	0.0010	101	70	130			
Thorium 232	0.0551	mg/L	0.0010	109	70	130			
Uranium	0.0552	mg/L	0.00030	110	70	130			
Zinc	0.142	mg/L	0.0010	71	70	130			
Sample ID: C08060423-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C103038			06/23/08 02:11		
Arsenic	0.0527	mg/L	0.0010	96	70	130	4.9	20	
Cadmium	0.0451	mg/L	0.0010	90	70	130	4.1	20	
Copper	0.0526	mg/L	0.0010	102	70	130	6.9	20	
Lead	0.0559	mg/L	0.0010	110	70	130	4.9	20	
Manganese	0.0827	mg/L	0.0010	101	70	130	4.7	20	
Mercury	0.00530	mg/L	0.0010	106	70	130	4.7	20	
Thorium 232	0.0588	mg/L	0.0010	117	70	130	6.5	20	
Uranium	0.0583	mg/L	0.00030	116	70	130	5.5	20	
Zinc	0.150	mg/L	0.0010	86	70	130	5.1	20	
Method: E200.8							Batch: C_R103200		
Sample ID: LRB	Method Blank			Run: SUB-C103200			06/24/08 11:37		
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C103200			06/24/08 11:44		
Silver	0.0200	mg/L	0.0010	100	85	115			
Sample ID: C08060096-004CMS4	Post Digestion Spike			Run: SUB-C103200			06/24/08 13:59		
Silver	0.0131	mg/L	0.010	66	70	130			S
Sample ID: C08060096-004CMSD4	Post Digestion Spike Duplicate			Run: SUB-C103200			06/24/08 14:26		
Silver	0.0127	mg/L	0.010	63	70	130	3.6	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35068		
Sample ID: LFB0805311606-3	Laboratory Fortified Blank			Run: DIONEX_080531A			05/31/08 19:36		
Chloride	4.62	mg/L	0.50	92	90	110			
Fluoride	1.83	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.44	mg/L	0.10	98	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: LFB0805311606-4	Laboratory Fortified Blank			Run: DIONEX_080531A			05/31/08 19:52		
Chloride	4.57	mg/L	0.50	91	90	110			
Fluoride	1.81	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: R08050427-002AMS	Sample Matrix Spike			Run: DIONEX_080531A			06/01/08 00:32		
Chloride	241	mg/L	5.4	87	80	120			
Fluoride	92.5	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120			
Sulfate	1100	mg/L	3.4	85	80	120			
Sample ID: R08050427-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080531A			06/01/08 00:48		
Chloride	241	mg/L	5.4	87	80	120	0.3	10	
Fluoride	92.2	mg/L	0.56	85	80	120	0.3	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	93	80	120	0.2	10	
Nitrogen, Nitrite as N	122	mg/L	2.9	98	80	120	0.6	10	
Sulfate	1110	mg/L	3.4	85	80	120	0.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 07/30/08
 Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0466		
Sample ID: MB-GrAB-0466	Method Blank								
	Gross Alpha								
	-0.4	pCi/L							U
	Gross Beta								U
	-0.5	pCi/L							
Sample ID: C08060305-001AMS	Sample Matrix Spike								
	Gross Alpha								
	150	pCi/L	105		70	130			
Sample ID: C08060305-001AMSD	Sample Matrix Spike Duplicate								
	Gross Alpha								
	130	pCi/L	97		70	130	8.2	16.6	
Sample ID: UNAT-GrAB-0466	Laboratory Control Sample								
	Gross Alpha								
	130	pCi/L	97		70	130			
Sample ID: C08060305-001AMS	Sample Matrix Spike								
	Gross Beta								
	110	pCi/L	120		70	130			
Sample ID: C08060305-001AMSD	Sample Matrix Spike Duplicate								
	Gross Beta								
	110	pCi/L	115		70	130	5.0	15.8	
Method: E903.0							Batch: C_RA226-2856		
Sample ID: MB-RA226-2856	Method Blank								
	Radium 226								
	-0.1	pCi/L							U
Sample ID: LCS-RA226-2856	Laboratory Control Sample								
	Radium 226								
	6.7	pCi/L	87		70	130			
Sample ID: TAP-WATER-MS	Sample Matrix Spike								
	Radium 226								
	6.9	pCi/L	87		70	130			
Sample ID: TAP-WATER-MSD	Sample Matrix Spike Duplicate								
	Radium 226								
	6.2	pCi/L	78		70	130	11	24.5	
Method: E907.0							Batch: C_R103514		
Sample ID: C08060096-003HMS	Sample Matrix Spike								
	Thorium 230								
	12.4	pCi/L	0.20	102	70	130			
Sample ID: C08060096-003HMSD	Sample Matrix Spike Duplicate								
	Thorium 230								
	11.0	pCi/L	0.20	90	70	130	12	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R103750		
Sample ID: R08050356-004K Polonium 210	Sample Matrix Spike 180	pCi/L	1.0	109	70	130			07/01/08 14:30
Sample ID: R08050356-004K Polonium 210	Sample Matrix Spike Duplicate 170	pCi/L	1.0	101	70	130	8.2	30	07/01/08 14:30

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

Page ___ of ___

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPER		Project Name, PWS, Permit, Etc.: Power Tech Deney Burdock		Sample Origin: State: SD		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: RESPER		Contact Name: Cory Foreman & Reperson		Phone/Fax:		Sampler (Please Print): Eric Letourne	
Invoice Address:		Invoice Contact & Phone:		Purchase Order:		Quote/Bottle Order:	
Special Report/Formats - EI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POT/WWTP <input type="checkbox"/> Format: <input type="checkbox"/> State: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: <input type="checkbox"/> NELAC				Number of Containers Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other			
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)				ANALYSIS REQUESTED			
1	Den Burd GW 18	5/30/08	11:12	W	SEE ATTACHED Normal Turnaround (TAT)		
2	Den Burd GW 42	5/30/08	11:55	W			
3	Den Burd GW 2	5/30/08	15:21	W			
4	Den Burd GW 650	5/30/08	16:30	W			
5							
6					RUSH Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: Don Anderson (W24) set 25 Prime Jarvath Wayne Peterson well set 9 Jemel's tank tank old set 12		
7							
8							
9							
10							
Relinquished by (print): Eric Letourne		Date/Time: 5-31-08 10:20		Signature: 		Received by (print): J. Hartman	
Relinquished by (print):		Date/Time:		Signature:		Received by (print):	
Sample Disposal:		Return to Client:		Lab Disposal:		Date/Time:	
Signature:		Signature:		Signature:		Signature:	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

August 15, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08060210 Quote ID: R286

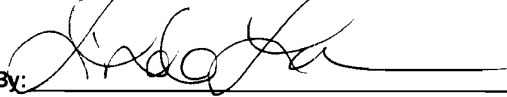
Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 6/11/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060210-001	DewBurd GW680	06/10/08 10:50	06/11/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08060210-002	DewBurd GW688	06/10/08 16:37	06/11/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 

 Linda Larson
 Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060210-001
 Client Sample ID: DewBurd GW680

Report Date: 08/15/08
 Collection Date: 06/10/08 10:50
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	188	mg/L		5			1	A2320 B	06/12/08 14:28/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/12/08 14:28/mb
Bicarbonate as HCO3	229	mg/L		5			1	A2320 B	06/12/08 14:28/mb
Calcium	415	mg/L		0.5			2	E200.7	06/26/08 15:14/eli-c
Chloride	12	mg/L		1			1	E300.0	06/12/08 18:45/eli-g
Fluoride	0.3	mg/L		0.1			1	E300.0	06/12/08 18:45/eli-g
Magnesium	134	mg/L		0.5			2	E200.7	06/26/08 15:14/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	06/19/08 10:56/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/12/08 18:45/eli-g
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/12/08 18:45/eli-g
Potassium	19.3	mg/L		0.5			2	E200.7	06/26/08 15:14/eli-c
Silica	4.4	mg/L		0.5			2	E200.7	06/26/08 15:14/eli-c
Sodium	134	mg/L	D	2			2	E200.7	06/26/08 15:14/eli-c
Sulfate	1410	mg/L		1			10	E300.0	06/12/08 18:19/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	3060	umhos/cm		5.0			1	A2510 B	06/18/08 09:34/tb
Oxidation-Reduction Potential	130	mV					1	A2580 B	06/17/08 00:00/jmh
pH	7.32	s.u.		0.01			1	A4500-H B	06/16/08 14:02/tb
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10			1	Calculation	07/30/08 11:38/ADM
Solids, Total Dissolved TDS @ 180 C	2500	mg/L		5			1	A2540 C	06/13/08 12:03/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/26/08 15:14/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	07/04/08 01:47/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/26/08 15:14/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	06/26/08 15:14/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/04/08 01:47/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/26/08 15:14/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/04/08 01:47/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	06/26/08 15:14/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/04/08 01:47/eli-c
Manganese	0.49	mg/L		0.01			2	E200.7	06/26/08 15:14/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/04/08 01:47/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/26/08 15:14/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/26/08 15:14/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:14/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/07/08 11:40/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060210-001
 Client Sample ID: DewBurd GW680

Report Date: 08/15/08
 Collection Date: 06/10/08 10:50
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/04/08 01:47/eli-c
Uranium	0.0227	mg/L		0.0003			1	E200.8	07/04/08 01:47/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/26/08 15:14/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	06/26/08 15:14/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	07/02/08 07:04/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 11:11/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	4370	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Alpha precision (±)	60.4	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Alpha MDC	7.8	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta	1320	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta precision (±)	17.9	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta MDC	9.5	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Lead 210	15.7	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.8	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	0.4	pCi/L	U	1.0			1	RMO-3008	06/30/08 12:00/eli-c
Polonium 210 precision (±)	0.70	pCi/L					1	RMO-3008	06/30/08 12:00/eli-c
Radium 226	1410	pCi/L					1	E903.0	07/15/08 21:51/eli-c
Radium 226 precision (±)	10.9	pCi/L					1	E903.0	07/15/08 21:51/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/08/08 22:11/eli-c
Thorium 230 precision (±)	0.04	pCi/L					1	E907.0	07/08/08 22:11/eli-c
Gross Gamma	5700	pCi/L		20			1	E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	390	pCi/L					1	E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	12.0	pCi/L					1	E909.0M	07/08/08 09:00/eli-c
Lead 210 precision (±)	6.5	pCi/L					1	E909.0M	07/08/08 09:00/eli-c
Lead 210 MDC	10.6	pCi/L					1	E909.0M	07/08/08 09:00/eli-c
Polonium 210	1.3	pCi/L		1.0			1	RMO-3008	06/30/08 12:00/eli-c
Polonium 210 precision (±)	0.57	pCi/L					1	RMO-3008	06/30/08 12:00/eli-c
Radium 226	4.4	pCi/L					1	E903.0	07/08/08 09:54/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060210-001
 Client Sample ID: DewBurd GW680

Report Date: 08/15/08
 Collection Date: 06/10/08 10:50
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	07/08/08 09:54/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/08/08 09:54/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	07/01/08 19:21/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/01/08 19:21/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	91700	pCi/L		100			1	D5072-92	06/16/08 16:08/eli-c
Radon 222 precision (±)	525	pCi/L					1	D5072-92	06/16/08 16:08/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/27/08 05:40/eli-c
Arsenic	0.005	mg/L	D	0.002			1	E200.8	06/27/08 05:40/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/18/08 23:09/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/27/08 05:40/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	06/18/08 23:09/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/27/08 05:40/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/18/08 23:09/eli-c
Copper	ND	mg/L		0.01			2	E200.7	06/18/08 23:09/eli-c
Iron	0.28	mg/L		0.03			2	E200.7	06/18/08 23:09/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/27/08 05:40/eli-c
Manganese	0.48	mg/L		0.01			2	E200.7	06/18/08 23:09/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/21/08 10:32/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	06/18/08 23:09/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/18/08 23:09/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/27/08 05:40/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/07/08 19:27/eli-c
Strontium	8.1	mg/L		0.1			2	E200.7	06/18/08 23:09/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/27/08 05:40/eli-c
Uranium	0.0244	mg/L		0.0003			1	E200.8	06/27/08 05:40/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	06/18/08 23:09/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.54	%					1	A1030 E	07/30/08 00:00/jmh
Anions	33.4	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	38.1	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	2250	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.10						1	A1030 E	07/30/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 3 of 6
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060210-002
 Client Sample ID: DewBurd GW688

Report Date: 08/15/08
 Collection Date: 06/10/08 16:37
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	100	mg/L		5			1	A2320 B	06/12/08 14:57/mb
Carbonate as CO3	7	mg/L		5			1	A2320 B	06/12/08 14:57/mb
Bicarbonate as HCO3	107	mg/L		5			1	A2320 B	06/12/08 14:57/mb
Calcium	34.1	mg/L		0.5			2	E200.7	06/26/08 15:26/eli-c
Chloride	11	mg/L		1			1	E300.0	06/12/08 19:10/eli-g
Fluoride	0.5	mg/L		0.1			1	E300.0	06/12/08 19:10/eli-g
Magnesium	16.6	mg/L		0.5			2	E200.7	06/26/08 15:26/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	06/19/08 10:57/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/12/08 19:10/eli-g
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/12/08 19:10/eli-g
Potassium	12.5	mg/L		0.5			2	E200.7	06/26/08 15:26/eli-c
Silica	3.7	mg/L		0.5			2	E200.7	06/26/08 15:26/eli-c
Sodium	195	mg/L	D	2			2	E200.7	06/26/08 15:26/eli-c
Sulfate	398	mg/L		1			5	E300.0	06/12/08 18:57/eli-g
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1260	umhos/cm		5.0			1	A2510 B	06/18/08 09:38/tb
Oxidation-Reduction Potential	180	mV					1	A2580 B	06/17/08 00:00/jmh
pH	8.82	s.u.		0.01			1	A4500-H B	06/16/08 14:03/tb
Sodium Adsorption Ratio (SAR)	6.9	unitless		0.10			1	Calculation	07/30/08 11:38/ADM
Solids, Total Dissolved TDS @ 180 C	740	mg/L		5			1	A2540 C	06/13/08 12:04/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	06/26/08 15:26/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	07/04/08 02:00/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/26/08 15:26/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/26/08 15:26/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/04/08 02:00/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/26/08 15:26/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/04/08 02:00/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	06/26/08 15:26/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/04/08 02:00/eli-c
Manganese	0.02	mg/L		0.01			2	E200.7	06/26/08 15:26/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/04/08 02:00/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	06/26/08 15:26/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/26/08 15:26/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	06/20/08 16:16/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/07/08 11:47/eli-c

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060210-002
 Client Sample ID: DewBurd GW688

Report Date: 08/15/08
 Collection Date: 06/10/08 16:37
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/04/08 02:00/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	07/04/08 02:00/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	06/26/08 15:26/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	06/26/08 15:26/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	07/02/08 07:08/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	06/20/08 11:13/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	17.3	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Alpha precision (±)	2.7	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Alpha MDC	2.6	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta	17.1	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta precision (±)	2.2	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Gross Beta MDC	3.2	pCi/L					1	E900.0	07/11/08 09:45/eli-c
Lead 210	-0.5	pCi/L	U				1	E909.0M	06/25/08 09:15/eli-c
Lead 210 MDC	5.9	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Lead 210 precision (±)	3.5	pCi/L					1	E909.0M	06/25/08 09:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	06/30/08 12:00/eli-c
Polonium 210 precision (±)	0.50	pCi/L					1	RMO-3008	06/30/08 12:00/eli-c
Radium 226	2.5	pCi/L					1	E903.0	07/15/08 23:27/eli-c
Radium 226 precision (±)	0.5	pCi/L					1	E903.0	07/15/08 23:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/09/08 12:34/eli-c
Thorium 230 precision (±)	0.06	pCi/L					1	E907.0	07/09/08 12:34/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	06/17/08 16:05/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	06/17/08 16:05/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	4.8	pCi/L	U				1	E909.0M	07/08/08 09:00/eli-c
Lead 210 precision (±)	6.4	pCi/L					1	E909.0M	07/08/08 09:00/eli-c
Lead 210 MDC	10.6	pCi/L					1	E909.0M	07/08/08 09:00/eli-c
Polonium 210	0.2	pCi/L	U	1.0			1	RMO-3008	06/30/08 12:00/eli-c
Polonium 210 precision (±)	0.31	pCi/L					1	RMO-3008	06/30/08 12:00/eli-c
Radium 226	-0.3	pCi/L	U				1	E903.0	07/08/08 09:54/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060210-002
 Client Sample ID: DewBurd GW688

Report Date: 08/15/08
 Collection Date: 06/10/08 16:37
 Date Received: 06/11/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	07/08/08 09:54/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	07/08/08 09:54/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	07/01/08 19:21/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/01/08 19:21/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	749	pCi/L		100			1	D5072-92	06/16/08 16:08/eli-c
Radon 222 precision (±)	105	pCi/L					1	D5072-92	06/16/08 16:08/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/27/08 05:47/eli-c
Arsenic	ND	mg/L	D	0.002			1	E200.8	06/27/08 05:47/eli-c
Barium	ND	mg/L		0.1			2	E200.7	06/18/08 23:13/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	06/27/08 05:47/eli-c
Boron	ND	mg/L		0.1			2	E200.7	06/18/08 23:13/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/27/08 05:47/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	06/18/08 23:13/eli-c
Copper	ND	mg/L		0.01			2	E200.7	06/18/08 23:13/eli-c
Iron	0.15	mg/L		0.03			2	E200.7	06/18/08 23:13/eli-c
Lead	ND	mg/L		0.001			1	E200.8	06/27/08 05:47/eli-c
Manganese	0.01	mg/L		0.01			2	E200.7	06/18/08 23:13/eli-c
Mercury	ND	mg/L		0.0001			1	E245.1	06/23/08 19:47/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	06/18/08 23:13/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	06/18/08 23:13/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/27/08 05:47/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/07/08 19:34/eli-c
Strontium	1.1	mg/L		0.1			2	E200.7	06/18/08 23:13/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/27/08 05:47/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	06/27/08 05:47/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	06/18/08 23:13/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.73	%					1	A1030 E	07/30/08 00:00/jmh
Anions	10.6	meq/L					1	A1030 E	07/30/08 00:00/jmh
Cations	11.9	meq/L					1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	738	mg/L					1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01						1	A1030 E	07/30/08 00:00/jmh

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080612A-ALK-SEL-W		
Sample ID: LCS1_080612A Alkalinity, Total as CaCO ₃	Laboratory Control Sample 936	mg/L	5.0	94	90	110			06/12/08 12:38
Sample ID: MBLK1_080612A Alkalinity, Total as CaCO ₃	Method Blank ND	mg/L	3						06/12/08 12:40
Sample ID: R08060199-002AMS Alkalinity, Total as CaCO ₃	Sample Matrix Spike 304	mg/L	5.0	106	80	120			06/12/08 14:17
Sample ID: R08060199-002AMSD Alkalinity, Total as CaCO ₃	Sample Matrix Spike Duplicate 308	mg/L	5.0	109	80	120	1.3	10	06/12/08 14:22
Method: A2510 B							Batch: 080618_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080618 Conductivity @ 25 C	Laboratory Control Sample 1390	umhos/cm	5.0	98	90	110			06/18/08 09:20
Sample ID: LCS1-1_080618 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			06/18/08 09:21
Sample ID: LCS2-1_080618 Conductivity @ 25 C	Laboratory Control Sample 5060	umhos/cm	5.0	101	90	110			06/18/08 09:23
Sample ID: MBLK-1_080618 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						06/18/08 09:24
Sample ID: R08060210-002ADUP Conductivity @ 25 C	Sample Duplicate 1210	umhos/cm	5.0				4.0	10	06/18/08 09:38

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080613A-SLDS-TDS-W		
Sample ID: LCS1_080613A	Laboratory Control Sample					Run: BAL-4-R_080616B			06/13/08 11:48
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	109	90	110			
Sample ID: MBLK1_080613A	Method Blank					Run: BAL-4-R_080616B			06/13/08 11:36
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08060199-001AMS	Sample Matrix Spike					Run: BAL-4-R_080616B			06/13/08 11:59
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	5.0	110	80	120			
Sample ID: R08060199-001AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080616B			06/13/08 12:00
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	5.0	115	80	120	0.9	10	
Sample ID: R08060228-004AMS	Sample Matrix Spike					Run: BAL-4-R_080616B			06/13/08 12:06
Solids, Total Dissolved TDS @ 180 C	2000	mg/L	5.0	107	80	120			
Sample ID: R08060228-004AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080616B			06/13/08 12:07
Solids, Total Dissolved TDS @ 180 C	2000	mg/L	5.0	113	80	120	0.6	10	
Method: A2580 B							Batch: 080617-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_080617A			06/17/08 00:00
Oxidation-Reduction Potential	470	mV		99	95	105			
Sample ID: R08060210-002F	Sample Duplicate					Run: PH_COND1-R_080617A			06/17/08 00:00
Oxidation-Reduction Potential	180	mV					0.7	10	
Method: A3114 B							Analytical Run: SUB-C102993		
Sample ID: 288-92-2	Initial Calibration Verification Standard								06/20/08 09:57
Selenium-IV	0.053	mg/L	0.0010	105	90	110			
Method: A3114 B							Batch: C_SE3114-080620A		
Sample ID: 288-92-2	Laboratory Control Sample					Run: SUB-C102993			06/20/08 10:11
Selenium-IV	0.049	mg/L	0.0010	99	90	110			
Sample ID: C08060097-001HMS	Sample Matrix Spike					Run: SUB-C102993			06/20/08 11:18
Selenium-IV	0.046	mg/L	0.0010	93	85	115			
Sample ID: C08060097-001HMSD	Sample Matrix Spike Duplicate					Run: SUB-C102993			06/20/08 11:20
Selenium-IV	0.048	mg/L	0.0010	96	85	115	3.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080620C		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05						
						Run: SUB-C103018			06/20/08 15:10
Sample ID: 288-92-2 Selenium	Laboratory Control Sample 0.049	mg/L	0.0010	99	90	110			06/20/08 15:14
Sample ID: C08060097-001HMS Selenium	Sample Matrix Spike 0.044	mg/L	0.0010	87	85	115			06/20/08 16:20
Sample ID: C08060097-001HMSD Selenium	Sample Matrix Spike Duplicate 0.044	mg/L	0.0010	89	85	115	1.8	10	06/20/08 16:22
Method: A4500-H B							Batch: 080616_3_PH-W		
Sample ID: LCS_pH-1_080616 pH	Laboratory Control Sample 6.90	s.u.	0.010	101	98.55	101.45			06/16/08 13:55
Sample ID: R08060241-001BDUP pH	Sample Duplicate 7.46	s.u.	0.010				0.1	1.25	06/16/08 14:05
Method: A4500-NH3 G							Batch: A2008-06-19_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						06/19/08 10:10
						Run: TECHAA2-R_080619A			06/19/08 10:12
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	92	90	110			06/19/08 10:22
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.22	mg/L	0.10	89	90	110			S
Sample ID: R08060199-003CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.25	mg/L	0.10	101	80	120			06/19/08 10:54
Sample ID: R08060199-003CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.24	mg/L	0.10	94	80	120	7.0	10	06/19/08 10:55
Method: D5072-92							Batch: C_R102830		
Sample ID: MB-R102830 Radon 222	Method Blank 7	pCi/L							06/16/08 16:08
						Run: SUB-C102830			06/16/08 16:08
Sample ID: LCS-R102830 Radon 222	Laboratory Control Sample 302	pCi/L	100	97	70	130			06/16/08 16:08

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18864		
Sample ID: MB-18864	Method Blank			Run: SUB-C102898			06/18/08 21:07		
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	0.01	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.003	mg/L	0.001						
Sample ID: LCS3-18864	Laboratory Control Sample			Run: SUB-C102898			06/18/08 21:11		
Barium	0.501	mg/L	0.10	100	85	115			
Boron	0.508	mg/L	0.10	102	85	115			
Chromium	0.505	mg/L	0.050	101	85	115			
Copper	0.506	mg/L	0.010	101	85	115			
Iron	2.71	mg/L	0.030	108	85	115			
Manganese	2.54	mg/L	0.010	102	85	115			
Molybdenum	0.498	mg/L	0.10	100	85	115			
Nickel	0.502	mg/L	0.050	100	85	115			
Strontium	0.499	mg/L	0.10	100	85	115			
Zinc	0.513	mg/L	0.010	102	85	115			
Sample ID: R08060210-002D	Sample Matrix Spike			Run: SUB-C102898			06/18/08 23:17		
Barium	0.522	mg/L	0.10	101	70	130			
Boron	0.557	mg/L	0.10	103	70	130			
Chromium	0.513	mg/L	0.050	103	70	130			
Copper	0.519	mg/L	0.010	104	70	130			
Iron	2.91	mg/L	0.030	110	70	130			
Manganese	2.58	mg/L	0.010	102	70	130			
Molybdenum	0.512	mg/L	0.10	102	70	130			
Nickel	0.499	mg/L	0.050	100	70	130			
Strontium	1.60	mg/L	0.10	99	70	130			
Zinc	0.525	mg/L	0.010	104	70	130			
Sample ID: R08060210-002D	Sample Matrix Spike Duplicate			Run: SUB-C102898			06/18/08 23:21		
Barium	0.529	mg/L	0.10	103	70	130	1.3	20	
Boron	0.542	mg/L	0.10	100	70	130	2.7	20	
Chromium	0.499	mg/L	0.050	100	70	130	2.7	20	
Copper	0.521	mg/L	0.010	104	70	130	0.4	20	
Iron	2.92	mg/L	0.030	111	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18864		
Sample ID: R08060210-002D	Sample Matrix Spike Duplicate			Run: SUB-C102898			06/18/08 23:21		
Manganese	2.65	mg/L	0.010	105	70	130	2.7	20	
Molybdenum	0.511	mg/L	0.10	102	70	130	0.1	20	
Nickel	0.480	mg/L	0.050	96	70	130	3.8	20	
Strontium	1.67	mg/L	0.10	113	70	130	4.3	20	
Zinc	0.512	mg/L	0.010	101	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7							Batch: C_R103332			
Sample ID: MB-080626A	Method Blank		Run: SUB-C103332			06/26/08 15:06				
Silica	ND	mg/L	0.02							
Aluminum	ND	mg/L	0.004							
Barium	ND	mg/L	0.006							
Boron	ND	mg/L	0.008							
Calcium	ND	mg/L	0.1							
Chromium	ND	mg/L	0.002							
Iron	ND	mg/L	0.005							
Magnesium	ND	mg/L	0.04							
Manganese	ND	mg/L	0.0003							
Molybdenum	0.003	mg/L	0.003							
Nickel	ND	mg/L	0.004							
Potassium	ND	mg/L	0.02							
Sodium	ND	mg/L	0.8							
Vanadium	ND	mg/L	0.003							
Zinc	ND	mg/L	0.002							
Sample ID: LFB-080626A	Laboratory Fortified Blank		Run: SUB-C103332			06/26/08 15:10				
Silica	0.39	mg/L	0.10	98	85	125				
Aluminum	1.0	mg/L	0.10	103	85	125				
Barium	0.99	mg/L	0.10	99	85	125				
Boron	1.0	mg/L	0.10	102	85	125				
Calcium	54	mg/L	0.50	107	85	125				
Chromium	1.0	mg/L	0.050	102	85	125				
Iron	1.1	mg/L	0.030	105	85	125				
Magnesium	54	mg/L	0.50	109	85	125				
Manganese	1.0	mg/L	0.010	100	85	125				
Molybdenum	0.99	mg/L	0.10	99	85	125				
Nickel	1.00	mg/L	0.050	100	85	125				
Potassium	47	mg/L	0.50	94	85	125				
Sodium	52	mg/L	0.77	104	85	125				
Vanadium	1.0	mg/L	0.10	101	85	125				
Zinc	1.0	mg/L	0.010	102	85	125				
Sample ID: R08060210-001C	Sample Matrix Spike		Run: SUB-C103332			06/26/08 15:18				
Aluminum	2.07	mg/L	0.10	104	70	130				
Barium	2.11	mg/L	0.10	105	70	130				
Boron	2.30	mg/L	0.10	107	70	130				
Chromium	2.14	mg/L	0.050	107	70	130				
Iron	2.22	mg/L	0.030	108	70	130				
Manganese	2.59	mg/L	0.010	105	70	130				
Molybdenum	2.06	mg/L	0.10	103	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103332		
Sample ID: R08060210-001C	Sample Matrix Spike			Run: SUB-C103332			06/26/08 15:18		
Nickel	2.11	mg/L	0.050	105	70	130			
Vanadium	2.22	mg/L	0.10	110	70	130			
Zinc	2.15	mg/L	0.010	107	70	130			
Calcium	511	mg/L	1.0		70	130			A
Magnesium	242	mg/L	1.0	108	70	130			
Potassium	108	mg/L	1.0	88	70	130			
Silica	4.99	mg/L	0.10		70	130			A
Sodium	238	mg/L	1.5	103	70	130			
Sample ID: R08060210-001C	Sample Matrix Spike Duplicate			Run: SUB-C103332			06/26/08 15:22		
Aluminum	2.19	mg/L	0.10	110	70	130	5.6	20	
Barium	2.13	mg/L	0.10	106	70	130	1.0	20	
Boron	2.30	mg/L	0.10	107	70	130	0.2	20	
Chromium	2.17	mg/L	0.050	108	70	130	1.2	20	
Iron	2.26	mg/L	0.030	110	70	130	1.7	20	
Manganese	2.59	mg/L	0.010	105	70	130	0.0	20	
Molybdenum	2.06	mg/L	0.10	103	70	130	0.0	20	
Nickel	2.14	mg/L	0.050	107	70	130	1.7	20	
Vanadium	2.21	mg/L	0.10	110	70	130	0.3	20	
Zinc	2.16	mg/L	0.010	108	70	130	0.7	20	
Calcium	517	mg/L	1.0		70	130	1.2	20	A
Magnesium	242	mg/L	1.0	108	70	130	0.2	20	
Potassium	108	mg/L	1.0	89	70	130	0.6	20	
Silica	4.99	mg/L	0.10		70	130	0.0	20	A
Sodium	238	mg/L	1.5	104	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18864		
Sample ID: MB-18864	Method Blank			Run: SUB-C103319			06/27/08 04:06		
Antimony	ND	mg/L	0.0002						
Arsenic	0.001	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	0.0001	mg/L							
Selenium	ND	mg/L	0.0002						
Silver	0.0001	mg/L	4E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18864	Laboratory Control Sample			Run: SUB-C103319			06/27/08 04:12		
Antimony	0.556	mg/L	0.050	111	85	115			
Arsenic	0.513	mg/L	0.0010	102	85	115			
Beryllium	0.253	mg/L	0.010	101	85	115			
Cadmium	0.255	mg/L	0.010	102	85	115			
Lead	0.537	mg/L	0.050	107	85	115			
Selenium	0.497	mg/L	0.0010	99	85	115			
Silver	0.0503	mg/L	0.010	100	85	115			
Thallium	0.544	mg/L	0.10	109	85	115			
Sample ID: R08060210-002D	Sample Matrix Spike			Run: SUB-C103319			06/27/08 05:54		
Antimony	0.550	mg/L	0.050	110	70	130			
Arsenic	0.488	mg/L	0.0010	97	70	130			
Beryllium	0.235	mg/L	0.010	94	70	130			
Cadmium	0.234	mg/L	0.010	93	70	130			
Lead	0.514	mg/L	0.050	103	70	130			
Selenium	0.452	mg/L	0.0010	90	70	130			
Silver	0.0467	mg/L	0.010	93	70	130			
Thallium	0.529	mg/L	0.10	106	70	130			
Uranium	0.597	mg/L	0.00030	119	70	130			
Sample ID: R08060210-002D	Sample Matrix Spike Duplicate			Run: SUB-C103319			06/27/08 06:00		
Antimony	0.557	mg/L	0.050	111	70	130	1.3	20	
Arsenic	0.500	mg/L	0.0010	100	70	130	2.3	20	
Beryllium	0.237	mg/L	0.010	95	70	130	0.9	20	
Cadmium	0.243	mg/L	0.010	97	70	130	3.8	20	
Lead	0.537	mg/L	0.050	107	70	130	4.3	20	
Selenium	0.460	mg/L	0.0010	92	70	130	1.8	20	
Silver	0.0484	mg/L	0.010	97	70	130	3.7	20	
Thallium	0.539	mg/L	0.10	108	70	130	1.9	20	
Uranium	0.584	mg/L	0.00030	117	70	130	2.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18884
Sample ID: LCS1-18884	Laboratory Control Sample								Run: SUB-C103282 06/26/08 05:54
Uranium	0.0498	mg/L	0.00030	95	80	120			
Sample ID: C08060805-005FMS	Sample Matrix Spike								Run: SUB-C103282 06/26/08 08:29
Uranium	0.0122	mg/L	0.00030	90	70	130			
Sample ID: C08060805-005FMSD	Sample Matrix Spike Duplicate								Run: SUB-C103282 06/26/08 08:33
Uranium	0.0125	mg/L	0.00030	92	70	130	2.5	20	
Sample ID: MB-18884	Method Blank								Run: SUB-C103591 07/02/08 07:00
Uranium	0.0004	mg/L	2E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103735		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C103735			07/03/08 12:39		
Arsenic	0.0545	mg/L	0.0010	109	85	115			
Cadmium	0.0539	mg/L	0.0010	108	85	115			
Copper	0.0547	mg/L	0.0010	109	85	115			
Lead	0.0535	mg/L	0.0010	107	85	115			
Mercury	0.00530	mg/L	0.0010	104	85	115			
Thorium 232	0.0532	mg/L	0.0010	106	85	115			
Uranium	0.0535	mg/L	0.00030	107	85	115			
Re-running for Ag.									
Sample ID: C08060235-001AMS	Sample Matrix Spike			Run: SUB-C103735			07/03/08 12:59		
Uranium	0.068	mg/L	0.0010	114	70	130			
Sample ID: C08060235-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C103735			07/03/08 13:06		
Uranium	0.069	mg/L	0.0010	118	70	130	2.7	20	
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C103735			07/03/08 16:54		
Arsenic	0.0521	mg/L	0.0010	104	85	115			
Cadmium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0520	mg/L	0.0010	104	85	115			
Lead	0.0525	mg/L	0.0010	105	85	115			
Mercury	0.00520	mg/L	0.0010	102	85	115			
Thorium 232	0.0504	mg/L	0.0010	101	85	115			
Uranium	0.0504	mg/L	0.00030	101	85	115			
Sample ID: C08060706-002BMS4	Post Digestion Spike			Run: SUB-C103735			07/04/08 03:08		
Arsenic	0.0541	mg/L	0.0010	107	70	130			
Cadmium	0.0488	mg/L	0.010	95	70	130			
Copper	0.0499	mg/L	0.010	96	70	130			
Lead	0.0536	mg/L	0.050	107	70	130			
Mercury	0.00523	mg/L	0.0010	105	70	130			
Thorium 232	0.0571	mg/L	0.0010	114	70	130			
Uranium	0.0627	mg/L	0.00030	113	70	130			
Sample ID: C08060706-002BMSD4	Post Digestion Spike Duplicate			Run: SUB-C103735			07/04/08 03:15		
Arsenic	0.0541	mg/L	0.0010	107	70	130	0.0	20	
Cadmium	0.0497	mg/L	0.010	97	70	130	1.9	20	
Copper	0.0499	mg/L	0.010	96	70	130	0.2	20	
Lead	0.0539	mg/L	0.050	108	70	130	0.6	20	
Mercury	0.00535	mg/L	0.0010	107	70	130	2.2	20	
Thorium 232	0.0573	mg/L	0.0010	115	70	130	0.4	20	
Uranium	0.0629	mg/L	0.00030	114	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R103823		
Sample ID: LRB	Method Blank				Run: SUB-C103823		07/07/08 14:02		
Silver	7E-05	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C103823		07/07/08 14:09		
Silver	0.0210	mg/L	0.0010	105	85	115			
Sample ID: C08060805-004DMS4	Post Digestion Spike				Run: SUB-C103823		07/07/08 14:36		
Silver	0.0838	mg/L	0.010	84	70	130			
Sample ID: C08060805-004DMSD4	Post Digestion Spike Duplicate				Run: SUB-C103823		07/07/08 14:43		
Silver	0.0855	mg/L	0.010	85	70	130	2.1	20	
Sample ID: C08061335-006AMS4	Post Digestion Spike				Run: SUB-C103823		07/07/08 16:11		
Silver	0.00980	mg/L	0.010	49	70	130			S
Sample ID: C08061335-006AMSD4	Post Digestion Spike Duplicate				Run: SUB-C103823		07/07/08 16:17		
Silver	0.00900	mg/L	0.010	45	70	130	0.0	20	S
Method: E245.1							Batch: C_B_33083		
Sample ID: MB-33083	Method Blank				Run: SUB-C103198		06/21/08 08:04		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33083	Laboratory Fortified Blank				Run: SUB-C103198		06/21/08 08:07		
Mercury	0.0021	mg/L	0.0010	106	85	115			
Sample ID: B08061452-005CMS	Sample Matrix Spike				Run: SUB-C103198		06/21/08 09:57		
Mercury	0.0018	mg/L	0.0010	90	70	130			
Sample ID: B08061452-005CMSD	Sample Matrix Spike Duplicate				Run: SUB-C103198		06/21/08 10:02		
Mercury	0.0017	mg/L	0.0010	84	70	130	8.0	30	
Method: E245.1							Batch: C_B_33106		
Sample ID: MB-33106	Method Blank				Run: SUB-C103264		06/23/08 19:36		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33106	Laboratory Fortified Blank				Run: SUB-C103264		06/23/08 19:38		
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: B08061470-001B MS	Sample Matrix Spike				Run: SUB-C103264		06/23/08 19:43		
Mercury	0.0018	mg/L	0.0010	91	70	130			
Sample ID: B08061470-001B MSD	Sample Matrix Spike Duplicate				Run: SUB-C103264		06/23/08 19:45		
Mercury	0.0021	mg/L	0.0010	103	70	130	13	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Analytical Run: SUB-C103198		
Sample ID: QCS	Initial Calibration Verification Standard						06/21/08 07:48		
Mercury	0.0022	mg/L	0.0010	107	90	110			
Method: E245.1							Analytical Run: SUB-C103264		
Sample ID: QCS	Initial Calibration Verification Standard						06/23/08 19:27		
Mercury	0.0019	mg/L	0.0010	94	90	110			
Method: E300.0							Batch: G_R160439		
Sample ID: LCS	Laboratory Control Sample				Run: SUB-G160439		06/11/08 11:31		
Chloride	28.7	mg/L	1.0	95	90	110			
Fluoride	19.8	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	22.2	mg/L	0.10	96	90	110			
Nitrogen, Nitrite as N	28.9	mg/L	0.10	95	90	110			
Sulfate	141	mg/L	1.0	94	90	110			
Sample ID: MBLK	Method Blank				Run: SUB-G160439		06/11/08 11:43		
Chloride	ND	mg/L	0.08						
Fluoride	ND	mg/L	0.007						
Nitrogen, Nitrate as N	ND	mg/L	0.008						
Nitrogen, Nitrite as N	ND	mg/L	0.002						
Sulfate	ND	mg/L	0.04						
Sample ID: G08060437-001AMS	Sample Matrix Spike				Run: SUB-G160439		06/12/08 17:54		
Chloride	198	mg/L	1.0	100	80	120			
Fluoride	19.6	mg/L	0.10	99	80	120			
Nitrogen, Nitrate as N	19.2	mg/L	0.10	98	80	120			
Nitrogen, Nitrite as N	20.0	mg/L	0.10	102	80	120			
Sulfate	576	mg/L	1.0	98	80	120			
Sample ID: G08060437-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-G160439		06/12/08 18:07		
Chloride	198	mg/L	1.0	99	80	120	0.2	20	
Fluoride	19.6	mg/L	0.10	99	80	120	0.1	20	
Nitrogen, Nitrate as N	19.2	mg/L	0.10	98	80	120	0.1	20	
Nitrogen, Nitrite as N	19.9	mg/L	0.10	102	80	120	0.4	20	
Sulfate	573	mg/L	1.0	96	80	120	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0475		
Sample ID: MB-GrAB-0475	Method Blank				Run: SUB-C104225			07/10/08 21:30	
Gross Alpha	2	pCi/L							
Gross Beta	-2	pCi/L							U
Sample ID: UNAT-GrAB-0475	Laboratory Control Sample				Run: SUB-C104225			07/10/08 21:30	
Gross Alpha	130	pCi/L	91	70	130				
Sample ID: C08060630-001AMS	Sample Matrix Spike				Run: SUB-C104225			07/10/08 21:30	
Gross Alpha	310	pCi/L	158	70	130				S
- Spike response is outside of the acceptance range for this analysis. Since the LCS the MS are acceptable the batch is approved.									
Sample ID: C08060630-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104225			07/10/08 21:30	
Gross Alpha	250	pCi/L	120	70	130	19	16.1		R
Sample ID: Cs137-GrAB-0475	Laboratory Control Sample				Run: SUB-C104225			07/10/08 21:30	
Gross Beta	100	pCi/L	110	70	130				
Sample ID: C08060630-001AMS	Sample Matrix Spike				Run: SUB-C104225			07/10/08 21:30	
Gross Beta	120	pCi/L	98	70	130				
Sample ID: C08060630-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104225			07/11/08 09:45	
Gross Beta	120	pCi/L	101	70	130	2.0	15.4		
Method: E901.1							Batch: C_R102941		
Sample ID: LCS-R102941	Laboratory Control Sample				Run: SUB-C102941			06/17/08 16:05	
Americium 241	29000	pCi/L	20	92	70	130			
Cesium 137	270000	pCi/L	20	101	70	130			
Cobalt 60	71000	pCi/L	20	102	70	130			
Sample ID: MB-R102941	Method Blank				Run: SUB-C102941			06/17/08 16:05	
Gross Gamma	ND	pCi/L							U
Sample ID: C08060096-004HDUP	Sample Duplicate				Run: SUB-C102941			06/17/08 16:05	
Gross Gamma	ND	pCi/L	20			0.0	30		U

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_18884
Sample ID: C08060704-003FMS Radium 226	Sample Matrix Spike 180	pCi/L		112	70	130			07/08/08 09:54
Run: SUB-C103951									
Sample ID: C08060704-003FMSD Radium 226	Sample Matrix Spike Duplicate 180	pCi/L		116	70	130	1.0	21.6	07/08/08 09:54
Run: SUB-C103951									
Sample ID: LCS-18884 Radium 226	Laboratory Control Sample 15	pCi/L		99	70	130			07/08/08 11:32
Run: SUB-C103951									
Sample ID: MB-18884 Radium 226	Method Blank -1	pCi/L							07/08/08 11:32 U
Run: SUB-C103951									
Method: E903.0									Batch: C_RA226-2915
Sample ID: C08060570-001AMS Radium 226	Sample Matrix Spike 21	pCi/L		112	70	130			07/15/08 16:23
Run: SUB-C104307									
Sample ID: C08060570-001AMSD Radium 226	Sample Matrix Spike Duplicate 21	pCi/L		110	70	130	1.7	21.8	07/15/08 16:23
Run: SUB-C104307									
Sample ID: MB-RA226-2915 Radium 226	Method Blank -0.1	pCi/L							07/15/08 23:27 U
Run: SUB-C104307									
Sample ID: LCS-RA226-2915 Radium 226	Laboratory Control Sample 8.5	pCi/L		108	70	130			07/15/08 23:27
Run: SUB-C104307									
Method: E907.0									Batch: C_18884
Sample ID: C08060721-001AMS Thorium 230	Sample Matrix Spike 44.3	pCi/Filter	0.20	90	70	130			07/16/08 09:48
Run: SUB-C104381									
Sample ID: C08060721-001AMSD Thorium 230	Sample Matrix Spike Duplicate 47.8	pCi/Filter	0.20	98	70	130	7.7	67.1	07/16/08 09:50
Run: SUB-C104381									
Sample ID: LCS-18884 Thorium 230	Laboratory Control Sample 21.2	pCi/L	0.20	88	70	130			07/03/08 20:05
Run: SUB-C104381									
Sample ID: MB-18884 Thorium 230	Method Blank 1	pCi/L							07/03/08 20:05 U
Run: SUB-C104381									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0556		
Sample ID: LCS-RA-TH-ISO-0556 Thorium 230	Laboratory Control Sample 5.46 pCi/L		0.20	91	70	130			07/08/08 22:11
Sample ID: R08060210-001H Thorium 230	Sample Matrix Spike 47.6 pCi/L		0.20	96	70	130			07/09/08 12:34
Sample ID: R08060210-001H Thorium 230	Sample Matrix Spike Duplicate 42.3 pCi/L		0.20	89	70	130	12	30	07/09/08 12:34
Sample ID: MB-RA-TH-ISO-0556 Thorium 230	Method Blank 0.009 pCi/L								07/09/08 12:34 U
Method: E909.0M							Batch: C_18884		
Sample ID: R08060210-002I Lead 210	Sample Matrix Spike 1500 pCi/L			129	70	130			07/08/08 09:00
Sample ID: R08060210-002I Lead 210	Sample Matrix Spike Duplicate 1200 pCi/L			99	70	130	26	30	07/08/08 09:00
Sample ID: MB-R105000 Lead 210	Method Blank 4 pCi/L								07/08/08 09:00 U
Sample ID: LCS-R105000 Lead 210	Laboratory Control Sample 140 pCi/L			118	70	130			07/08/08 09:00
Method: E909.0M							Batch: C_R104574		
Sample ID: C08060289-003FMS Lead 210	Sample Matrix Spike 310 pCi/L			106	70	130			06/25/08 09:15
Sample ID: C08060289-003FMSD Lead 210	Sample Matrix Spike Duplicate 450 pCi/L			152	70	130	35	30	06/25/08 09:15 SR
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MS are acceptable the batch is approved.									
Sample ID: MB-R104574 Lead 210	Method Blank -0.3 pCi/L								06/25/08 09:15 U
Sample ID: LCS-R104574 Lead 210	Laboratory Control Sample 47 pCi/L			80	70	130			06/25/08 09:15

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/15/08
 Work Order: R08060210

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R103733		
Sample ID: R08060210-002H Polonium 210	Sample Matrix Spike 80	pCi/L	1.0	93	70	130			06/30/08 12:00
Sample ID: R08060210-002H Polonium 210	Sample Matrix Spike Duplicate 84	pCi/L	1.0	98	70	130	5.1	30	06/30/08 12:00
Sample ID: LCS-R103733 Polonium 210	Laboratory Control Sample 48	pCi/L	1.0	109	70	130			06/30/08 12:00
Sample ID: MB-R103733 Polonium 210	Method Blank 0.3	pCi/L							06/30/08 12:00 U
Method: RMO-3008							Batch: C_R103734		
Sample ID: C08060805-005FMS Polonium 210	Sample Matrix Spike 42	pCi/L	1.0	96	70	130			06/30/08 12:00
Sample ID: C08060805-005FMSD Polonium 210	Sample Matrix Spike Duplicate 47	pCi/L	1.0	107	70	130	11	30	06/30/08 12:00
Sample ID: LCS-18884 Polonium 210	Laboratory Control Sample 97	pCi/L	1.0	112	70	130			06/30/08 12:00
Sample ID: MB-18884 Polonium 210	Method Blank ND	pCi/L							06/30/08 12:00 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc.: PowerTech Dairy Burdock		Sample Origin: State: SD		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>			
Report Mail Address:		Contact Name: Cory Foreman Respec		Phone/Fax:		Sampler: (Please Print) Eric Kaurer			
Invoice Address:		Invoice Contact & Phone:		Purchase Order:		Quote/Bottle Order:			
Special Report/Formats - ELL must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC				Number of Containers: Sample Type: AWSVB0 Air Water Soils/Solids Vegetation Bioassay Other				Shipped by: Cooler Dplx: _____ Receipt Temp: 6.4 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.):				ANALYSIS REQUESTED				Comments: Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page All GW	
1 Dew Burd Gw 680		Collection Date: 6/10/08		Collection Time: 10:50		MATRIX: W		SEE ATTACHED Normal Turnaround (TAT)	
2 Dew Burd Gw 688		Collection Date: 6/10/08		Collection Time: 16:37		MATRIX: W		REMARKS: Burdock Hwy Well Set 1/2 Burdock W. Private 2/5 wells	
3		4		5		6		7	
8		9		10		11		12	
Relinquished by (print): Eric Kaurer		Date/Time: 6/10/08 09:30		Signature: <i>[Signature]</i>		Received by (print): Steve Foreman		Date/Time: 6-11-08 9:30	
Relinquished by (print): Eric Kaurer		Date/Time: 6/10/08 09:30		Signature: <i>[Signature]</i>		Received by Laboratory:		Date/Time:	
Sample Disposal: Return to Client		Lab Disposal:		Signature:		Signature:		Signature:	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

August 20, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08060335 Quote ID: R286

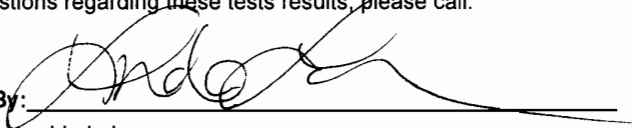
Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 6/18/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060335-001	DewBurd GW619	06/17/08 18:10	06/18/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
Linda Larson
Rapid City - Project Manager



Date: 20-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060335

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08060996

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08060996



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060335-001
 Client Sample ID: DewBurd GW619

Report Date: 08/20/08
 Collection Date: 06/17/08 18:10
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	116	mg/L		5			1	A2320 B	06/25/08 11:06/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	06/25/08 11:06/mb
Bicarbonate as HCO3	141	mg/L		5			1	A2320 B	06/25/08 11:06/mb
Calcium	375	mg/L		0.5			2	E200.7	07/08/08 19:08/eli-c
Chloride	9	mg/L		1			1	E300.0	06/20/08 01:16/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	06/20/08 01:16/jmh
Magnesium	129	mg/L		0.5			2	E200.7	07/08/08 19:08/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	06/19/08 12:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/20/08 01:16/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/20/08 01:16/jmh
Potassium	17.6	mg/L		0.5			2	E200.7	07/08/08 19:08/eli-c
Silica	4.0	mg/L		0.5			2	E200.7	07/08/08 19:08/eli-c
Sodium	90	mg/L	D	2			2	E200.7	07/08/08 19:08/eli-c
Sulfate	1230	mg/L	D	3			50	E300.0	06/20/08 00:27/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2390	umhos/cm		5.0			1	A2510 B	06/19/08 14:52/tb
Oxidation-Reduction Potential	150	mV					1	A2580 B	06/23/08 00:00/jmh
pH	7.82	s.u.		0.01			1	A4500-H B	06/19/08 12:22/tb
Sodium Adsorption Ratio (SAR)	1.0	unitless		0.10			1	Calculation	08/20/08 11:24/ADM
Solids, Total Dissolved TDS @ 180 C	2000	mg/L		5			1	A2540 C	06/20/08 08:26/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/08/08 19:08/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	07/17/08 17:01/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 19:08/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 19:08/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/17/08 17:01/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 19:08/eli-c
Copper	0.01	mg/L		0.01			1	E200.8	07/17/08 17:01/eli-c
Iron	3.03	mg/L		0.03			2	E200.7	07/08/08 19:08/eli-c
Lead	0.002	mg/L		0.001			1	E200.8	07/17/08 17:01/eli-c
Manganese	1.74	mg/L		0.01			2	E200.7	07/08/08 19:08/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/17/08 17:01/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 19:08/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 19:08/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 14:37/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 17:01/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060335-001
 Client Sample ID: DewBurd GW619

Report Date: 08/20/08
 Collection Date: 06/17/08 18:10
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/17/08 17:01/eli-c
Uranium	0.0016	mg/L		0.0003		1	E200.8 07/17/08 17:01/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/08/08 19:08/eli-c
Zinc	0.03	mg/L		0.01		2	E200.7 07/08/08 19:08/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/17/08 22:45/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 11:37/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	398	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Alpha precision (±)	19.5	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Alpha MDC	8.8	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Beta	144	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Beta precision (±)	7.7	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Gross Beta MDC	9.3	pCi/L				1	E900.0 07/21/08 22:49/eli-c
Lead 210	-1.1	pCi/L	U			1	E909.0M 07/18/08 08:20/eli-c
Lead 210 MDC	8.4	pCi/L				1	E909.0M 07/18/08 08:20/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M 07/18/08 08:20/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008 07/09/08 18:40/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008 07/09/08 18:40/eli-c
Radium 226	110	pCi/L				1	E903.0 07/16/08 08:37/eli-c
Radium 226 precision (±)	1.8	pCi/L				1	E903.0 07/16/08 08:37/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/17/08 12:48/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 07/17/08 12:48/eli-c
Gross Gamma	270	pCi/L		20		1	E901.1 06/20/08 16:37/eli-c
Gross Gamma precision (±)	52	pCi/L				1	E901.1 06/20/08 16:37/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	2.0	pCi/L	U			1	E909.0M 07/14/08 09:30/eli-c
Lead 210 precision (±)	10.9	pCi/L				1	E909.0M 07/14/08 09:30/eli-c
Lead 210 MDC	18.2	pCi/L				1	E909.0M 07/14/08 09:30/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	8.8	pCi/L				1	E903.0 07/15/08 14:46/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060335-001
 Client Sample ID: DewBurd GW619

Report Date: 08/20/08
 Collection Date: 06/17/08 18:10
 Date Received: 06/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	1.0	pCi/L					1	E903.0	07/15/08 14:46/eli-c
Radium 226 MDC	0.6	pCi/L					1	E903.0	07/15/08 14:46/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/13/08 18:14/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	5770	pCi/L		100			1	D5072-92	06/21/08 07:14/eli-c
Radon 222 precision (±)	118	pCi/L					1	D5072-92	06/21/08 07:14/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/26/08 15:22/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	06/26/08 15:22/eli-c
Barium	ND	mg/L		0.1			1	E200.8	06/26/08 15:22/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 21:45/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 23:04/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	06/26/08 15:22/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	06/26/08 15:22/eli-c
Copper	0.01	mg/L		0.01			1	E200.8	06/26/08 15:22/eli-c
Iron	13.0	mg/L		0.03			2	E200.7	07/08/08 23:04/eli-c
Lead	0.002	mg/L		0.001			1	E200.8	06/26/08 15:22/eli-c
Manganese	1.65	mg/L		0.01			1	E200.8	06/26/08 15:22/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	06/30/08 08:13/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	06/26/08 15:22/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	06/26/08 15:22/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	06/26/08 15:22/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/26/08 15:22/eli-c
Strontium	5.4	mg/L		0.1			1	E200.8	06/26/08 15:22/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	06/26/08 15:22/eli-c
Uranium	0.0018	mg/L		0.0003			1	E200.8	06/26/08 15:22/eli-c
Zinc	0.08	mg/L		0.01			1	E200.8	06/26/08 15:22/eli-c
DATA QUALITY									
A/C Balance (± 5)	9.08	%					1	A1030 E	08/20/08 00:00/kl
Anions	28.3	meq/L					1	A1030 E	08/20/08 00:00/kl
Cations	34.0	meq/L					1	A1030 E	08/20/08 00:00/kl
Solids, Total Dissolved Calculated	1940	mg/L					1	A1030 E	08/20/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.02						1	A1030 E	08/20/08 00:00/kl

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080625A-ALK-SEL-W		
Sample ID: LCS1_080625A Alkalinity, Total as CaCO3	Laboratory Control Sample 964	mg/L	5.0	96	90	110			06/25/08 09:31
Sample ID: MBLK1_080625A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						06/25/08 09:34
Sample ID: R08060319-002DMS Alkalinity, Total as CaCO3	Sample Matrix Spike 392	mg/L	5.0	98	80	120			06/25/08 10:59
Sample ID: R08060319-002DMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 390	mg/L	5.0	96	80	120	0.5	10	06/25/08 11:03
Method: A2510 B							Batch: 080619_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080619 Conductivity @ 25 C	Laboratory Control Sample 1420	umhos/cm	5.0	100	90	110			06/19/08 14:11
Sample ID: LCS1-1_080619 Conductivity @ 25 C	Laboratory Control Sample 148	umhos/cm	5.0	99	90	110			06/19/08 14:13
Sample ID: LCS2-1_080619 Conductivity @ 25 C	Laboratory Control Sample 5020	umhos/cm	5.0	100	90	110			06/19/08 14:14
Sample ID: MBLK-1_080619 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						06/19/08 14:53
Sample ID: R08060335-001ADUP Conductivity @ 25 C	Sample Duplicate 2400	umhos/cm	5.0				0.4	10	06/19/08 14:52
Method: A2540 C							Batch: 080620A-SLDS-TDS-W		
Sample ID: R08060331-003BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1400	mg/L	5.0	112	80	120			06/20/08 08:25
Sample ID: R08060331-003BMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1400	mg/L	5.0	110	80	120	0.3	10	06/20/08 08:25
Method: A2580 B							Batch: 080623-ORP-ISE-W		
Sample ID: LCS Oxidation-Reduction Potential	Laboratory Control Sample 470	mV		100	95	105			06/23/08 00:00
Sample ID: R08060335-001F Oxidation-Reduction Potential	Sample Duplicate 150	mV					2.7	10	06/23/08 00:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080719A		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05			Run: SUB-C104480			07/19/08 11:18
Sample ID: 288-106-2 Selenium-IV	Laboratory Control Sample 0.046 mg/L		0.0010	92	90	110			07/19/08 11:21
Sample ID: C08060993-001AMS Selenium-IV	Sample Matrix Spike 0.050 mg/L		0.0010	100	85	115			07/19/08 11:25
Sample ID: C08060993-001AMSD Selenium-IV	Sample Matrix Spike Duplicate 0.051 mg/L		0.0010	102	85	115	1.6	10	07/19/08 11:27
Method: A3114 B							Batch: C_SE3114-080719C		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C104484			07/19/08 14:18
Sample ID: 288-106-2 Selenium	Laboratory Control Sample 0.046 mg/L		0.0010	92	90	110			07/19/08 14:20
Sample ID: C08060993-001AMS Selenium	Sample Matrix Spike 0.051 mg/L		0.0010	102	85	115			07/19/08 14:24
Sample ID: C08060993-001AMSD Selenium	Sample Matrix Spike Duplicate 0.052 mg/L		0.0010	104	85	115	1.8	10	07/19/08 14:26
Method: A4500-H B							Batch: 080619_2_PH-W		
Sample ID: LCS_pH-1_080619 pH	Laboratory Control Sample 6.91 s.u.		0.010	101	98.55	101.45			06/19/08 11:37

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-06-19_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080619A			06/19/08 10:10
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.23	mg/L	0.10	92	90	110			06/19/08 10:12
						Run: TECHAA2-R_080619A			06/19/08 10:22
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.22	mg/L	0.10	89	90	110			S
						Run: TECHAA2-R_080619A			06/19/08 12:31
Sample ID: R08060347-003FMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.20	mg/L	0.10	81	80	120			
						Run: TECHAA2-R_080619A			06/19/08 12:32
Sample ID: R08060347-003FMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.22	mg/L	0.10	89	80	120	9.9	10	
Method: D5072-92							Batch: C_R103092		
Sample ID: C08060969-003IDUP Radon 222	Sample Duplicate 129	pCi/L	100				0.1	30	
						Run: SUB-C103092			06/21/08 07:14
Sample ID: MB-R103092 Radon 222	Method Blank 20	pCi/L							
						Run: SUB-C103092			06/21/08 07:14
Sample ID: LCS-R103092 Radon 222	Laboratory Control Sample 301	pCi/L	100	91	70	130			
						Run: SUB-C103092			06/21/08 07:14
Method: E200.7							Batch: C_18911		
Sample ID: MB-18911 Boron Iron	Method Blank 0.03 ND	mg/L mg/L	0.01 0.009						
						Run: SUB-C103914			07/08/08 22:15
Sample ID: LCS3-18911 Boron Iron	Laboratory Control Sample 0.549 2.70	mg/L mg/L	0.10 0.030	103 108	85 85	115 115			
						Run: SUB-C103914			07/08/08 22:19
Sample ID: R08060335-001D Boron Iron	Sample Matrix Spike 0.586 15.9	mg/L mg/L	0.10 0.030	102	70 70	130 130			
						Run: SUB-C103914			07/08/08 23:08
Sample ID: R08060335-001D Boron Iron	Sample Matrix Spike Duplicate 0.585 16.3	mg/L mg/L	0.10 0.030	102	70 70	130 130	0.2 2.4	20 20	A
						Run: SUB-C103914			07/08/08 23:12

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103914		
Sample ID: MB-080708A	Method Blank		Run: SUB-C103914			07/08/08 13:45			
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	0.002	mg/L	0.002						
Iron	0.005	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.010	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080708A	Laboratory Fortified Blank		Run: SUB-C103914			07/08/08 13:49			
Silica	0.39	mg/L	0.10	97	85	125			
Aluminum	0.96	mg/L	0.10	96	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.0	mg/L	0.10	101	85	125			
Calcium	51	mg/L	0.50	103	85	125			
Chromium	1.0	mg/L	0.050	102	85	125			
Iron	1.1	mg/L	0.030	108	85	125			
Magnesium	53	mg/L	0.50	105	85	125			
Manganese	1.0	mg/L	0.010	103	85	125			
Molybdenum	1.0	mg/L	0.10	102	85	125			
Nickel	1.0	mg/L	0.050	101	85	125			
Potassium	46	mg/L	0.50	91	85	125			
Sodium	48	mg/L	0.77	95	85	125			
Vanadium	1.1	mg/L	0.10	108	85	125			
Zinc	1.0	mg/L	0.010	100	85	125			
Sample ID: C08060995-003AMS2	Sample Matrix Spike		Run: SUB-C103914			07/08/08 18:40			
Aluminum	2.05	mg/L	0.10	103	70	130			
Barium	2.05	mg/L	0.10	98	70	130			
Boron	2.12	mg/L	0.10	98	70	130			
Chromium	2.02	mg/L	0.050	101	70	130			
Iron	2.07	mg/L	0.030	104	70	130			
Manganese	2.02	mg/L	0.010	99	70	130			
Molybdenum	2.00	mg/L	0.10	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103914		
Sample ID: C08060995-003AMS2	Sample Matrix Spike			Run: SUB-C103914			07/08/08 18:40		
Nickel	1.97	mg/L	0.050	99	70	130			
Vanadium	2.06	mg/L	0.10	100	70	130			
Zinc	2.01	mg/L	0.010	100	70	130			
Calcium	260	mg/L	1.0	99	70	130			
Magnesium	165	mg/L	1.0	99	70	130			
Potassium	104	mg/L	1.0	92	70	130			
Silica	6.43	mg/L	0.10		70	130			A
Sodium	551	mg/L	1.5		70	130			A
Sample ID: C08060995-003AMS2	Sample Matrix Spike Duplicate			Run: SUB-C103914			07/08/08 18:44		
Aluminum	2.13	mg/L	0.10	106	70	130	3.5	20	
Barium	2.08	mg/L	0.10	100	70	130	1.6	20	
Boron	2.21	mg/L	0.10	103	70	130	4.3	20	
Chromium	2.08	mg/L	0.050	104	70	130	3.0	20	
Iron	2.13	mg/L	0.030	106	70	130	2.5	20	
Manganese	2.09	mg/L	0.010	103	70	130	3.3	20	
Molybdenum	2.04	mg/L	0.10	102	70	130	2.0	20	
Nickel	2.05	mg/L	0.050	102	70	130	3.8	20	
Vanadium	2.09	mg/L	0.10	101	70	130	1.4	20	
Zinc	2.08	mg/L	0.010	104	70	130	3.6	20	
Calcium	258	mg/L	1.0	97	70	130	0.6	20	
Magnesium	163	mg/L	1.0	97	70	130	1.4	20	
Potassium	102	mg/L	1.0	90	70	130	1.6	20	
Silica	6.47	mg/L	0.10		70	130	0.7	20	A
Sodium	558	mg/L	1.5		70	130	1.3	20	A
Sample ID: C08070109-003CMS2	Sample Matrix Spike			Run: SUB-C103914			07/08/08 21:02		
Aluminum	4.97	mg/L	0.10	99	70	130			
Barium	4.88	mg/L	0.10	93	70	130			
Boron	5.39	mg/L	0.10	94	70	130			
Chromium	4.90	mg/L	0.050	98	70	130			
Iron	4.95	mg/L	0.030	99	70	130			
Manganese	4.71	mg/L	0.010	94	70	130			
Molybdenum	5.12	mg/L	0.10	101	70	130			
Nickel	4.79	mg/L	0.050	96	70	130			
Vanadium	4.99	mg/L	0.10	99	70	130			
Zinc	5.03	mg/L	0.011	96	70	130			
Calcium	727	mg/L	1.0	98	70	130			
Magnesium	364	mg/L	1.0	97	70	130			
Potassium	290	mg/L	1.0	85	70	130			
Silica	100	mg/L	0.10		70	130			A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103914		
Sample ID: C08070109-003CMS2	Sample Matrix Spike			Run: SUB-C103914			07/08/08 21:02		
Sodium	828	mg/L	3.9	93	70	130			
Sample ID: C08070109-003CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C103914			07/08/08 21:06		
Aluminum	5.03	mg/L	0.10	100	70	130	1.2	20	
Barium	5.05	mg/L	0.10	96	70	130	3.5	20	
Boron	5.53	mg/L	0.10	97	70	130	2.5	20	
Chromium	4.99	mg/L	0.050	99	70	130	1.9	20	
Iron	5.06	mg/L	0.030	101	70	130	2.1	20	
Manganese	4.87	mg/L	0.010	97	70	130	3.4	20	
Molybdenum	5.11	mg/L	0.10	101	70	130	0.1	20	
Nickel	4.88	mg/L	0.050	98	70	130	1.7	20	
Vanadium	5.06	mg/L	0.10	100	70	130	1.4	20	
Zinc	5.16	mg/L	0.011	98	70	130	2.6	20	
Calcium	729	mg/L	1.0	99	70	130	0.4	20	
Magnesium	364	mg/L	1.0	97	70	130	0.1	20	
Potassium	299	mg/L	1.0	89	70	130	3.1	20	
Silica	99.6	mg/L	0.10		70	130	0.6	20	A
Sodium	824	mg/L	3.9	91	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18911		
Sample ID: MB-18911	Method Blank			Run: SUB-C103319			06/26/08 14:55		
Antimony	0.0002	mg/L	0.0002						
Arsenic	0.0007	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.005	mg/L	5E-05						
Copper	0.002	mg/L	0.0002						
Lead	6E-06	mg/L							
Manganese	0.0003	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	0.0002						
Selenium	ND	mg/L	0.0002						
Silver	0.0001	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	7E-05	mg/L	4E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS3-18911	Laboratory Control Sample			Run: SUB-C103319			06/26/08 15:02		
Antimony	0.536	mg/L	0.050	107	85	115			
Arsenic	0.525	mg/L	0.0010	105	85	115			
Barium	0.520	mg/L	0.10	104	85	115			
Beryllium	0.235	mg/L	0.010	94	85	115			
Cadmium	0.259	mg/L	0.010	104	85	115			
Chromium	0.509	mg/L	0.050	101	85	115			
Copper	0.501	mg/L	0.010	100	85	115			
Lead	0.538	mg/L	0.050	108	85	115			
Manganese	2.55	mg/L	0.010	102	85	115			
Molybdenum	0.538	mg/L	0.10	108	85	115			
Nickel	0.506	mg/L	0.050	101	85	115			
Selenium	0.516	mg/L	0.0010	103	85	115			
Silver	0.0457	mg/L	0.010	91	85	115			
Strontium	0.553	mg/L	0.10	111	85	115			
Thallium	0.528	mg/L	0.10	106	85	115			
Uranium	0.573	mg/L	0.00030	115	85	115			
Zinc	0.477	mg/L	0.010	95	85	115			
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-C103319			06/26/08 15:29		
Antimony	0.556	mg/L	0.050	111	70	130			
Arsenic	0.544	mg/L	0.0010	108	70	130			
Barium	0.568	mg/L	0.10	111	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18911		
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-C103319			06/26/08 15:29		
Beryllium	0.220	mg/L	0.010	88	70	130			
Cadmium	0.252	mg/L	0.010	101	70	130			
Chromium	0.509	mg/L	0.050	101	70	130			
Copper	0.504	mg/L	0.010	99	70	130			
Lead	0.564	mg/L	0.050	112	70	130			
Manganese	4.21	mg/L	0.010	102	70	130			
Molybdenum	0.573	mg/L	0.10	114	70	130			
Nickel	0.513	mg/L	0.050	102	70	130			
Selenium	0.522	mg/L	0.0010	104	70	130			
Silver	0.0451	mg/L	0.010	90	70	130			
Strontium	6.22	mg/L	0.10		70	130			A
Thallium	0.574	mg/L	0.10	115	70	130			
Uranium	0.629	mg/L	0.00030	125	70	130			
Zinc	0.507	mg/L	0.010	85	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate			Run: SUB-C103319			06/26/08 15:35		
Antimony	0.550	mg/L	0.050	110	70	130	1.1	20	
Arsenic	0.528	mg/L	0.0010	105	70	130	2.9	20	
Barium	0.559	mg/L	0.10	109	70	130	1.5	20	
Beryllium	0.215	mg/L	0.010	86	70	130	2.2	20	
Cadmium	0.247	mg/L	0.010	99	70	130	2.0	20	
Chromium	0.495	mg/L	0.050	98	70	130	2.8	20	
Copper	0.488	mg/L	0.010	96	70	130	3.1	20	
Lead	0.562	mg/L	0.050	112	70	130	0.4	20	
Manganese	4.21	mg/L	0.010	102	70	130	0.0	20	
Molybdenum	0.561	mg/L	0.10	112	70	130	2.1	20	
Nickel	0.494	mg/L	0.050	98	70	130	3.8	20	
Selenium	0.504	mg/L	0.0010	101	70	130	3.5	20	
Silver	0.0441	mg/L	0.010	88	70	130	2.2	20	
Strontium	6.16	mg/L	0.10		70	130	1.0	20	A
Thallium	0.571	mg/L	0.10	114	70	130	0.5	20	
Uranium	0.630	mg/L	0.00030	126	70	130	0.1	20	
Zinc	0.496	mg/L	0.010	83	70	130	2.1	20	
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-C104018			07/10/08 11:21		
Arsenic	0.529	mg/L	0.0010	105	70	130			
Copper	0.516	mg/L	0.010	101	70	130			
Lead	0.513	mg/L	0.050	103	70	130			
Manganese	4.40	mg/L	0.010	111	70	130			
Molybdenum	0.510	mg/L	0.10	102	70	130			
Selenium	0.513	mg/L	0.0020	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18911		
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-C104018			07/10/08 11:21		
Uranium	0.532	mg/L	0.00032	106	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate			Run: SUB-C104018			07/10/08 11:26		
Arsenic	0.523	mg/L	0.0010	104	70	130	1.1	20	
Copper	0.506	mg/L	0.010	99	70	130	2.0	20	
Lead	0.510	mg/L	0.050	102	70	130	0.7	20	
Manganese	4.36	mg/L	0.010	109	70	130	1.0	20	
Molybdenum	0.513	mg/L	0.10	103	70	130	0.5	20	
Selenium	0.508	mg/L	0.0020	102	70	130	0.9	20	
Uranium	0.536	mg/L	0.00032	107	70	130	0.8	20	
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-C104345			07/17/08 08:20		
Antimony	5.82	mg/L	0.050	116	70	130			
Arsenic	5.26	mg/L	0.0010	105	70	130			
Barium	5.58	mg/L	0.10	111	70	130			
Beryllium	2.89	mg/L	0.010	116	70	130			
Cadmium	2.45	mg/L	0.010	98	70	130			
Chromium	5.14	mg/L	0.050	103	70	130			
Copper	4.77	mg/L	0.010	95	70	130			
Lead	5.26	mg/L	0.050	105	70	130			
Manganese	43.0	mg/L	0.010	165	70	130			S
Molybdenum	5.34	mg/L	0.10	107	70	130			
Nickel	4.81	mg/L	0.050	96	70	130			
Selenium	5.02	mg/L	0.0020	100	70	130			
Silver	0.439	mg/L	0.010	88	70	130			
Strontium	57.2	mg/L	0.10	1050	70	130			S
Thallium	5.34	mg/L	0.10	107	70	130			
Uranium	6.14	mg/L	0.00032	123	70	130			
Zinc	5.30	mg/L	0.010	104	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate			Run: SUB-C104345			07/17/08 08:25		
Antimony	5.82	mg/L	0.050	116	70	130	0.0	20	
Arsenic	5.12	mg/L	0.0010	102	70	130	2.8	20	
Barium	5.64	mg/L	0.10	113	70	130	1.1	20	
Beryllium	2.89	mg/L	0.010	116	70	130	0.2	20	
Cadmium	2.44	mg/L	0.010	98	70	130	0.2	20	
Chromium	5.25	mg/L	0.050	105	70	130	2.2	20	
Copper	4.68	mg/L	0.010	93	70	130	2.0	20	
Lead	5.37	mg/L	0.050	107	70	130	2.1	20	
Manganese	44.1	mg/L	0.010	169	70	130	2.5	20	S
Molybdenum	5.34	mg/L	0.10	107	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18911		
Sample ID: R08060335-001D		Sample Matrix Spike Duplicate			Run: SUB-C104345			07/17/08 08:25	
Nickel	4.68	mg/L	0.050	94	70	130	2.6	20	
Selenium	4.89	mg/L	0.0020	98	70	130	2.6	20	
Silver	0.442	mg/L	0.010	88	70	130	0.6	20	
Strontium	57.4	mg/L	0.10	1050	70	130	0.2	20	S
Thallium	5.36	mg/L	0.10	107	70	130	0.3	20	
Uranium	6.31	mg/L	0.00032	126	70	130	2.7	20	
Zinc	5.15	mg/L	0.010	101	70	130	2.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104438		
Sample ID: LRB	Method Blank			Run: SUB-C104438			07/17/08 11:20		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	4E-05	mg/L	3E-05						
Thorium 232	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104438			07/17/08 11:26		
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Cadmium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0517	mg/L	0.0010	103	85	115			
Lead	0.0515	mg/L	0.0010	103	85	115			
Mercury	0.00546	mg/L	0.0010	109	85	115			
Silver	0.0201	mg/L	0.0010	100	85	115			
Thorium 232	0.0506	mg/L	0.0010	101	85	115			
Uranium	0.0509	mg/L	0.00030	102	85	115			
Sample ID: C08060995-004AMS4	Post Digestion Spike			Run: SUB-C104438			07/17/08 16:47		
Arsenic	0.0487	mg/L	0.0010	95	70	130			
Cadmium	0.0441	mg/L	0.010	88	70	130			
Copper	0.0468	mg/L	0.010	86	70	130			
Lead	0.0482	mg/L	0.050	96	70	130			
Mercury	0.00512	mg/L	0.0010	102	70	130			
Silver	0.0147	mg/L	0.010	74	70	130			
Thorium 232	0.0507	mg/L	0.0010	101	70	130			
Uranium	0.0584	mg/L	0.00030	101	70	130			
Sample ID: C08060995-004AMSD4	Post Digestion Spike Duplicate			Run: SUB-C104438			07/17/08 16:54		
Arsenic	0.0505	mg/L	0.0010	99	70	130	3.5	20	
Cadmium	0.0441	mg/L	0.010	88	70	130	0.1	20	
Copper	0.0485	mg/L	0.010	90	70	130	3.7	20	
Lead	0.0484	mg/L	0.050	97	70	130	0.0	20	
Mercury	0.00516	mg/L	0.0010	103	70	130	0.8	20	
Silver	0.0148	mg/L	0.010	74	70	130	0.7	20	
Thorium 232	0.0514	mg/L	0.0010	103	70	130	1.3	20	
Uranium	0.0586	mg/L	0.00030	102	70	130	0.4	20	
Sample ID: C08061333-001CMS4	Post Digestion Spike			Run: SUB-C104438			07/17/08 20:17		
Arsenic	0.0486	mg/L	0.0010	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104438		
Sample ID: C08061333-001CMS4	Post Digestion Spike			Run: SUB-C104438			07/17/08 20:17		
Cadmium	0.0455	mg/L	0.010	91	70	130			
Copper	0.0450	mg/L	0.010	90	70	130			
Lead	0.0481	mg/L	0.050	95	70	130			
Mercury	0.00500	mg/L	0.0010	100	70	130			
Silver	0.0110	mg/L	0.010	55	70	130			S
Thorium 232	0.0492	mg/L	0.0010	98	70	130			
Uranium	0.0537	mg/L	0.00030	97	70	130			
Sample ID: C08061333-001CMSD4	Post Digestion Spike Duplicate			Run: SUB-C104438			07/17/08 20:24		
Arsenic	0.0482	mg/L	0.0010	95	70	130	0.9	20	
Cadmium	0.0459	mg/L	0.010	92	70	130	0.9	20	
Copper	0.0453	mg/L	0.010	90	70	130	0.7	20	
Lead	0.0479	mg/L	0.050	95	70	130	0.0	20	
Mercury	0.00503	mg/L	0.0010	101	70	130	0.6	20	
Silver	0.0128	mg/L	0.010	64	70	130	16	20	S
Thorium 232	0.0491	mg/L	0.0010	97	70	130	0.1	20	
Uranium	0.0536	mg/L	0.00030	97	70	130	0.2	20	
Method: E245.1							Batch: B_33204		
Sample ID: MB-33204	Method Blank			Run: SUB-B113209			06/30/08 07:09		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33204	Laboratory Fortified Blank			Run: SUB-B113209			06/30/08 07:12		
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: R08060335-001D	Sample Matrix Spike			Run: SUB-B113209			06/30/08 08:31		
Mercury	0.0021	mg/L	0.0010	103	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate			Run: SUB-B113209			06/30/08 08:33		
Mercury	0.0020	mg/L	0.0010	99	70	130	4.0	30	
Method: E245.1							Analytical Run: SUB-B113209		
Sample ID: QCS	Initial Calibration Verification Standard						06/30/08 06:57		
Mercury	0.0019	mg/L	0.0010	97	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35577		
Sample ID: LFB0806190922-3	Laboratory Fortified Blank			Run: DIONEX_080619A			06/19/08 17:04		
Chloride	4.62	mg/L	0.50	92	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: LFB0806190922-4	Laboratory Fortified Blank			Run: DIONEX_080619A			06/19/08 17:20		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08060335-001AMS	Sample Matrix Spike			Run: DIONEX_080619A			06/20/08 00:43		
Chloride	244	mg/L	5.4	87	80	120			
Fluoride	93.4	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	117	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1890	mg/L	3.4	87	80	120			
Sample ID: R08060335-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080619A			06/20/08 01:00		
Chloride	240	mg/L	5.4	85	80	120	2.0	10	
Fluoride	91.0	mg/L	0.56	83	80	120	2.6	10	
Nitrogen, Nitrate as N	114	mg/L	1.3	91	80	120	2.4	10	
Nitrogen, Nitrite as N	121	mg/L	2.9	97	80	120	2.5	10	
Sulfate	1870	mg/L	3.4	85	80	120	0.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0481		
Sample ID: MB-GrAB-0481	Method Blank				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	-1	pCi/L							U
Gross Beta	-6	pCi/L							U
Sample ID: UNAT-GrAB-0481	Laboratory Control Sample				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	140	pCi/L	103	70	130				
Sample ID: Cs137-GrAB-0481	Laboratory Control Sample				Run: SUB-C104629			07/21/08 10:42	
Gross Beta	90	pCi/L	103	70	130				
Sample ID: C08070009-010DMS	Sample Matrix Spike				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	145	pCi/L	105	70	130				
Sample ID: C08070009-010DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	127	pCi/L	92	70	130	13	18.1		
Sample ID: C08070009-010DMS	Sample Matrix Spike				Run: SUB-C104629			07/21/08 10:42	
Gross Beta	88.7	pCi/L	87	70	130				
Sample ID: C08070009-010DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104629			07/21/08 10:42	
Gross Beta	98.5	pCi/L	97	70	130	11	16.1		
Method: E901.1							Batch: C_R103216		
Sample ID: LCS-R103216	Laboratory Control Sample				Run: SUB-C103216			06/20/08 16:37	
Cesium 137	457000	pCi/Filter	20	106	70	130			
Cobalt 60	325000	pCi/Filter	20	102	70	130			
Sample ID: MB-R103216	Method Blank				Run: SUB-C103216			06/20/08 16:37	
Gross Gamma		pCi/Filter	20						U
Sample ID: C08060794-001ADUP	Sample Duplicate				Run: SUB-C103216			06/20/08 16:37	
Gross Gamma		pCi/Filter	20				0.0	30	U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_18917		
Sample ID: C08060995-004KMS Radium 226	Sample Matrix Spike				Run: SUB-C104309				07/15/08 14:46
	160	pCi/L	100	70	130				
Sample ID: C08060995-004KMSD Radium 226	Sample Matrix Spike Duplicate				Run: SUB-C104309				07/15/08 14:46
	170	pCi/L	110	70	130	9.7	24.6		
Sample ID: LCS-18917 Radium 226	Laboratory Control Sample				Run: SUB-C104309				07/15/08 14:46
	16	pCi/L	112	70	130				
Sample ID: MB-18917 Radium 226	Method Blank				Run: SUB-C104309				07/15/08 16:22
	-2	pCi/L							U
Method: E903.0							Batch: C_RA226-2918		
Sample ID: MB-RA226-2918 Radium 226	Method Blank				Run: SUB-C104311				07/16/08 07:03
	0.1	pCi/L							
Sample ID: C08060981-001AMS Radium 226	Sample Matrix Spike				Run: SUB-C104311				07/16/08 07:03
	19	pCi/L	109	70	130				
Sample ID: C08060981-001AMSD Radium 226	Sample Matrix Spike Duplicate				Run: SUB-C104311				07/16/08 07:03
	19	pCi/L	108	70	130	0.6	21		
Sample ID: LCS-RA226-2918 Radium 226	Laboratory Control Sample				Run: SUB-C104311				07/16/08 08:37
	8.2	pCi/L	102	70	130				
Method: E907.0							Batch: C_18917		
Sample ID: R08060335-0011 Thorium 230	Sample Matrix Spike				Run: SUB-C104217				07/13/08 18:14
	19.7	pCi/L	0.20	85	70	130			
Sample ID: R08060335-0011 Thorium 230	Sample Matrix Spike Duplicate				Run: SUB-C104217				07/13/08 18:14
	21.7	pCi/L	0.20	96	70	130	9.5	30	
Sample ID: LCS-18917 Thorium 230	Laboratory Control Sample				Run: SUB-C104217				07/13/08 18:14
	51.9	pCi/L	0.20	108	70	130			
Sample ID: MB-18917 Thorium 230	Method Blank				Run: SUB-C104217				07/13/08 18:14
	0.7	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0566		
Sample ID: LCS-RA-TH-ISO-0566	Laboratory Control Sample				Run: SUB-C104779				07/21/08 16:02
Thorium 230	6.43	pCi/L	0.20	105	70	130			
Sample ID: C08061025-003BMS	Sample Matrix Spike				Run: SUB-C104779				07/21/08 16:13
Thorium 230	15.8	pCi/L	0.20	96	70	130			
Sample ID: C08061025-003BMSD	Sample Matrix Spike Duplicate				Run: SUB-C104779				07/21/08 16:14
Thorium 230	14.3	pCi/L	0.20	89	70	130	9.5	30	
Sample ID: MB-RA-TH-ISO-0566	Method Blank				Run: SUB-C104779				07/17/08 12:48
Thorium 230	0.05	pCi/L							U
Method: E909.0M							Batch: C_18917		
Sample ID: C08060943-002FMS	Sample Matrix Spike				Run: SUB-C105224				07/14/08 09:30
Lead 210	1300	pCi/L		111	70	130			
Sample ID: C08060943-002FMSD	Sample Matrix Spike Duplicate				Run: SUB-C105224				07/14/08 09:30
Lead 210	830	pCi/L		71	70	130	44	30	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R105224	Method Blank				Run: SUB-C105224				07/14/08 09:30
Lead 210	5	pCi/L							U
Sample ID: LCS-R105224	Laboratory Control Sample				Run: SUB-C105224				07/14/08 09:30
Lead 210	120	pCi/L		95	70	130			
Method: E909.0M							Batch: C_R105675		
Sample ID: C08070067-003AMS	Sample Matrix Spike				Run: SUB-C105675				07/18/08 08:20
Lead 210	640	pCi/L		110	70	130			
Sample ID: C08070067-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105675				07/18/08 08:20
Lead 210	540	pCi/L		92	70	130	18	30	
Sample ID: MB-R105675	Method Blank				Run: SUB-C105675				07/18/08 08:20
Lead 210	-2	pCi/L							U
Sample ID: LCS-R105675	Laboratory Control Sample				Run: SUB-C105675				07/18/08 08:20
Lead 210	110	pCi/L		94	70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060335

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_18917		
Sample ID: C08060943-001FMS Polonium 210	Sample Matrix Spike 29	pCi/L	1.0	128	70	130			08/18/08 17:00
									Run: SUB-C106132
Sample ID: C08060943-001FMSD Polonium 210	Sample Matrix Spike Duplicate 22	pCi/L	1.0	99	70	130	25	30	08/18/08 17:00
									Run: SUB-C106132
Sample ID: MB-R106132 Polonium 210	Method Blank -0.09	pCi/L							08/18/08 17:00 U
									Run: SUB-C106132
Sample ID: LCS-R106132 Polonium 210	Laboratory Control Sample 84	pCi/L	1.0	97	70	130			08/18/08 17:00
									Run: SUB-C106132
Method: RMO-3008							Batch: C_R104442		
Sample ID: C08061021-004EMS Polonium 210	Sample Matrix Spike 65	pCi/L	1.0	73	70	130			07/09/08 18:40
									Run: SUB-C104442
Sample ID: C08061021-004EMSD Polonium 210	Sample Matrix Spike Duplicate 75	pCi/L	1.0	85	70	130	14	30	07/09/08 18:40
									Run: SUB-C104442
Sample ID: LCS-R104442 Polonium 210	Laboratory Control Sample 44	pCi/L	1.0	103	70	130			07/09/08 18:40
									Run: SUB-C104442
Sample ID: MB-R104442 Polonium 210	Method Blank -0.3	pCi/L							07/09/08 18:40 U
									Run: SUB-C104442

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. Riverkel Dens Bunkle		Sample Origin State: _____	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Phone/Fax: Cory Foreman @ respec.com		Email:	Sampler: (Please Print) Eric Kantz
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quota/Bottle Order:
Special Report/Formats - ELL must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers _____ Sample Type: A W S V B O <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Soils/Solids <input type="checkbox"/> Vegetation <input type="checkbox"/> Bioassay <input type="checkbox"/> Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	
1 Pembund GWL 19		6/17/08	18:10	W	
2					
3					
4					
5					
6					
7					
8					
9					
10					
Custody Record MUST be Signed		Relinquished by (print): Eric Kantz	Date/Time: 6/17/08 09:10	Signature: <i>[Signature]</i>	Received by (print): Steve Hailand
		Relinquished by (print): Mark Stollenberg	Date/Time: 6/18/08 08:50	Signature: <i>[Signature]</i>	Received by (print): Steve Hailand
		Sample Disposal: _____	Return to Client: _____	Lab Disposal: _____	
ANALYSIS REQUESTED					
SEE ATTACHED					
Normal Turnaround (TAT)					
R U S H					
		Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page		Comments: GW	
		Receipt Temp _____ °C		On Ice: Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Custody Seal Y <input type="checkbox"/> N <input type="checkbox"/>		Initiat Y <input type="checkbox"/> N <input type="checkbox"/>	
		Signature Y <input type="checkbox"/> N <input type="checkbox"/>		Match Y <input type="checkbox"/> N <input type="checkbox"/>	
LABORATORY USE ONLY					

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

August 21, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08060427 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 7 samples from RESPEC Inc on 6/25/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060427-001	DewBurd GW698	06/24/08 11:55	06/25/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08060427-002	DewBurd GW696	06/24/08 15:08	06/25/08	Aqueous	Same As Above
R08060427-003	DewBurd GW694	06/24/08 15:16	06/25/08	Aqueous	Same As Above
R08060427-004	DewBurd GW695	06/24/08 17:30	06/25/08	Aqueous	Same As Above
R08060427-005	DewBurd GW697	06/24/08 18:20	06/25/08	Aqueous	Same As Above
R08060427-006	DewBurd GW3026	06/24/08 20:06	06/25/08	Aqueous	Same As Above



R08060427-007 DewBurd BLK01

06/24/08 20:10 06/25/08

Aqueous

Metals by ICP/ICPMS, Dissolved
Metals by ICP/ICPMS, Suspended
Metals by ICP/ICPMS, Total
Alkalinity
Conductivity
Mercury, Total
Selenium, Dissolved
Selenium, Dissolved
Selenium, Dissolved
Anions by Ion Chromatography
Nitrogen, Ammonia
Oxidation Reduction Potential
pH
Digestion, Total Metals
Digestion, Total Metals
Dissolved Filtration
Digestion, Mercury by CVAA
Gross Alpha, Gross Beta
Gross Gamma, Dissolved
Lead 210, Dissolved
Lead 210, Suspended
Polonium 210, Dissolved
Polonium 210, Suspended
Radium 226, Dissolved
Radium 226, Suspended
Radon 222
Thorium, Isotopic
Thorium, Suspended Isotopic
Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson

Rapid City - Project Manager



Date: 21-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060427

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08061394

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08061394



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-001
 Client Sample ID: DewBurd GW698

Report Date: 08/21/08
 Collection Date: 06/24/08 11:55
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	114	mg/L		5			1	A2320 B	07/03/08 11:29/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:29/mb
Bicarbonate as HCO3	139	mg/L		5			1	A2320 B	07/03/08 11:29/mb
Calcium	393	mg/L		0.5			2	E200.7	07/07/08 18:09/eli-c
Chloride	9	mg/L		1			1	E300.0	06/26/08 21:12/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	06/26/08 21:12/jmh
Magnesium	141	mg/L		0.5			2	E200.7	07/07/08 18:09/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	06/25/08 15:44/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/26/08 21:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/26/08 21:12/jmh
Potassium	15.9	mg/L		0.5			2	E200.7	07/07/08 18:09/eli-c
Silica	5.5	mg/L		0.5			2	E200.7	07/07/08 18:09/eli-c
Sodium	89	mg/L	D	2			2	E200.7	07/07/08 18:09/eli-c
Sulfate	1470	mg/L		1			20	E300.0	06/26/08 20:56/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2530	umhos/cm		5.0			1	A2510 B	07/01/08 11:07/tb
Oxidation-Reduction Potential	94	mV					1	A2580 B	06/27/08 00:00/jmh
pH	7.09	s.u.		0.01			1	A4500-H B	07/01/08 10:03/tb
Sodium Adsorption Ratio (SAR)	0.98	unitless		0.10			1	Calculation	08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5			1	A2540 C	06/27/08 11:54/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/07/08 18:09/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/15/08 18:06/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 18:09/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 18:09/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 18:06/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 18:09/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 18:06/eli-c
Iron	1.60	mg/L		0.03			2	E200.7	07/07/08 18:09/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 18:06/eli-c
Manganese	2.56	mg/L		0.01			2	E200.7	07/07/08 18:09/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 18:06/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 18:09/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 18:09/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 16:11/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 18:06/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-001
 Client Sample ID: DewBurd GW698

Report Date: 08/21/08
 Collection Date: 06/24/08 11:55
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/15/08 18:06/eli-c
Uranium	0.104	mg/L		0.0003		1	E200.8 07/15/08 18:06/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/07/08 18:09/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7 07/07/08 18:09/eli-c
METALS - SUSPENDED							
Uranium	0.0043	mg/L		0.0003		1	E200.8 07/10/08 12:15/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 13:13/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1790	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Alpha precision (±)	40.7	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Alpha MDC	8.0	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta	470	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta precision (±)	11.1	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta MDC	8.7	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Lead 210	-1.7	pCi/L	U			1	E909.0M 07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	429	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Radium 226 precision (±)	4.4	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/28/08 15:49/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0 07/28/08 15:49/eli-c
Gross Gamma	170	pCi/L		20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	38	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	7.4	pCi/L	U			1	E909.0M 07/08/08 06:20/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Polonium 210	1.2	pCi/L		1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.78	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	11.6	pCi/L				1	E903.0 07/15/08 23:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-001
 Client Sample ID: DewBurd GW698

Report Date: 08/21/08
 Collection Date: 06/24/08 11:55
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	1.1	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.7	pCi/L		0.2			1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	40700	pCi/L		100			1	D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	418	pCi/L					1	D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/17/08 00:31/eli-c
Arsenic	0.005	mg/L	D	0.003			10	E200.8	07/17/08 00:31/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 02:29/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 13:41/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 02:29/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/17/08 00:31/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 02:29/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/08/08 02:29/eli-c
Iron	5.48	mg/L		0.03			2	E200.7	07/08/08 02:29/eli-c
Lead	0.001	mg/L		0.001			10	E200.8	07/17/08 00:31/eli-c
Manganese	2.66	mg/L		0.01			2	E200.7	07/08/08 02:29/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/07/08 21:18/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 02:29/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 02:29/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/17/08 00:31/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 13:41/eli-c
Strontium	5.2	mg/L		0.1			2	E200.7	07/08/08 02:29/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/17/08 00:31/eli-c
Uranium	0.113	mg/L		0.0003			10	E200.8	07/17/08 00:31/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	07/08/08 02:29/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.88	%					1	A1030 E	08/21/08 00:00/kl
Anions	33.1	meq/L					1	A1030 E	08/21/08 00:00/kl
Cations	35.8	meq/L					1	A1030 E	08/21/08 00:00/kl
Solids, Total Dissolved Calculated	2200	mg/L					1	A1030 E	08/21/08 00:00/kl
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	08/21/08 00:00/kl

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-002
 Client Sample ID: DewBurd GW696

Report Date: 08/21/08
 Collection Date: 06/24/08 15:08
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B	07/03/08 11:32/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/03/08 11:32/mb
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B	07/03/08 11:32/mb
Calcium	31.6	mg/L		0.5		2	E200.7	07/07/08 18:22/eli-c
Chloride	12	mg/L		1		1	E300.0	06/26/08 21:45/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	06/26/08 21:45/jmh
Magnesium	11.1	mg/L		0.5		2	E200.7	07/07/08 18:22/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	06/25/08 15:47/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/26/08 21:45/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	06/26/08 21:45/jmh
Potassium	9.4	mg/L		0.5		2	E200.7	07/07/08 18:22/eli-c
Silica	5.0	mg/L		0.5		2	E200.7	07/07/08 18:22/eli-c
Sodium	295	mg/L	D	2		2	E200.7	07/07/08 18:22/eli-c
Sulfate	456	mg/L		1		20	E300.0	06/26/08 21:29/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1390	umhos/cm		5.0		1	A2510 B	07/01/08 11:07/tb
Oxidation-Reduction Potential	99	mV				1	A2580 B	06/27/08 00:00/jmh
pH	8.29	s.u.		0.01		1	A4500-H B	07/01/08 10:04/tb
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C	06/27/08 11:56/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/07/08 18:22/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/15/08 18:39/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/07/08 18:22/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/07/08 18:22/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/15/08 18:39/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/07/08 18:22/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/15/08 18:39/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	07/07/08 18:22/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/15/08 18:39/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7	07/07/08 18:22/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/15/08 18:39/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/07/08 18:22/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/07/08 18:22/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/19/08 16:13/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/15/08 18:39/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-002
 Client Sample ID: DewBurd GW696

Report Date: 08/21/08
 Collection Date: 06/24/08 15:08
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/15/08 18:39/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 07/15/08 18:39/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/07/08 18:22/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/07/08 18:22/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/10/08 12:20/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 13:15/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	23.9	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Alpha MDC	4.0	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta	9.9	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Gross Beta MDC	3.8	pCi/L				1	E900.0 07/19/08 01:30/eli-c
Lead 210	-5.3	pCi/L	U			1	E909.0M 07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	3.3	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/28/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 07/28/08 20:05/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	5.6	pCi/L	U			1	E909.0M 07/08/08 06:20/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0 07/15/08 23:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060427-002
Client Sample ID: DewBurd GW696

Report Date: 08/21/08
Collection Date: 06/24/08 15:08
Date Received: 06/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	07/15/08 23:30/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1 E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	517	pCi/L		100		1 D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	136	pCi/L				1 D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	07/17/08 00:38/eli-c
Arsenic	ND	mg/L	D	0.002		10 E200.8	07/17/08 00:38/eli-c
Barium	ND	mg/L		0.1		2 E200.7	07/08/08 02:34/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	07/17/08 14:08/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/08/08 02:34/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	07/17/08 00:38/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/08/08 02:34/eli-c
Copper	ND	mg/L		0.01		2 E200.7	07/08/08 02:34/eli-c
Iron	0.67	mg/L		0.03		2 E200.7	07/08/08 02:34/eli-c
Lead	ND	mg/L		0.001		10 E200.8	07/17/08 00:38/eli-c
Manganese	0.07	mg/L		0.01		2 E200.7	07/08/08 02:34/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/09/08 11:42/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/08/08 02:34/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/08/08 02:34/eli-c
Selenium	ND	mg/L	D	0.002		10 E200.8	07/17/08 00:38/eli-c
Silver	ND	mg/L		0.005		1 E200.8	07/17/08 14:08/eli-c
Strontium	0.8	mg/L		0.1		2 E200.7	07/08/08 02:34/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	07/17/08 00:38/eli-c
Uranium	ND	mg/L		0.0003		10 E200.8	07/17/08 00:38/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	07/08/08 02:34/eli-c
DATA QUALITY							
A/C Balance (± 5)	7.89	%				1 A1030 E	08/21/08 00:00/kl
Anions	13.3	meq/L				1 A1030 E	08/21/08 00:00/kl
Cations	15.6	meq/L				1 A1030 E	08/21/08 00:00/kl
Solids, Total Dissolved Calculated	934	mg/L				1 A1030 E	08/21/08 00:00/kl
TDS Balance (0.80 - 1.20)	0.990					1 A1030 E	08/21/08 00:00/kl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-003
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 06/24/08 15:16
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	206	mg/L		5			1	A2320 B	07/03/08 11:36/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:36/mb
Bicarbonate as HCO3	251	mg/L		5			1	A2320 B	07/03/08 11:36/mb
Calcium	103	mg/L		0.5			2	E200.7	07/07/08 18:38/eli-c
Chloride	9	mg/L		1			1	E300.0	06/26/08 22:18/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	06/26/08 22:18/jmh
Magnesium	37.1	mg/L		0.5			2	E200.7	07/07/08 18:38/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	06/25/08 15:48/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/26/08 22:18/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/26/08 22:18/jmh
Potassium	13.6	mg/L		0.5			2	E200.7	07/07/08 18:38/eli-c
Silica	4.6	mg/L		0.5			2	E200.7	07/07/08 18:38/eli-c
Sodium	180	mg/L	D	2			2	E200.7	07/07/08 18:38/eli-c
Sulfate	486	mg/L		1			20	E300.0	06/26/08 22:02/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1400	umhos/cm		5.0			1	A2510 B	07/01/08 11:08/tb
Oxidation-Reduction Potential	140	mV					1	A2580 B	06/27/08 00:00/jmh
pH	7.82	s.u.		0.01			1	A4500-H B	07/01/08 10:05/tb
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.10			1	Calculation	08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5			1	A2540 C	06/27/08 11:57/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/07/08 18:38/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	07/15/08 18:12/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 18:38/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 18:38/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 18:12/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 18:38/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 18:12/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/07/08 18:38/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 18:12/eli-c
Manganese	0.16	mg/L		0.01			2	E200.7	07/07/08 18:38/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 18:12/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 18:38/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 18:38/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 16:15/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 18:12/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-003
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 06/24/08 15:16
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	07/15/08 18:12/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	07/15/08 18:12/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/07/08 18:38/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/07/08 18:38/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/10/08 12:25/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:17/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	23.7	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha MDC	3.9	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta	15.0	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta MDC	3.8	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Lead 210	-0.1	pCi/L	U			1	E909.0M	07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Lead 210 precision (±)	6.8	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	2.2	pCi/L				1	E903.0	07/21/08 22:27/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	07/21/08 22:27/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	07/29/08 12:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/29/08 12:45/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.8	pCi/L	U			1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	07/15/08 23:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-003
 Client Sample ID: DewBurd GW694

Report Date: 08/21/08
 Collection Date: 06/24/08 15:16
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/11/08 17:07/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/11/08 17:07/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	611	pCi/L		100			1	D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	137	pCi/L					1	D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/17/08 00:45/eli-c
Arsenic	ND	mg/L	D	0.003			10	E200.8	07/17/08 00:45/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 02:38/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 14:15/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 02:38/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/17/08 00:45/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 02:38/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/08/08 02:38/eli-c
Iron	0.14	mg/L		0.03			2	E200.7	07/08/08 02:38/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/17/08 00:45/eli-c
Manganese	0.16	mg/L		0.01			2	E200.7	07/08/08 02:38/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/09/08 11:49/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 02:38/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 02:38/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/17/08 00:45/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 14:15/eli-c
Strontium	2.9	mg/L		0.1			2	E200.7	07/08/08 02:38/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/17/08 00:45/eli-c
Uranium	0.0006	mg/L		0.0003			10	E200.8	07/17/08 00:45/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/08/08 02:38/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.22	%					1	A1030 E	08/21/08 00:00/kl
Anions	14.5	meq/L					1	A1030 E	08/21/08 00:00/kl
Cations	16.4	meq/L					1	A1030 E	08/21/08 00:00/kl
Solids, Total Dissolved Calculated	965	mg/L					1	A1030 E	08/21/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.00						1	A1030 E	08/21/08 00:00/kl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-004
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 06/24/08 17:30
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	174	mg/L		5			1	A2320 B	07/03/08 11:40/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:40/mb
Bicarbonate as HCO3	212	mg/L		5			1	A2320 B	07/03/08 11:40/mb
Calcium	52.5	mg/L		0.5			2	E200.7	07/07/08 18:42/eli-c
Chloride	11	mg/L		1			1	E300.0	06/26/08 23:57/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	06/26/08 23:57/jmh
Magnesium	18.8	mg/L		0.5			2	E200.7	07/07/08 18:42/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	06/25/08 15:49/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/26/08 23:57/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/26/08 23:57/jmh
Potassium	8.7	mg/L		0.5			2	E200.7	07/07/08 18:42/eli-c
Silica	4.4	mg/L		0.5			2	E200.7	07/07/08 18:42/eli-c
Sodium	250	mg/L	D	2			2	E200.7	07/07/08 18:42/eli-c
Sulfate	442	mg/L		1			20	E300.0	06/26/08 23:07/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1380	umhos/cm		5.0			1	A2510 B	07/01/08 11:09/tb
Oxidation-Reduction Potential	120	mV					1	A2580 B	06/27/08 00:00/jmh
pH	8.14	s.u.		0.01			1	A4500-H B	07/01/08 10:05/tb
Sodium Adsorption Ratio (SAR)	7.5	unitless		0.10			1	Calculation	08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5			1	A2540 C	06/27/08 11:57/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/07/08 18:42/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/15/08 17:59/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 18:42/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 18:42/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 17:59/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 18:42/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 17:59/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/07/08 18:42/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 17:59/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	07/07/08 18:42/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 17:59/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 18:42/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 18:42/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 16:17/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 17:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-004
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 06/24/08 17:30
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	07/15/08 17:59/eli-c
Uranium	0.0027	mg/L		0.0003		1	E200.8	07/15/08 17:59/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/07/08 18:42/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/07/08 18:42/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/10/08 12:30/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:19/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	39.7	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha precision (±)	4.8	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha MDC	4.0	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta	11.0	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Lead 210	0.7	pCi/L	U			1	E909.0M	07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Lead 210 precision (±)	6.8	pCi/L				1	E909.0M	07/11/08 07:20/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	5.2	pCi/L				1	E903.0	07/21/08 22:27/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/28/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/28/08 20:05/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	2.9	pCi/L	U			1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	07/15/08 23:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-004
 Client Sample ID: DewBurd GW695

Report Date: 08/21/08
 Collection Date: 06/24/08 17:30
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/11/08 17:07/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/11/08 17:07/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	2120	pCi/L		100			1	D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	154	pCi/L					1	D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/17/08 00:51/eli-c
Arsenic	ND	mg/L		0.001			10	E200.8	07/17/08 00:51/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 02:42/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 14:22/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 02:42/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/17/08 00:51/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 02:42/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/08/08 02:42/eli-c
Iron	0.12	mg/L		0.03			2	E200.7	07/08/08 02:42/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/17/08 00:51/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	07/08/08 02:42/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/09/08 11:51/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 02:42/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 02:42/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/17/08 00:51/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 14:22/eli-c
Strontium	1.0	mg/L		0.1			2	E200.7	07/08/08 02:42/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/17/08 00:51/eli-c
Uranium	0.0027	mg/L		0.0003			10	E200.8	07/17/08 00:51/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/08/08 02:42/eli-c
DATA QUALITY									
A/C Balance (± 5)	7.98	%					1	A1030 E	08/21/08 00:00/kl
Anions	13.0	meq/L					1	A1030 E	08/21/08 00:00/kl
Cations	15.3	meq/L					1	A1030 E	08/21/08 00:00/kl
Solids, Total Dissolved Calculated	901	mg/L					1	A1030 E	08/21/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.02						1	A1030 E	08/21/08 00:00/kl

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 12 of 21
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-005
 Client Sample ID: DewBurd GW697

Report Date: 08/21/08
 Collection Date: 06/24/08 18:20
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B 07/03/08 11:42/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/03/08 11:42/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B 07/03/08 11:42/mb
Calcium	53.4	mg/L		0.5		2	E200.7 07/07/08 18:46/eli-c
Chloride	8	mg/L		1		1	E300.0 06/27/08 00:29/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 06/27/08 00:29/jmh
Magnesium	17.7	mg/L		0.5		2	E200.7 07/07/08 18:46/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G 06/25/08 15:51/ch
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0 06/27/08 00:29/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 06/27/08 00:29/jmh
Potassium	8.8	mg/L		0.5		2	E200.7 07/07/08 18:46/eli-c
Silica	4.6	mg/L		0.5		2	E200.7 07/07/08 18:46/eli-c
Sodium	218	mg/L	D	2		2	E200.7 07/07/08 18:46/eli-c
Sulfate	409	mg/L		1		20	E300.0 06/27/08 00:13/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1230	umhos/cm		5.0		1	A2510 B 07/01/08 11:10/tb
Oxidation-Reduction Potential	140	mV				1	A2580 B 06/27/08 00:00/jmh
pH	8.25	s.u.		0.01		1	A4500-H B 07/01/08 10:07/tb
Sodium Adsorption Ratio (SAR)	6.6	unitless		0.10		1	Calculation 08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5		1	A2540 C 06/27/08 11:58/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 07/07/08 18:46/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/15/08 18:19/eli-c
Barium	ND	mg/L		0.1		2	E200.7 07/07/08 18:46/eli-c
Boron	ND	mg/L		0.1		2	E200.7 07/07/08 18:46/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/15/08 18:19/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/07/08 18:46/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/15/08 18:19/eli-c
Iron	0.04	mg/L		0.03		2	E200.7 07/07/08 18:46/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/15/08 18:19/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7 07/07/08 18:46/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/15/08 18:19/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 07/07/08 18:46/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/07/08 18:46/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 16:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/15/08 18:19/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-005
 Client Sample ID: DewBurd GW697

Report Date: 08/21/08
 Collection Date: 06/24/08 18:20
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/15/08 18:19/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 07/15/08 18:19/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/07/08 18:46/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/07/08 18:46/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/10/08 12:36/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 13:21/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	11.9	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Gross Alpha MDC	3.2	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Gross Beta	8.1	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0 07/19/08 22:56/eli-c
Lead 210	0.5	pCi/L	U			1	E909.0M 07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 precision (±)	6.8	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	0.8	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/28/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 07/28/08 20:05/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	2.9	pCi/L	U			1	E909.0M 07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0 07/16/08 01:53/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060427-005
Client Sample ID: DewBurd GW697

Report Date: 08/21/08
Collection Date: 06/24/08 18:20
Date Received: 06/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	07/16/08 01:53/eli-c
Radium 226 MDC	0.4	pCi/L				1 E903.0	07/16/08 01:53/eli-c
Thorium 230	0.2	pCi/L		0.2		1 E907.0	07/11/08 17:07/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	07/11/08 17:07/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	413	pCi/L		100		1 D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	132	pCi/L				1 D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	07/17/08 02:47/eli-c
Arsenic	0.003	mg/L	D	0.003		10 E200.8	07/17/08 02:47/eli-c
Barium	0.2	mg/L		0.1		2 E200.7	07/08/08 02:46/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	07/17/08 14:29/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/08/08 02:46/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	07/17/08 02:47/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/08/08 02:46/eli-c
Copper	ND	mg/L		0.01		2 E200.7	07/08/08 02:46/eli-c
Iron	0.08	mg/L		0.03		2 E200.7	07/08/08 02:46/eli-c
Lead	ND	mg/L		0.001		10 E200.8	07/17/08 02:47/eli-c
Manganese	0.06	mg/L		0.01		2 E200.7	07/08/08 02:46/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/09/08 11:53/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/08/08 02:46/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/08/08 02:46/eli-c
Selenium	0.005	mg/L	D	0.002		10 E200.8	07/17/08 02:47/eli-c
Silver	ND	mg/L		0.005		1 E200.8	07/17/08 14:29/eli-c
Strontium	1.2	mg/L		0.1		2 E200.7	07/08/08 02:46/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	07/17/08 02:47/eli-c
Uranium	ND	mg/L		0.0003		10 E200.8	07/17/08 02:47/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	07/08/08 02:46/eli-c
DATA QUALITY							
A/C Balance (± 5)	6.52	%				1 A1030 E	08/21/08 00:00/ikl
Anions	12.1	meq/L				1 A1030 E	08/21/08 00:00/ikl
Cations	13.8	meq/L				1 A1030 E	08/21/08 00:00/ikl
Solids, Total Dissolved Calculated	829	mg/L				1 A1030 E	08/21/08 00:00/ikl
TDS Balance (0.80 - 1.20)	0.970					1 A1030 E	08/21/08 00:00/ikl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-006
 Client Sample ID: DewBurd GW3026

Report Date: 08/21/08
 Collection Date: 06/24/08 20:06
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	172	mg/L		5			1	A2320 B	07/03/08 11:46/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:46/mb
Bicarbonate as HCO3	210	mg/L		5			1	A2320 B	07/03/08 11:46/mb
Calcium	461	mg/L		0.5			2	E200.7	07/07/08 18:50/eli-c
Chloride	15	mg/L		1			1	E300.0	06/27/08 01:02/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	06/27/08 01:02/jmh
Magnesium	137	mg/L		0.5			2	E200.7	07/07/08 18:50/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1			1	A4500-NH3 G	06/25/08 15:52/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/27/08 01:02/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/27/08 01:02/jmh
Potassium	22.3	mg/L		0.5			2	E200.7	07/07/08 18:50/eli-c
Silica	1.9	mg/L		0.5			2	E200.7	07/07/08 18:50/eli-c
Sodium	171	mg/L	D	2			2	E200.7	07/07/08 18:50/eli-c
Sulfate	1790	mg/L		1			20	E300.0	06/27/08 00:46/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2970	umhos/cm		5.0			1	A2510 B	07/01/08 11:11/tb
Oxidation-Reduction Potential	85	mV					1	A2580 B	06/27/08 00:00/jmh
pH	6.82	s.u.		0.01			1	A4500-H B	07/01/08 10:08/tb
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.10			1	Calculation	08/21/08 16:50/ADM
Solids, Total Dissolved TDS @ 180 C	2700	mg/L		5			1	A2540 C	06/27/08 11:58/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/07/08 18:50/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/15/08 18:26/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 18:50/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	07/07/08 18:50/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 18:26/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 18:50/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 18:26/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	07/07/08 18:50/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 18:26/eli-c
Manganese	1.42	mg/L		0.01			2	E200.7	07/07/08 18:50/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 18:26/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 18:50/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 18:50/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 16:21/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 18:26/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-006
 Client Sample ID: DewBurd GW3026

Report Date: 08/21/08
 Collection Date: 06/24/08 20:06
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/15/08 18:26/eli-c
Uranium	0.0183	mg/L		0.0003			1	E200.8	07/15/08 18:26/eli-c
Vanadium	0.1	mg/L		0.1			2	E200.7	07/07/08 18:50/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/07/08 18:50/eli-c
METALS - SUSPENDED									
Uranium	0.0015	mg/L		0.0003			1	E200.8	07/10/08 12:41/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/19/08 13:25/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	116	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Gross Alpha precision (±)	12.8	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Gross Alpha MDC	9.9	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Gross Beta	33.9	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Gross Beta precision (±)	6.9	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Gross Beta MDC	10.5	pCi/L					1	E900.0	07/19/08 22:56/eli-c
Lead 210	-5.3	pCi/L	U				1	E909.0M	07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L					1	E909.0M	07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L					1	E909.0M	07/11/08 07:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0			1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.60	pCi/L					1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	4.7	pCi/L					1	E903.0	07/22/08 00:40/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	07/22/08 00:40/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/28/08 20:06/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/28/08 20:06/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	6.9	pCi/L	U				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.5	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0			1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.36	pCi/L					1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.1	pCi/L	U				1	E903.0	07/16/08 01:53/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-006
 Client Sample ID: DewBurd GW3026

Report Date: 08/21/08
 Collection Date: 06/24/08 20:06
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/16/08 01:53/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	07/16/08 01:53/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/11/08 17:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/11/08 17:06/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	950	pCi/L		100			1	D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	137	pCi/L					1	D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/17/08 02:54/eli-c
Arsenic	0.025	mg/L		0.001			10	E200.8	07/17/08 02:54/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 02:50/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 14:36/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	07/08/08 02:50/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/17/08 02:54/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 02:50/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/08/08 02:50/eli-c
Iron	21.8	mg/L		0.03			2	E200.7	07/08/08 02:50/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/17/08 02:54/eli-c
Manganese	1.46	mg/L		0.01			2	E200.7	07/08/08 02:50/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/09/08 11:56/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 02:50/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 02:50/eli-c
Selenium	0.005	mg/L	D	0.002			10	E200.8	07/17/08 02:54/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 14:36/eli-c
Strontium	7.4	mg/L		0.1			2	E200.7	07/08/08 02:50/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/17/08 02:54/eli-c
Uranium	0.0216	mg/L		0.0003			10	E200.8	07/17/08 02:54/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	07/08/08 02:50/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.44	%					1	A1030 E	08/21/08 00:00/kl
Anions	41.2	meq/L					1	A1030 E	08/21/08 00:00/kl
Cations	42.4	meq/L					1	A1030 E	08/21/08 00:00/kl
Solids, Total Dissolved Calculated	2710	mg/L					1	A1030 E	08/21/08 00:00/kl
TDS Balance (0.80 - 1.20)	1.01						1	A1030 E	08/21/08 00:00/kl

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-007
 Client Sample ID: DewBurd BLK01

Report Date: 08/21/08
 Collection Date: 06/24/08 20:10
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B 07/03/08 11:47/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/03/08 11:47/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B 07/03/08 11:47/mb
Calcium	ND	mg/L		0.5		2	E200.7 07/07/08 18:54/eli-c
Chloride	ND	mg/L		1		1	E300.0 06/28/08 05:29/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 06/28/08 05:29/jmh
Magnesium	ND	mg/L		0.5		2	E200.7 07/07/08 18:54/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 06/25/08 15:53/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 06/27/08 01:19/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 06/27/08 01:19/jmh
Potassium	ND	mg/L		0.5		2	E200.7 07/07/08 18:54/eli-c
Silica	ND	mg/L		0.5		2	E200.7 07/07/08 18:54/eli-c
Sodium	ND	mg/L	D	2		2	E200.7 07/07/08 18:54/eli-c
Sulfate	1	mg/L		1		1	E300.0 06/28/08 05:29/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	10.9	umhos/cm		5.0		1	A2510 B 07/01/08 11:12/tb
Oxidation-Reduction Potential	360	mV				1	A2580 B 06/27/08 00:00/jmh
pH	4.52	s.u.		0.01		1	A4500-H B 07/01/08 10:10/tb
Solids, Total Dissolved TDS @ 180 C	20	mg/L		5		1	A2540 C 06/27/08 11:59/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 07/07/08 18:54/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 07/15/08 18:33/eli-c
Barium	ND	mg/L		0.1		2	E200.7 07/07/08 18:54/eli-c
Boron	ND	mg/L		0.1		2	E200.7 07/07/08 18:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/15/08 18:33/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/07/08 18:54/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/15/08 18:33/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/07/08 18:54/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/15/08 18:33/eli-c
Manganese	ND	mg/L		0.01		2	E200.7 07/07/08 18:54/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/15/08 18:33/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 07/07/08 18:54/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/07/08 18:54/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 16:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/15/08 18:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/15/08 18:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-007
 Client Sample ID: DewBurd BLK01

Report Date: 08/21/08
 Collection Date: 06/24/08 20:10
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/15/08 18:33/eli-c
Vanadium	0.2	mg/L		0.1		2 E200.7	07/07/08 18:54/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	07/07/08 18:54/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/10/08 12:46/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/19/08 13:27/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1.7	pCi/L				1 E900.0	07/19/08 22:56/eli-c
Gross Alpha precision (±)	0.7	pCi/L				1 E900.0	07/19/08 22:56/eli-c
Gross Alpha MDC	0.9	pCi/L				1 E900.0	07/19/08 22:56/eli-c
Gross Beta	1.4	pCi/L	U			1 E900.0	07/19/08 22:56/eli-c
Gross Beta precision (±)	1.5	pCi/L				1 E900.0	07/19/08 22:56/eli-c
Gross Beta MDC	2.5	pCi/L				1 E900.0	07/19/08 22:56/eli-c
Lead 210	-3.4	pCi/L	U			1 E909.0M	07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1 E909.0M	07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L				1 E909.0M	07/11/08 07:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1 RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1 RMO-3008	07/14/08 17:45/eli-c
Radium 226	-0.06	pCi/L	U			1 E903.0	07/22/08 00:40/eli-c
Radium 226 precision (±)	0.09	pCi/L				1 E903.0	07/22/08 00:40/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	07/28/08 20:06/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1 E907.0	07/28/08 20:06/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	3.5	pCi/L	U			1 E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L				1 E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1 E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1 RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1 RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	07/16/08 01:53/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	07/16/08 01:53/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060427-007
 Client Sample ID: DewBurd BLK01

Report Date: 08/21/08
 Collection Date: 06/24/08 20:10
 Date Received: 06/25/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.5	pCi/L					1	E903.0	07/16/08 01:53/eli-c
Thorium 230	0.2	pCi/L		0.2			1	E907.0	07/11/08 17:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/11/08 17:06/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	362	pCi/L		100			1	D5072-92	07/02/08 04:29/eli-c
Radon 222 precision (±)	129	pCi/L					1	D5072-92	07/02/08 04:29/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	07/10/08 01:43/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	07/10/08 01:43/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/08/08 02:54/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/17/08 14:42/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/08/08 02:54/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/10/08 01:43/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/08/08 02:54/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/08/08 02:54/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/08/08 02:54/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/10/08 01:43/eli-c
Manganese	ND	mg/L		0.01			2	E200.7	07/08/08 02:54/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/09/08 11:58/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/08/08 02:54/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/08/08 02:54/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/17/08 03:01/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 14:42/eli-c
Strontium	ND	mg/L		0.1			2	E200.7	07/08/08 02:54/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	07/10/08 01:43/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	07/10/08 01:43/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/08/08 02:54/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 080703A-ALK-SEL-W							
Sample ID: LCS1_080703A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			Run: PH_COND1-R_080703A 07/03/08 11:24
Sample ID: MBLK1_080703A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080703A 07/03/08 11:25
Sample ID: R08060452-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 246	mg/L	5.0	102	80	120			Run: PH_COND1-R_080703A 07/03/08 11:59
Sample ID: R08060452-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 242	mg/L	5.0	98	80	120	1.6	10	Run: PH_COND1-R_080703A 07/03/08 12:01
Method: A2510 B		Batch: 080701_1_COND-PROBE-W							
Sample ID: LCS_COND-1_080701 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080701B 07/01/08 10:58
Sample ID: LCS1-1_080701 Conductivity @ 25 C	Laboratory Control Sample 160	umhos/cm	5.0	107	90	110			Run: PH_COND2-R_080701B 07/01/08 10:59
Sample ID: LCS2-1_080701 Conductivity @ 25 C	Laboratory Control Sample 5200	umhos/cm	5.0	104	90	110			Run: PH_COND2-R_080701B 07/01/08 11:01
Sample ID: MBLK-1_080701 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080701B 07/01/08 11:26
Method: A2540 C		Batch: 080627A-SLDS-TDS-W							
Sample ID: LCS1_080627A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 200	mg/L	5.0	98	90	110			Run: BAL-4-R_080627A 06/27/08 11:42
Sample ID: MBLK1_080627A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080627A 06/27/08 11:44
Sample ID: R08060427-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 2400	mg/L	5.0	111	80	120			Run: BAL-4-R_080627A 06/27/08 11:55
Sample ID: R08060427-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 2400	mg/L	5.0	113	80	120	0.2	10	Run: BAL-4-R_080627A 06/27/08 11:56
Sample ID: R08060452-002AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 910	mg/L	5.0	117	80	120			Run: BAL-4-R_080627A 06/27/08 12:03
Sample ID: R08060452-002AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 910	mg/L	5.0	118	80	120	0.2	10	Run: BAL-4-R_080627A 06/27/08 12:04

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080627-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_080627A			06/27/08 00:00
Oxidation-Reduction Potential	470	mV		99	95	105			
Sample ID: R08060427-001F	Sample Duplicate					Run: PH_COND1-R_080627A			06/27/08 00:00
Oxidation-Reduction Potential	90	mV					4.1	10	
Method: A3114 B							Batch: C_SE3114-080719B		
Sample ID: MBLK	Method Blank					Run: SUB-C104481			07/19/08 12:46
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample					Run: SUB-C104481			07/19/08 12:48
Selenium-IV	0.055	mg/L	0.0010	110	90	110			
Sample ID: C08061335-001AMS	Sample Matrix Spike					Run: SUB-C104481			07/19/08 12:52
Selenium-IV	0.052	mg/L	0.0010	103	85	115			
Sample ID: C08061335-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C104481			07/19/08 12:54
Selenium-IV	0.052	mg/L	0.0010	104	85	115	1.2	10	
Sample ID: R08070005-001E	Sample Matrix Spike					Run: SUB-C104481			07/19/08 13:36
Selenium-IV	0.052	mg/L	0.0010	103	85	115			
Sample ID: R08070005-001E	Sample Matrix Spike Duplicate					Run: SUB-C104481			07/19/08 13:38
Selenium-IV	0.052	mg/L	0.0010	104	85	115	0.9	10	
Method: A3114 B							Batch: C_SE3114-080719D		
Sample ID: MBLK	Method Blank					Run: SUB-C104485			07/19/08 15:42
Selenium	ND	mg/L	6E-05						
Sample ID: C08061335-001AMS	Sample Matrix Spike					Run: SUB-C104485			07/19/08 15:52
Selenium	0.050	mg/L	0.0010	100	85	115			
Sample ID: C08061335-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C104485			07/19/08 15:54
Selenium	0.053	mg/L	0.0010	104	85	115	4.2	10	
Sample ID: 288-106-2	Laboratory Control Sample					Run: SUB-C104485			07/19/08 15:47
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: R08070005-001E	Sample Matrix Spike					Run: SUB-C104485			07/19/08 16:32
Selenium	0.055	mg/L	0.0010	110	85	115			
Sample ID: R08070005-001E	Sample Matrix Spike Duplicate					Run: SUB-C104485			07/19/08 16:34
Selenium	0.055	mg/L	0.0010	109	85	115	0.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080701_1_PH-W		
Sample ID: LCS_pH-1_080701	Laboratory Control Sample				Run: PH_COND2-R_080701A		07/01/08 10:01		
pH	6.91	s.u.	0.010	101	98.55	101.45			
Method: A4500-NH3 G							Batch: A2008-06-25_2_NH3_01		
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080625A		06/25/08 14:58		
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080625A		06/25/08 14:59		
Nitrogen, Ammonia as N	0.28	mg/L	0.10	113	90	110			S
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080625A		06/25/08 15:00		
Nitrogen, Ammonia as N	0.28	mg/L	0.10	110	90	110			
Sample ID: R08060427-001BMS	Sample Matrix Spike				Run: TECHAA2-R_080625A		06/25/08 15:45		
Nitrogen, Ammonia as N	0.43	mg/L	0.10	114	80	120			
Sample ID: R08060427-001BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080625A		06/25/08 15:46		
Nitrogen, Ammonia as N	0.43	mg/L	0.10	112	80	120	0.7	10	
Method: D5072-92							Batch: C_R103730		
Sample ID: C08070002-001ADUP	Sample Duplicate				Run: SUB-C103730		07/02/08 04:29		
Radon 222	225	pCi/L	100				13	30	
Sample ID: MB-R103730	Method Blank				Run: SUB-C103730		07/02/08 04:29		
Radon 222	20	pCi/L							
Sample ID: LCS-R103730	Laboratory Control Sample				Run: SUB-C103730		07/02/08 04:29		
Radon 222	303	pCi/L	100	92	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18996		
Sample ID: MB-18996	Method Blank		Run: SUB-C103815			07/08/08 01:32			
Barium	ND	mg/L	0.006						
Boron	0.08	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.003	mg/L	0.001						
Sample ID: LCS3-18996	Laboratory Control Sample		Run: SUB-C103815			07/08/08 01:36			
Barium	0.505	mg/L	0.10	101	85	115			
Boron	0.553	mg/L	0.10	95	85	115			
Chromium	0.512	mg/L	0.050	102	85	115			
Copper	0.516	mg/L	0.010	103	85	115			
Iron	2.59	mg/L	0.030	104	85	115			
Manganese	2.56	mg/L	0.010	103	85	115			
Molybdenum	0.509	mg/L	0.10	102	85	115			
Nickel	0.514	mg/L	0.050	103	85	115			
Strontium	0.533	mg/L	0.10	107	85	115			
Zinc	0.506	mg/L	0.010	101	85	115			
Sample ID: R08060427-007D	Sample Matrix Spike		Run: SUB-C103815			07/08/08 02:58			
Barium	0.526	mg/L	0.10	105	70	130			
Boron	0.512	mg/L	0.10	102	70	130			
Chromium	0.527	mg/L	0.050	105	70	130			
Copper	0.537	mg/L	0.010	107	70	130			
Iron	2.69	mg/L	0.030	107	70	130			
Manganese	2.66	mg/L	0.010	107	70	130			
Molybdenum	0.519	mg/L	0.10	104	70	130			
Nickel	0.523	mg/L	0.050	105	70	130			
Strontium	0.558	mg/L	0.10	112	70	130			
Zinc	0.527	mg/L	0.010	105	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate		Run: SUB-C103815			07/08/08 03:02			
Barium	0.504	mg/L	0.10	101	70	130	4.3	20	
Boron	0.495	mg/L	0.10	99	70	130	3.4	20	
Chromium	0.513	mg/L	0.050	103	70	130	2.7	20	
Copper	0.522	mg/L	0.010	104	70	130	2.9	20	
Iron	2.60	mg/L	0.030	104	70	130	3.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18996		
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C103815			07/08/08 03:02		
Manganese	2.56	mg/L	0.010	102	70	130	4.1	20	
Molybdenum	0.505	mg/L	0.10	101	70	130	2.7	20	
Nickel	0.497	mg/L	0.050	99	70	130	5.1	20	
Strontium	0.545	mg/L	0.10	109	70	130	2.3	20	
Zinc	0.507	mg/L	0.010	101	70	130	3.9	20	
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C103914			07/09/08 00:09		
Barium	0.510	mg/L	0.10	102	70	130			
Boron	0.493	mg/L	0.10	99	70	130			
Chromium	0.514	mg/L	0.050	103	70	130			
Copper	0.520	mg/L	0.010	104	70	130			
Iron	2.63	mg/L	0.030	105	70	130			
Manganese	2.55	mg/L	0.010	102	70	130			
Molybdenum	0.501	mg/L	0.10	100	70	130			
Nickel	0.507	mg/L	0.050	101	70	130			
Strontium	0.534	mg/L	0.10	107	70	130			
Zinc	0.508	mg/L	0.010	102	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C103914			07/09/08 00:13		
Barium	0.502	mg/L	0.10	100	70	130	1.5	20	
Boron	0.489	mg/L	0.10	98	70	130	0.8	20	
Chromium	0.504	mg/L	0.050	101	70	130	1.9	20	
Copper	0.504	mg/L	0.010	101	70	130	3.1	20	
Iron	2.69	mg/L	0.030	108	70	130	2.3	20	
Manganese	2.53	mg/L	0.010	101	70	130	0.6	20	
Molybdenum	0.504	mg/L	0.10	101	70	130	0.7	20	
Nickel	0.503	mg/L	0.050	101	70	130	0.8	20	
Strontium	0.541	mg/L	0.10	108	70	130	1.3	20	
Zinc	0.507	mg/L	0.010	101	70	130	0.3	20	
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C104107			07/11/08 17:32		
Barium	0.521	mg/L	0.10	104	70	130			
Boron	0.566	mg/L	0.10	104	70	130			
Chromium	0.528	mg/L	0.050	106	70	130			
Copper	0.532	mg/L	0.010	104	70	130			
Iron	2.69	mg/L	0.030	108	70	130			
Manganese	2.65	mg/L	0.010	106	70	130			
Molybdenum	0.520	mg/L	0.10	104	70	130			
Nickel	0.514	mg/L	0.050	103	70	130			
Strontium	0.543	mg/L	0.10	109	70	130			
Zinc	0.528	mg/L	0.010	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18996		
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104107			07/11/08 17:36		
Barium	0.524	mg/L	0.10	105	70	130	0.7	20	
Boron	0.572	mg/L	0.10	106	70	130	1.1	20	
Chromium	0.534	mg/L	0.050	107	70	130	1.1	20	
Copper	0.539	mg/L	0.010	106	70	130	1.2	20	
Iron	2.77	mg/L	0.030	111	70	130	2.9	20	
Manganese	2.70	mg/L	0.010	108	70	130	1.7	20	
Molybdenum	0.520	mg/L	0.10	104	70	130	0.1	20	
Nickel	0.523	mg/L	0.050	105	70	130	1.8	20	
Strontium	0.530	mg/L	0.10	106	70	130	2.5	20	
Zinc	0.534	mg/L	0.010	106	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103815		
Sample ID: MB-080707A	Method Blank		Run: SUB-C103815			07/07/08 13:14			
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.01	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	0.009	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.02	mg/L	0.003						
Zinc	0.002	mg/L	0.002						
Sample ID: LFB-080707A	Laboratory Fortified Blank		Run: SUB-C103815			07/07/08 13:18			
Silica	0.39	mg/L	0.10	98	85	125			
Aluminum	0.97	mg/L	0.10	97	85	125			
Barium	1.1	mg/L	0.10	106	85	125			
Boron	1.1	mg/L	0.10	105	85	125			
Calcium	55	mg/L	0.50	110	85	125			
Chromium	1.1	mg/L	0.050	107	85	125			
Iron	1.1	mg/L	0.030	111	85	125			
Magnesium	54	mg/L	0.50	109	85	125			
Manganese	1.1	mg/L	0.010	105	85	125			
Molybdenum	1.0	mg/L	0.10	105	85	125			
Nickel	1.1	mg/L	0.050	106	85	125			
Potassium	48	mg/L	0.50	95	85	125			
Sodium	52	mg/L	0.77	104	85	125			
Vanadium	1.1	mg/L	0.10	106	85	125			
Zinc	1.1	mg/L	0.010	106	85	125			
Sample ID: R08060427-001C	Sample Matrix Spike		Run: SUB-C103815			07/07/08 18:14			
Aluminum	2.11	mg/L	0.10	106	70	130			
Barium	2.05	mg/L	0.10	102	70	130			
Boron	2.15	mg/L	0.10	106	70	130			
Chromium	2.14	mg/L	0.050	106	70	130			
Iron	3.75	mg/L	0.030	107	70	130			
Manganese	4.53	mg/L	0.010	99	70	130			
Molybdenum	2.10	mg/L	0.10	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103815		
Sample ID: R08060427-001C	Sample Matrix Spike			Run: SUB-C103815			07/07/08 18:14		
Nickel	2.11	mg/L	0.050	105	70	130			
Vanadium	2.22	mg/L	0.10	108	70	130			
Zinc	2.16	mg/L	0.010	107	70	130			
Calcium	483	mg/L	1.0	90	70	130			
Magnesium	247	mg/L	1.0	106	70	130			
Potassium	108	mg/L	1.0	92	70	130			
Silica	5.99	mg/L	0.10		70	130			A
Sodium	191	mg/L	1.5	102	70	130			
Sample ID: R08060427-001C	Sample Matrix Spike Duplicate			Run: SUB-C103815			07/07/08 18:18		
Aluminum	2.23	mg/L	0.10	111	70	130	5.4	20	
Barium	2.05	mg/L	0.10	102	70	130	0.1	20	
Boron	2.18	mg/L	0.10	107	70	130	1.4	20	
Chromium	2.12	mg/L	0.050	106	70	130	0.8	20	
Iron	3.72	mg/L	0.030	106	70	130	0.8	20	
Manganese	4.58	mg/L	0.010	101	70	130	0.9	20	
Molybdenum	2.10	mg/L	0.10	105	70	130	0.0	20	
Nickel	2.11	mg/L	0.050	106	70	130	0.1	20	
Vanadium	2.14	mg/L	0.10	104	70	130	3.7	20	
Zinc	2.15	mg/L	0.010	107	70	130	0.4	20	
Calcium	497	mg/L	1.0	104	70	130	2.7	20	
Magnesium	249	mg/L	1.0	108	70	130	0.7	20	
Potassium	108	mg/L	1.0	92	70	130	0.2	20	
Silica	6.06	mg/L	0.10		70	130	1.2	20	A
Sodium	194	mg/L	1.5	105	70	130	1.4	20	
Sample ID: C08061166-001BMS2	Sample Matrix Spike			Run: SUB-C103815			07/07/08 19:02		
Aluminum	1.09	mg/L	0.10	109	70	130			
Barium	1.03	mg/L	0.10	102	70	130			
Boron	1.24	mg/L	0.10	104	70	130			
Calcium	57.4	mg/L	0.50	109	70	130			
Chromium	1.07	mg/L	0.050	107	70	130			
Iron	1.18	mg/L	0.030	108	70	130			
Magnesium	55.1	mg/L	0.50	110	70	130			
Manganese	1.05	mg/L	0.010	105	70	130			
Molybdenum	0.948	mg/L	0.10	95	70	130			
Nickel	1.07	mg/L	0.050	107	70	130			
Potassium	47.8	mg/L	0.50	95	70	130			
Silica	5.46	mg/L	0.10		70	130			A
Sodium	186	mg/L	0.77	94	70	130			
Vanadium	1.17	mg/L	0.10	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103815		
Sample ID: C08061166-001BMS2		Sample Matrix Spike			Run: SUB-C103815		07/07/08 19:02		
Zinc	1.07	mg/L	0.010	107	70	130			
Sample ID: C08061166-001BMSD2		Sample Matrix Spike Duplicate			Run: SUB-C103815		07/07/08 19:06		
Aluminum	1.05	mg/L	0.10	105	70	130	3.7	20	
Barium	1.00	mg/L	0.10	99	70	130	2.3	20	
Boron	1.22	mg/L	0.10	102	70	130	1.6	20	
Calcium	56.7	mg/L	0.50	108	70	130	1.3	20	
Chromium	1.04	mg/L	0.050	104	70	130	2.6	20	
Iron	1.18	mg/L	0.030	107	70	130	0.5	20	
Magnesium	53.9	mg/L	0.50	108	70	130	2.2	20	
Manganese	1.03	mg/L	0.010	103	70	130	2.1	20	
Molybdenum	0.991	mg/L	0.10	99	70	130	4.5	20	
Nickel	1.03	mg/L	0.050	103	70	130	3.5	20	
Potassium	47.7	mg/L	0.50	95	70	130	0.1	20	
Silica	5.41	mg/L	0.10		70	130	0.9	20	A
Sodium	188	mg/L	0.77	98	70	130	1.2	20	
Vanadium	1.12	mg/L	0.10	101	70	130	3.9	20	
Zinc	1.05	mg/L	0.010	104	70	130	2.2	20	
Sample ID: C08060943-002BMS2		Sample Matrix Spike			Run: SUB-C103815		07/07/08 19:39		
Aluminum	8.45	mg/L	0.10		70	130			A
Barium	1.36	mg/L	0.10	102	70	130			
Boron	1.12	mg/L	0.10	106	70	130			
Chromium	1.08	mg/L	0.050	107	70	130			
Iron	13.4	mg/L	0.030		70	130			A
Manganese	1.61	mg/L	0.010	103	70	130			
Molybdenum	1.00	mg/L	0.10	100	70	130			
Nickel	1.08	mg/L	0.050	106	70	130			
Vanadium	1.13	mg/L	0.10	107	70	130			
Zinc	1.14	mg/L	0.010	107	70	130			
Calcium	87.5	mg/L	1.0	107	70	130			
Magnesium	66.9	mg/L	1.0	109	70	130			
Potassium	63.7	mg/L	1.0	87	70	130			
Silica	21.1	mg/L	0.10		70	130			A
Sodium	56.5	mg/L	1.0	105	70	130			
Sample ID: C08060943-002BMSD2		Sample Matrix Spike Duplicate			Run: SUB-C103815		07/07/08 19:43		
Aluminum	8.21	mg/L	0.10		70	130	2.8	20	A
Barium	1.35	mg/L	0.10	100	70	130	1.1	20	
Boron	1.13	mg/L	0.10	106	70	130	0.5	20	
Chromium	1.08	mg/L	0.050	107	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103815		
Sample ID: C08060943-002BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C103815			07/07/08 19:43		
Iron	13.3	mg/L	0.030		70	130	0.5	20	A
Manganese	1.60	mg/L	0.010	101	70	130	1.1	20	
Molybdenum	1.01	mg/L	0.10	101	70	130	1.1	20	
Nickel	1.08	mg/L	0.050	106	70	130	0.4	20	
Vanadium	1.12	mg/L	0.10	106	70	130	1.1	20	
Zinc	1.12	mg/L	0.010	105	70	130	2.3	20	
Calcium	88.4	mg/L	1.0	109	70	130	1.0	20	
Magnesium	65.8	mg/L	1.0	106	70	130	1.7	20	
Potassium	64.7	mg/L	1.0	89	70	130	1.4	20	
Silica	20.8	mg/L	0.10		70	130	1.2	20	A
Sodium	56.3	mg/L	1.0	104	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18996		
Sample ID: MB-18996	Method Blank			Run: SUB-C103950			07/10/08 00:55		
Antimony	0.0002	mg/L	0.0002						
Arsenic	0.0008	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	0.0010	mg/L	5E-05						
Selenium	ND	mg/L	0.0002						
Silver	0.0002	mg/L	4E-05						
Thallium	ND	mg/L	3E-05						
Uranium	7E-05	mg/L	3E-05						
Sample ID: LCS3-18996	Laboratory Control Sample			Run: SUB-C103950			07/10/08 01:02		
Antimony	0.532	mg/L	0.050	106	85	115			
Arsenic	0.530	mg/L	0.0010	106	85	115			
Cadmium	0.264	mg/L	0.010	106	85	115			
Lead	0.522	mg/L	0.050	104	85	115			
Selenium	0.561	mg/L	0.0020	112	85	115			
Silver	0.0505	mg/L	0.010	101	85	115			
Thallium	0.508	mg/L	0.10	102	85	115			
Uranium	0.537	mg/L	0.00032	107	85	115			
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C103950			07/10/08 01:50		
Antimony	0.521	mg/L	0.050	104	70	130			
Arsenic	0.517	mg/L	0.0010	103	70	130			
Beryllium	0.296	mg/L	0.010	118	70	130			
Cadmium	0.252	mg/L	0.010	101	70	130			
Lead	0.534	mg/L	0.050	107	70	130			
Selenium	0.520	mg/L	0.0010	104	70	130			
Silver	0.0534	mg/L	0.010	107	70	130			
Thallium	0.536	mg/L	0.10	107	70	130			
Uranium	0.569	mg/L	0.00030	114	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C103950			07/10/08 01:56		
Antimony	0.514	mg/L	0.050	103	70	130	1.3	20	
Arsenic	0.512	mg/L	0.0010	102	70	130	1.0	20	
Beryllium	0.287	mg/L	0.010	115	70	130	3.0	20	
Cadmium	0.253	mg/L	0.010	101	70	130	0.4	20	
Lead	0.524	mg/L	0.050	105	70	130	1.9	20	
Selenium	0.513	mg/L	0.0010	103	70	130	1.4	20	
Silver	0.0533	mg/L	0.010	107	70	130	0.1	20	
Thallium	0.529	mg/L	0.10	106	70	130	1.3	20	
Uranium	0.560	mg/L	0.00030	112	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18996		
Sample ID: MB-18996	Method Blank			Run: SUB-C104345			07/16/08 22:50		
Antimony	0.0008	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0002						
Silver	0.0001	mg/L	4E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18996	Laboratory Control Sample			Run: SUB-C104345			07/16/08 22:56		
Arsenic	0.574	mg/L	0.0010	114	85	115			
Cadmium	0.283	mg/L	0.010	113	85	115			
Lead	0.566	mg/L	0.050	113	85	115			
Selenium	0.560	mg/L	0.0020	112	85	115			
Silver	0.0526	mg/L	0.010	105	85	115			
Thallium	0.556	mg/L	0.10	111	85	115			
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C104345			07/17/08 03:07		
Antimony	0.540	mg/L	0.050	108	70	130			
Arsenic	0.492	mg/L	0.0010	98	70	130			
Beryllium	0.269	mg/L	0.010	108	70	130			
Cadmium	0.246	mg/L	0.010	98	70	130			
Lead	0.490	mg/L	0.050	98	70	130			
Selenium	0.491	mg/L	0.0020	98	70	130			
Silver	0.0448	mg/L	0.010	90	70	130			
Thallium	0.482	mg/L	0.10	96	70	130			
Uranium	0.511	mg/L	0.00032	102	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104345			07/17/08 03:14		
Antimony	0.503	mg/L	0.050	101	70	130	7.0	20	
Arsenic	0.465	mg/L	0.0010	92	70	130	5.7	20	
Beryllium	0.248	mg/L	0.010	99	70	130	8.0	20	
Cadmium	0.227	mg/L	0.010	91	70	130	7.6	20	
Lead	0.452	mg/L	0.050	90	70	130	8.0	20	
Selenium	0.456	mg/L	0.0020	91	70	130	7.4	20	
Silver	0.0429	mg/L	0.010	86	70	130	4.4	20	
Thallium	0.448	mg/L	0.10	90	70	130	7.4	20	
Uranium	0.472	mg/L	0.00032	94	70	130	8.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18996		
Sample ID: MB-18996	Method Blank			Run: SUB-C104438			07/17/08 13:21		
Antimony	0.0002	mg/L	0.0002						
Arsenic	0.0005	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	0.0002	mg/L	5E-05						
Selenium	0.0003	mg/L	0.0002						
Silver	0.0007	mg/L	4E-05						
Thallium	4E-05	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18996	Laboratory Control Sample			Run: SUB-C104438			07/17/08 13:28		
Antimony	0.550	mg/L	0.050	110	85	115			
Arsenic	0.514	mg/L	0.0010	103	85	115			
Beryllium	0.248	mg/L	0.010	99	85	115			
Cadmium	0.259	mg/L	0.010	104	85	115			
Lead	0.510	mg/L	0.050	102	85	115			
Selenium	0.507	mg/L	0.0020	101	85	115			
Silver	0.0439	mg/L	0.010	86	85	115			
Thallium	0.500	mg/L	0.10	100	85	115			
Uranium	0.520	mg/L	0.00032	104	85	115			
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C104438			07/17/08 14:49		
Antimony	0.0550	mg/L	0.050	110	70	130			
Arsenic	0.0525	mg/L	0.0010	105	70	130			
Beryllium	0.0261	mg/L	0.010	131	70	130			S
Cadmium	0.0255	mg/L	0.010	128	70	130			
Lead	0.0516	mg/L	0.050	103	70	130			
Selenium	0.0520	mg/L	0.0010	104	70	130			
Silver	0.00437	mg/L	0.010	109	70	130			
Thallium	0.0506	mg/L	0.10	101	70	130			
Uranium	0.0531	mg/L	0.00030	106	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104438			07/17/08 14:56		
Antimony	0.0545	mg/L	0.050	109	70	130	0.9	20	
Arsenic	0.0508	mg/L	0.0010	101	70	130	3.3	20	
Beryllium	0.0252	mg/L	0.010	126	70	130	3.7	20	
Cadmium	0.0256	mg/L	0.010	128	70	130	0.1	20	
Lead	0.0500	mg/L	0.050	100	70	130	3.1	20	
Selenium	0.0504	mg/L	0.0010	101	70	130	3.1	20	
Silver	0.00451	mg/L	0.010	113	70	130	0.0	20	
Thallium	0.0495	mg/L	0.10	99	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18996		
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104438			07/17/08 14:56		
Uranium	0.0510	mg/L	0.00030	102	70	130	3.9	20	
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C104503			07/18/08 17:58		
Antimony	0.571	mg/L	0.050	114	70	130			
Arsenic	0.515	mg/L	0.0010	103	70	130			
Cadmium	0.254	mg/L	0.010	101	70	130			
Lead	0.539	mg/L	0.050	108	70	130			
Selenium	0.506	mg/L	0.0010	101	70	130			
Silver	0.0499	mg/L	0.010	100	70	130			
Thallium	0.546	mg/L	0.10	109	70	130			
Uranium	0.587	mg/L	0.00030	117	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104503			07/18/08 18:04		
Antimony	0.564	mg/L	0.050	113	70	130	1.2	20	
Arsenic	0.507	mg/L	0.0010	101	70	130	1.5	20	
Cadmium	0.253	mg/L	0.010	101	70	130	0.2	20	
Lead	0.526	mg/L	0.050	105	70	130	2.5	20	
Selenium	0.496	mg/L	0.0010	99	70	130	1.8	20	
Silver	0.0496	mg/L	0.010	99	70	130	0.6	20	
Thallium	0.536	mg/L	0.10	107	70	130	1.7	20	
Uranium	0.581	mg/L	0.00030	116	70	130	1.0	20	
Sample ID: R08060427-007D	Sample Matrix Spike			Run: SUB-C104617			07/21/08 16:58		
Antimony	0.595	mg/L	0.050	119	70	130			
Arsenic	0.509	mg/L	0.0010	101	70	130			
Beryllium	0.269	mg/L	0.010	108	70	130			
Cadmium	0.264	mg/L	0.010	106	70	130			
Lead	0.519	mg/L	0.050	104	70	130			
Selenium	0.503	mg/L	0.0010	100	70	130			
Silver	0.0497	mg/L	0.010	99	70	130			
Thallium	0.518	mg/L	0.10	104	70	130			
Uranium	0.584	mg/L	0.00030	117	70	130			
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104617			07/21/08 17:05		
Antimony	0.579	mg/L	0.050	116	70	130	2.7	20	
Arsenic	0.508	mg/L	0.0010	101	70	130	0.2	20	
Beryllium	0.267	mg/L	0.010	107	70	130	0.8	20	
Cadmium	0.256	mg/L	0.010	102	70	130	3.1	20	
Lead	0.522	mg/L	0.050	104	70	130	0.7	20	
Selenium	0.503	mg/L	0.0010	101	70	130	0.1	20	
Silver	0.0485	mg/L	0.010	97	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18996		
Sample ID: R08060427-007D	Sample Matrix Spike Duplicate			Run: SUB-C104617			07/21/08 17:05		
Thallium	0.523	mg/L	0.10	105	70	130	1.0	20	
Uranium	0.586	mg/L	0.00030	117	70	130	0.3	20	
Method: E200.8							Batch: C_19014		
Sample ID: MB-19014	Method Blank			Run: SUB-C104018			07/10/08 11:31		
Uranium	2E-05	mg/L	2E-05						
Sample ID: LCS1-19014	Laboratory Control Sample			Run: SUB-C104018			07/10/08 11:36		
Uranium	0.0504	mg/L	0.00030	96	80	120			
Sample ID: R08060427-007I	Post Digestion Spike			Run: SUB-C104018			07/10/08 12:51		
Uranium	0.0119	mg/L	0.00030	95	70	130			
Sample ID: R08060427-007I	Post Digestion Spike Duplicate			Run: SUB-C104018			07/10/08 12:56		
Uranium	0.0120	mg/L	0.00030	95	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104306		
Sample ID: LRB	Method Blank		Run: SUB-C104306			07/15/08 12:08			
Arsenic	ND	mg/L	6E-05						
Cadmium	2E-05	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	7E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104306			07/15/08 12:15			
Arsenic	0.0503	mg/L	0.0010	101	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Copper	0.0505	mg/L	0.0010	101	85	115			
Lead	0.0512	mg/L	0.0010	102	85	115			
Mercury	0.00506	mg/L	0.0010	101	85	115			
Silver	0.0194	mg/L	0.0010	97	85	115			
Thorium 232	0.0507	mg/L	0.0010	101	85	115			
Uranium	0.0509	mg/L	0.00030	102	85	115			
Sample ID: C08061021-002CMS4	Post Digestion Spike		Run: SUB-C104306			07/15/08 19:27			
Arsenic	0.459	mg/L	0.0010	90	70	130			
Cadmium	0.433	mg/L	0.010	86	70	130			
Copper	0.464	mg/L	0.010	89	70	130			
Lead	0.456	mg/L	0.050	87	70	130			
Mercury	0.0437	mg/L	0.0010	87	70	130			
Silver	0.172	mg/L	0.010	86	70	130			
Thorium 232	0.436	mg/L	0.0010	86	70	130			
Uranium	0.439	mg/L	0.00030	87	70	130			
Sample ID: C08061021-002CMSD4	Post Digestion Spike Duplicate		Run: SUB-C104306			07/15/08 19:34			
Arsenic	0.541	mg/L	0.0010	107	70	130	16	20	
Cadmium	0.530	mg/L	0.010	106	70	130	20	20	R
Copper	0.541	mg/L	0.010	104	70	130	15	20	
Lead	0.546	mg/L	0.050	105	70	130	18	20	
Mercury	0.0529	mg/L	0.0010	106	70	130	19	20	
Silver	0.177	mg/L	0.010	89	70	130	3.2	20	
Thorium 232	0.528	mg/L	0.0010	105	70	130	19	20	
Uranium	0.528	mg/L	0.00030	105	70	130	18	20	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_33309		
Sample ID: MB-33309	Method Blank					Run: SUB-B113606	07/07/08 19:32		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33309	Laboratory Fortified Blank					Run: SUB-B113606	07/07/08 19:39		
Mercury	0.0020	mg/L	0.0010	100	85	115			
Sample ID: B08062869-005AMS	Sample Matrix Spike					Run: SUB-B113606	07/07/08 20:21		
Mercury	0.0022	mg/L	0.0010	105	70	130			
Sample ID: B08062869-005AMSD	Sample Matrix Spike Duplicate					Run: SUB-B113606	07/07/08 20:24		
Mercury	0.0022	mg/L	0.0010	106	70	130	0.5	30	
Method: E245.1							Batch: B_33393		
Sample ID: MB-33393	Method Blank					Run: SUB-B113690	07/09/08 11:37		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33393	Laboratory Fortified Blank					Run: SUB-B113690	07/09/08 11:39		
Mercury	0.0020	mg/L	0.0010	101	85	115			
Sample ID: R08060427-002D	Sample Matrix Spike					Run: SUB-B113690	07/09/08 11:44		
Mercury	0.0021	mg/L	0.0010	102	70	130			
Sample ID: R08060427-002D	Sample Matrix Spike Duplicate					Run: SUB-B113690	07/09/08 11:46		
Mercury	0.0022	mg/L	0.0010	108	70	130	5.5	30	
Sample ID: B08070638-001BMS	Sample Matrix Spike					Run: SUB-B113690	07/09/08 12:07		
Mercury	0.0022	mg/L	0.0010	108	70	130			
Sample ID: B08070638-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-B113690	07/09/08 12:10		
Mercury	0.0021	mg/L	0.0010	103	70	130	4.2	30	
Method: E245.1							Analytical Run: SUB-B113606		
Sample ID: QCS	Initial Calibration Verification Standard						07/07/08 19:22		
Mercury	0.0020	mg/L	0.0010	99	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35707		
Sample ID: LFB0806260829-3	Laboratory Fortified Blank			Run: DIONEX_080627A			06/26/08 19:18		
Chloride	4.77	mg/L	0.50	95	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.46	mg/L	0.10	98	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: LFB0806260829-4	Laboratory Fortified Blank			Run: DIONEX_080627A			06/26/08 19:34		
Chloride	4.71	mg/L	0.50	94	90	110			
Fluoride	1.84	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R08060426-001AMS	Sample Matrix Spike			Run: DIONEX_080627A			06/26/08 20:07		
Chloride	6.85	mg/L	0.50	86	80	120			
Fluoride	2.13	mg/L	0.10	92	80	120			
Nitrogen, Nitrate as N	2.28	mg/L	0.10	87	80	120			
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	80	120			
Sulfate	66.3	mg/L	1.0	65	80	120			S
Sample ID: R08060426-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080627A			06/26/08 20:23		
Chloride	6.96	mg/L	0.50	88	80	120	1.6	10	
Fluoride	2.18	mg/L	0.10	95	80	120	2.3	10	
Nitrogen, Nitrate as N	2.35	mg/L	0.10	90	80	120	3.0	10	
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	80	120	2.5	10	
Sulfate	66.6	mg/L	1.0	68	80	120	0.5	10	S
Sample ID: R08060427-004AMS	Sample Matrix Spike			Run: DIONEX_080627A			06/26/08 23:24		
Chloride	105	mg/L	2.2	89	80	120			
Fluoride	37.6	mg/L	0.22	87	80	120			
Nitrogen, Nitrate as N	47.1	mg/L	0.50	94	80	120			
Nitrogen, Nitrite as N	50.0	mg/L	1.2	100	80	120			
Sulfate	699	mg/L	1.3	86	80	120			
Sample ID: R08060427-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080627A			06/26/08 23:40		
Chloride	102	mg/L	2.2	87	80	120	2.7	10	
Fluoride	36.3	mg/L	0.22	84	80	120	3.6	10	
Nitrogen, Nitrate as N	45.5	mg/L	0.50	91	80	120	3.5	10	
Nitrogen, Nitrite as N	48.3	mg/L	1.2	97	80	120	3.5	10	
Sulfate	709	mg/L	1.3	89	80	120	1.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35707		
Sample ID: R08060430-001BMS	Sample Matrix Spike			Run: DIONEX_080627A			06/27/08 02:41		
Chloride	10.6	mg/L	0.50	91	80	120			
Fluoride	2.42	mg/L	0.10	94	80	120			
Nitrogen, Nitrate as N	2.88	mg/L	0.10	93	80	120			
Nitrogen, Nitrite as N	2.54	mg/L	0.10	102	80	120			
Sulfate	42.6	mg/L	1.0	81	80	120			
Sample ID: R08060430-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080627A			06/27/08 02:57		
Chloride	10.3	mg/L	0.50	85	80	120	2.9	10	
Fluoride	2.30	mg/L	0.10	88	80	120	5.1	10	
Nitrogen, Nitrate as N	2.73	mg/L	0.10	87	80	120	5.3	10	
Nitrogen, Nitrite as N	2.39	mg/L	0.10	96	80	120	6.1	10	
Sulfate	41.8	mg/L	1.0	76	80	120	1.8	10	S
Method: E300.0							Batch: R35734		
Sample ID: LFB0806275602-3	Laboratory Fortified Blank			Run: DIONEX_080625B			06/27/08 17:26		
Chloride	4.75	mg/L	0.50	95	90	110			
Fluoride	1.87	mg/L	0.10	94	90	110			
Sulfate	14.2	mg/L	1.0	95	90	110			
Sample ID: LFB0806275602-4	Laboratory Fortified Blank			Run: DIONEX_080625B			06/27/08 17:43		
Chloride	4.72	mg/L	0.50	94	90	110			
Fluoride	1.86	mg/L	0.10	93	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: R08060307-006BMS	Sample Matrix Spike			Run: DIONEX_080625B			06/28/08 04:07		
Chloride	154	mg/L	2.2	86	80	120			
Fluoride	36.4	mg/L	0.22	84	80	120			
Sulfate	730	mg/L	1.3	83	80	120			
Sample ID: R08060307-006BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080625B			06/28/08 04:23		
Chloride	154	mg/L	2.2	86	80	120	0.1	10	
Fluoride	36.5	mg/L	0.22	84	80	120	0.4	10	
Sulfate	728	mg/L	1.3	82	80	120	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0479		
Sample ID: MB-GrAB-0479	Method Blank				Run: SUB-C104549			07/19/08 01:29	
Gross Alpha	2	pCi/L							
Gross Beta	-0.9	pCi/L							U
Sample ID: UNAT-GrAB-0479	Laboratory Control Sample				Run: SUB-C104549			07/19/08 01:29	
Gross Alpha	130	pCi/L	90	70	130				
Sample ID: R08060427-007H	Sample Matrix Spike				Run: SUB-C104549			07/19/08 22:57	
Gross Alpha	160	pCi/L	115	70	130				
Sample ID: R08060427-007H	Sample Matrix Spike Duplicate				Run: SUB-C104549			07/19/08 22:57	
Gross Alpha	150	pCi/L	107	70	130	7.6	15.2		
Sample ID: R08060427-007H	Sample Matrix Spike				Run: SUB-C104549			07/19/08 22:57	
Gross Beta	93	pCi/L	97	70	130				
Sample ID: R08060427-007H	Sample Matrix Spike Duplicate				Run: SUB-C104549			07/19/08 22:57	
Gross Beta	89	pCi/L	93	70	130	4.2	16		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample			Run: SUB-C104840			07/17/08 13:12		
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840							Run: SUB-C104840		
Method Blank							07/17/08 13:12		
Americium 241	ND	pCi/L							
Barium 133	ND	pCi/L							
Bismuth 212	ND	pCi/L							
Bismuth 214	ND	pCi/L							
Cesium 134	ND	pCi/L							
Cesium 137	ND	pCi/L							
Cobalt 60	ND	pCi/L							
Iodine 125	ND	pCi/L							
Iodine 131	ND	pCi/L							
Lead 212	ND	pCi/L							
Lead 214	ND	pCi/L							
Manganese 54	ND	pCi/L							
Potassium 40	ND	pCi/L							
Radium 223	ND	pCi/L							
Radium 224	ND	pCi/L							
Thallium 208	ND	pCi/L							
Thorium 228	ND	pCi/L							
Thorium 234	ND	pCi/L							
Zinc 65	ND	pCi/L							
Radium 228	ND	pCi/L							
Gross Gamma	ND	pCi/L							U
Sample ID: R08060427-007H							Run: SUB-C104840		
Sample Duplicate							07/17/08 13:12		
Americium 241	ND	pCi/L	20				0.0		30
Barium 133	ND	pCi/L	20				0.0		30
Bismuth 212	ND	pCi/L	20				0.0		30
Bismuth 214	ND	pCi/L	20				0.0		30
Cesium 134	ND	pCi/L	20				0.0		30
Cesium 137	ND	pCi/L	20				0.0		30
Cobalt 60	ND	pCi/L	20				0.0		30
Iodine 125	ND	pCi/L	20				0.0		30
Iodine 131	ND	pCi/L	20				0.0		30
Lead 212	ND	pCi/L	20				0.0		30
Lead 214	ND	pCi/L	20				0.0		30
Manganese 54	ND	pCi/L	20				0.0		30
Potassium 40	ND	pCi/L	20				0.0		30

Qualifiers:

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ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: R08060427-007H	Sample Duplicate					Run: SUB-C104840			07/17/08 13:12
Radium 223	ND	pCi/L	20				0.0	30	
Radium 224	ND	pCi/L	20				0.0	30	
Thallium 208	ND	pCi/L	20				0.0	30	
Thorium 228	ND	pCi/L	20				0.0	30	
Thorium 234	ND	pCi/L	20				0.0	30	
Zinc 65	ND	pCi/L	20				0.0	30	
Radium 228	ND	pCi/L	20				0.0	30	
Gross Gamma	ND	pCi/L	20				0.0	30	
Method: E903.0							Batch: C_19014		
Sample ID: C08061333-004IMS	Sample Matrix Spike					Run: SUB-C104316			07/15/08 21:56
Radium 226	140	pCi/L	92		70	130			
Sample ID: C08061333-004IMSD	Sample Matrix Spike Duplicate					Run: SUB-C104316			07/15/08 21:56
Radium 226	150	pCi/L	95		70	130	3.6	24.2	
Sample ID: LCS-19014	Laboratory Control Sample					Run: SUB-C104316			07/16/08 01:53
Radium 226	13	pCi/L	94		70	130			
Sample ID: MB-19014	Method Blank					Run: SUB-C104316			07/16/08 01:53
Radium 226	-2	pCi/L							U
Method: E903.0							Batch: C_RA226-2936		
Sample ID: MB-RA226-2936	Method Blank					Run: SUB-C104623			07/21/08 18:07
Radium 226	-0.1	pCi/L							U
Sample ID: LCS-RA226-2936	Laboratory Control Sample					Run: SUB-C104623			07/22/08 00:40
Radium 226	7.6	pCi/L	98		70	130			
Sample ID: C08061394-007HMS	Sample Matrix Spike					Run: SUB-C104623			07/22/08 00:40
Radium 226	17	pCi/L	107		70	130			
Sample ID: C08061394-007HMSD	Sample Matrix Spike Duplicate					Run: SUB-C104623			07/22/08 00:40
Radium 226	16	pCi/L	103		70	130	3.9	23.9	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_19014		
Sample ID: R08060427-007I Thorium 230	Sample Matrix Spike 21.4 pCi/L		0.20	92	70	130			07/11/08 17:06
Sample ID: R08060427-007I Thorium 230	Sample Matrix Spike Duplicate 19.9 pCi/L		0.20	90	70	130	7.4	30	07/11/08 17:07
Sample ID: LCS-19014 Thorium 230	Laboratory Control Sample 46.6 pCi/L		0.20	98	70	130			07/11/08 17:07
Sample ID: MB-19014 Thorium 230	Method Blank -0.08 pCi/L								07/11/08 17:07 U
Method: E907.0							Batch: C_RA-TH-ISO-0578		
Sample ID: LCS-RA-TH-ISO-0578 Thorium 230	Laboratory Control Sample 6.00 pCi/L		0.20	98	70	130			07/28/08 15:48
Sample ID: R08060427-001H Thorium 230	Sample Matrix Spike 14.9 pCi/L		0.20	91	70	130			07/28/08 15:49
Sample ID: R08060427-001H Thorium 230	Sample Matrix Spike Duplicate 16.8 pCi/L		0.20	104	70	130	12	30	07/28/08 20:05
Sample ID: MB-RA-TH-ISO-0578 Thorium 230	Method Blank -0.008 pCi/L								07/28/08 20:06 U
Method: E909.0M							Batch: C_19014		
Sample ID: R08060427-001I Lead 210	Sample Matrix Spike 150 pCi/L			52	70	130			07/08/08 06:20 S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MSD are acceptable the batch is approved.									
Sample ID: R08060427-001I Lead 210	Sample Matrix Spike Duplicate 230 pCi/L			78	70	130	38	30	07/08/08 06:20 R
Sample ID: MB-R105485 Lead 210	Method Blank 4 pCi/L								07/08/08 06:20 U
Sample ID: LCS-R105485 Lead 210	Laboratory Control Sample 140 pCi/L			115	70	130			07/08/08 06:20

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R105208		
Sample ID: R08060427-002H	Sample Matrix Spike				Run: SUB-C105208		07/11/08 07:20		
Lead 210	310	pCi/L		53	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: R08060427-002H	Sample Matrix Spike Duplicate				Run: SUB-C105208		07/11/08 07:20		
Lead 210	360	pCi/L		61	70	130	15	30	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08061333-001HDUP	Sample Duplicate				Run: SUB-C105208		07/11/08 07:20		
Lead 210	-5.5	pCi/L	1.0				0.0	30	U
Sample ID: MB-R105208	Method Blank				Run: SUB-C105208		07/11/08 07:20		
Lead 210	-5	pCi/L							U
Sample ID: LCS-R105208	Laboratory Control Sample				Run: SUB-C105208		07/11/08 07:20		
Lead 210	110	pCi/L		96	70	130			
Method: RMO-3008							Batch: C_19014		
Sample ID: C08061292-001BMS	Sample Matrix Spike				Run: SUB-C106196		08/18/08 17:00		
Polonium 210	18	pCi/L	1.0	124	70	130			
Sample ID: C08061292-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C106196		08/18/08 17:00		
Polonium 210	15	pCi/L	1.0	104	70	130	18	30	
Sample ID: LCS-19014	Laboratory Control Sample				Run: SUB-C106196		08/18/08 17:00		
Polonium 210	84	pCi/L	1.0	101	70	130			
Sample ID: MB-19014	Method Blank				Run: SUB-C106196		08/18/08 17:00		
Polonium 210	1	pCi/L							
Method: RMO-3008							Batch: C_R104456		
Sample ID: R08060427-001H	Sample Matrix Spike				Run: SUB-C104456		07/14/08 17:45		
Polonium 210	66	pCi/L	1.0	75	70	130			
Sample ID: R08060427-001H	Sample Matrix Spike Duplicate				Run: SUB-C104456		07/14/08 17:45		
Polonium 210	59	pCi/L	1.0	67	70	130	11	30	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: LCS-R104456	Laboratory Control Sample				Run: SUB-C104456		07/14/08 17:45		
Polonium 210	35	pCi/L	1.0	81	70	130			
Sample ID: MB-R104456	Method Blank				Run: SUB-C104456		07/14/08 17:45		
Polonium 210	-0.2	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060427

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A									Analytical Run: SUB-B113690
Sample ID: QCS	Initial Calibration Verification Standard								07/09/08 07:00
Mercury	0.0020	mg/L	0.0010	101	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: **RESPEC**
 Report Mail Address: **RESPEC**
 Invoice Address:
 Project Name, PWS, Permit, Etc.:
 Contact Name: **Powerful Dewey Buckle**
 Contact Name: **Cory Foreman**
 Phone/Fax: **294-6400**
 State: **SD**
 Email: **Eric Keanne**
 Sample Origin: **SD**
 EPA/State Compliance: Yes No
 Sampler: (Please Print) **Eric Keanne**
 Purchase Order:
 Quote/Bottle Order:

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA
 GSA EDD/EDT (Electronic Data)
 POTW/WWTP Format:
 State: LEVEL IV
 Other: NEIAC

Number of Containers
 Sample Type: AWSVB0
 Air Water Soils/Solids
 Vegetation Bioassay Other

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED				SEE ATTACHED Normal Turnaround (TAT)	RUSH Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: All GW	Shipped by: Cooler Degr: Receipt Temp: 3.2 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
				Requested by (print):	Date/Time:	Requested by (print):	Date/Time:			
1. Dew Buck GW 698	6/24/08	11:55	W							
2. Dew Buck GW 696	6/24/08	15:08	W							
3. Dew Buck GW 694	6/24/08	15:16	W							
4. Dew Buck GW 695	6/24/08	17:30	W							
5. Dew Buck GW 697	6/24/08	18:30	W							
6. Dew Buck GW 3026	6/24/08	20:05	W							
7. Dew Buck GW										
8. Dew Buck ELK01	6/24/08	20:10	W							
9.										
10.										

Custody Record **MUST be Signed**
 Refilled by (print): **Eric Keanne** Date/Time: **6/25/08 01:10** Signature: **[Signature]**
 Refilled by (print): **Eric Keanne** Date/Time: **6/25/08 01:10** Signature: **[Signature]**
 Received by Laboratory: **Eric Keanne** Date/Time: **6-25-08 8:38** Signature: **[Signature]**
 Received by Laboratory: **Eric Keanne** Date/Time: **6-25-08 8:38** Signature: **[Signature]**

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

August 20, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08060452 Quote ID: R286

Project Name: Edgemont

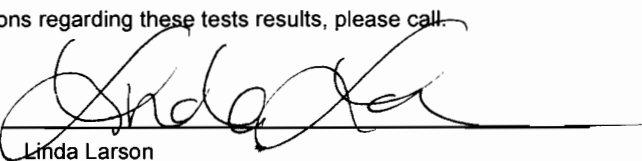
Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 6/26/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060452-001	DewBurd GW622	06/25/08 12:05	06/26/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08060452-002	DewBurd GW615	06/25/08 13:55	06/26/08	Aqueous	Same As Above
R08060452-003	DewBurd GW681	06/25/08 17:30	06/26/08	Aqueous	Same As Above
R08060452-004	DewBurd GW689	06/25/08 18:18	06/26/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:



Linda Larson



Date: 20-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060452

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08061333

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08061333



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-001
 Client Sample ID: DewBurd GW622

Report Date: 08/20/08
 Collection Date: 06/25/08 12:05
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	178	mg/L		5			1	A2320 B	07/03/08 11:52/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:52/mb
Bicarbonate as HCO3	217	mg/L		5			1	A2320 B	07/03/08 11:52/mb
Calcium	89.6	mg/L		0.5			2	E200.7	07/09/08 16:00/eli-c
Chloride	10	mg/L		1			1	E300.0	06/27/08 06:47/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	06/27/08 06:47/jmh
Magnesium	31.2	mg/L		0.5			2	E200.7	07/09/08 16:00/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	06/30/08 13:44/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/27/08 06:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/27/08 06:47/jmh
Potassium	10.2	mg/L		0.5			2	E200.7	07/09/08 16:00/eli-c
Silica	3.9	mg/L		0.5			2	E200.7	07/09/08 16:00/eli-c
Sodium	174	mg/L	D	2			2	E200.7	07/09/08 16:00/eli-c
Sulfate	481	mg/L		1			20	E300.0	06/27/08 06:31/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1410	umhos/cm		5.0			1	A2510 B	07/01/08 11:18/tb
Oxidation-Reduction Potential	240	mV					1	A2580 B	06/27/08 00:00/jmh
pH	7.95	s.u.		0.01			1	A4500-H B	07/01/08 10:11/tb
Sodium Adsorption Ratio (SAR)	4.0	unitless		0.10			1	Calculation	08/20/08 17:12/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5			1	A2540 C	06/27/08 12:01/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/09/08 16:00/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/17/08 20:10/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/09/08 16:00/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 16:00/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/17/08 20:10/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/09/08 16:00/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/17/08 20:10/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/09/08 16:00/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/17/08 20:10/eli-c
Manganese	0.19	mg/L		0.01			2	E200.7	07/09/08 16:00/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/17/08 20:10/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/09/08 16:00/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/09/08 16:00/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 14:52/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/17/08 20:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-001
 Client Sample ID: DewBurd GW622

Report Date: 08/20/08
 Collection Date: 06/25/08 12:05
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/17/08 20:10/eli-c
Uranium	0.0051	mg/L		0.0003		1	E200.8 07/17/08 20:10/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/09/08 16:00/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7 07/09/08 16:00/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/10/08 11:42/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 11:52/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	36.4	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha precision (±)	4.3	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha MDC	3.6	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta	22.5	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta precision (±)	2.7	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Lead 210	-2.0	pCi/L	U			1	E909.0M 07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008 07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008 07/10/08 21:30/eli-c
Radium 226	4.1	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/21/08 21:24/eli-c
Thorium 230 precision (±)	0.03	pCi/L				1	E907.0 07/21/08 21:24/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1 07/14/08 11:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 07/14/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	3.5	pCi/L	U			1	E909.0M 07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Polonium 210	1.0	pCi/L		1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.74	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0 07/15/08 21:56/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-001
 Client Sample ID: DewBurd GW622

Report Date: 08/20/08
 Collection Date: 06/25/08 12:05
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	07/15/08 21:56/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	07/15/08 21:56/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	1950	pCi/L		100		1 D5072-92	06/30/08 17:19/eli-c
Radon 222 precision (±)	107	pCi/L				1 D5072-92	06/30/08 17:19/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	07/07/08 17:05/eli-c
Arsenic	0.004	mg/L		0.001		10 E200.8	07/07/08 17:05/eli-c
Barium	0.1	mg/L		0.1		2 E200.7	07/07/08 23:47/eli-c
Beryllium	ND	mg/L		0.001		10 E200.8	07/07/08 17:05/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/07/08 23:47/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	07/07/08 17:05/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/07/08 23:47/eli-c
Copper	ND	mg/L		0.01		2 E200.7	07/07/08 23:47/eli-c
Iron	5.17	mg/L		0.03		2 E200.7	07/07/08 23:47/eli-c
Lead	0.030	mg/L	D	0.007		10 E200.8	07/07/08 17:05/eli-c
Manganese	0.22	mg/L		0.01		2 E200.7	07/07/08 23:47/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/10/08 16:04/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/07/08 23:47/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/07/08 23:47/eli-c
Selenium	0.002	mg/L	D	0.002		10 E200.8	07/07/08 17:05/eli-c
Silver	ND	mg/L		0.005		10 E200.8	07/07/08 17:05/eli-c
Strontium	1.6	mg/L		0.1		2 E200.7	07/07/08 23:47/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	07/07/08 17:05/eli-c
Uranium	0.0059	mg/L		0.0003		10 E200.8	07/07/08 17:05/eli-c
Zinc	0.13	mg/L		0.01		2 E200.7	07/07/08 23:47/eli-c
DATA QUALITY							
A/C Balance (± 5)	3.53	%				1 A1030 E	08/20/08 00:00/kl
Anions	13.9	meq/L				1 A1030 E	08/20/08 00:00/kl
Cations	14.9	meq/L				1 A1030 E	08/20/08 00:00/kl
Solids, Total Dissolved Calculated	914	mg/L				1 A1030 E	08/20/08 00:00/kl
TDS Balance (0.80 - 1.20)	0.990					1 A1030 E	08/20/08 00:00/kl

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-002
 Client Sample ID: DewBurd GW615

Report Date: 08/20/08
 Collection Date: 06/25/08 13:55
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	138	mg/L		5			1	A2320 B	07/03/08 11:56/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 11:56/mb
Bicarbonate as HCO3	168	mg/L		5			1	A2320 B	07/03/08 11:56/mb
Calcium	71.8	mg/L		0.5			2	E200.7	07/09/08 16:04/eli-c
Chloride	5	mg/L		1			1	E300.0	06/27/08 07:20/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	06/27/08 07:20/jmh
Magnesium	21.6	mg/L		0.5			2	E200.7	07/09/08 16:04/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	06/30/08 13:45/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	06/27/08 07:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	06/27/08 07:20/jmh
Potassium	8.7	mg/L		0.5			2	E200.7	07/09/08 16:04/eli-c
Silica	4.0	mg/L		0.5			2	E200.7	07/09/08 16:04/eli-c
Sodium	127	mg/L	D	2			2	E200.7	07/09/08 16:04/eli-c
Sulfate	369	mg/L		1			20	E300.0	06/27/08 07:03/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1110	umhos/cm		5.0			1	A2510 B	07/01/08 11:20/tb
Oxidation-Reduction Potential	140	mV					1	A2580 B	06/27/08 00:00/jmh
pH	7.48	s.u.		0.01			1	A4500-H B	07/01/08 10:12/tb
Sodium Adsorption Ratio (SAR)	3.4	unitless		0.10			1	Calculation	08/20/08 17:12/ADM
Solids, Total Dissolved TDS @ 180 C	680	mg/L		5			1	A2540 C	06/27/08 12:01/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/09/08 16:04/eli-c
Arsenic	0.016	mg/L		0.001			1	E200.8	07/15/08 19:13/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/09/08 16:04/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 16:04/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/15/08 19:13/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/09/08 16:04/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/15/08 19:13/eli-c
Iron	0.42	mg/L		0.03			2	E200.7	07/09/08 16:04/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/15/08 19:13/eli-c
Manganese	0.07	mg/L		0.01			2	E200.7	07/09/08 16:04/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/15/08 19:13/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/09/08 16:04/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/09/08 16:04/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/19/08 14:58/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/15/08 19:13/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-002
 Client Sample ID: DewBurd GW615

Report Date: 08/20/08
 Collection Date: 06/25/08 13:55
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/15/08 19:13/eli-c
Uranium	0.0024	mg/L		0.0003		1	E200.8 07/15/08 19:13/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/09/08 16:04/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/09/08 16:04/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/10/08 11:47/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 11:59/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	38.3	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha precision (±)	3.8	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha MDC	2.8	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta	12.6	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta precision (±)	2.0	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta MDC	3.0	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Lead 210	1.1	pCi/L	U			1	E909.0M 07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 precision (±)	6.8	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008 07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008 07/10/08 21:30/eli-c
Radium 226	7.2	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/21/08 21:24/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0 07/21/08 21:24/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1 07/14/08 11:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 07/14/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	3.5	pCi/L	U			1	E909.0M 07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0 07/15/08 21:56/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-002
 Client Sample ID: DewBurd GW615

Report Date: 08/20/08
 Collection Date: 06/25/08 13:55
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/15/08 21:56/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	07/15/08 21:56/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1830	pCi/L		100			1	D5072-92	06/30/08 17:19/eli-c
Radon 222 precision (±)	105	pCi/L					1	D5072-92	06/30/08 17:19/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/07/08 17:12/eli-c
Arsenic	0.024	mg/L		0.001			10	E200.8	07/07/08 17:12/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 23:55/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/07/08 17:12/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 23:55/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/07/08 17:12/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 23:55/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/07/08 23:55/eli-c
Iron	1.50	mg/L		0.03			2	E200.7	07/07/08 23:55/eli-c
Lead	0.013	mg/L	D	0.007			10	E200.8	07/07/08 17:12/eli-c
Manganese	0.07	mg/L		0.01			2	E200.7	07/07/08 23:55/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/10/08 16:06/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 23:55/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 23:55/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/07/08 17:12/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/07/08 17:12/eli-c
Strontium	1.4	mg/L		0.1			2	E200.7	07/07/08 23:55/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/07/08 17:12/eli-c
Uranium	0.0023	mg/L		0.0003			10	E200.8	07/07/08 17:12/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/07/08 23:55/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.39	%					1	A1030 E	08/20/08 00:00/kl
Anions	10.6	meq/L					1	A1030 E	08/20/08 00:00/kl
Cations	11.1	meq/L					1	A1030 E	08/20/08 00:00/kl
Solids, Total Dissolved Calculated	696	mg/L					1	A1030 E	08/20/08 00:00/kl
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	08/20/08 00:00/kl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-003
 Client Sample ID: DewBurd GW681

Report Date: 08/20/08
 Collection Date: 06/25/08 17:30
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	170	mg/L		5		1	A2320 B 07/03/08 12:03/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/03/08 12:03/mb
Bicarbonate as HCO3	207	mg/L		5		1	A2320 B 07/03/08 12:03/mb
Calcium	62.3	mg/L		0.5		2	E200.7 07/09/08 16:08/eli-c
Chloride	15	mg/L		1		1	E300.0 06/27/08 07:53/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 06/27/08 07:53/jmh
Magnesium	24.0	mg/L		0.5		2	E200.7 07/09/08 16:08/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 06/30/08 13:46/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 06/27/08 07:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 06/27/08 07:53/jmh
Potassium	9.7	mg/L		0.5		2	E200.7 07/09/08 16:08/eli-c
Silica	3.9	mg/L		0.5		2	E200.7 07/09/08 16:08/eli-c
Sodium	210	mg/L	D	2		2	E200.7 07/09/08 16:08/eli-c
Sulfate	449	mg/L		1		20	E300.0 06/27/08 07:36/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1390	umhos/cm		5.0		1	A2510 B 07/01/08 11:21/tb
Oxidation-Reduction Potential	140	mV				1	A2580 B 06/27/08 00:00/jmh
pH	7.99	s.u.		0.01		1	A4500-H B 07/01/08 10:14/tb
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.10		1	Calculation 08/20/08 17:12/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5		1	A2540 C 06/27/08 12:04/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 07/09/08 16:08/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/15/08 19:40/eli-c
Barium	ND	mg/L		0.1		2	E200.7 07/09/08 16:08/eli-c
Boron	ND	mg/L		0.1		2	E200.7 07/09/08 16:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/15/08 19:40/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/09/08 16:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/15/08 19:40/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/09/08 16:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/15/08 19:40/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7 07/09/08 16:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/15/08 19:40/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 07/09/08 16:08/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/09/08 16:08/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 15:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/15/08 19:40/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060452-003
Client Sample ID: DewBurd GW681

Report Date: 08/20/08
Collection Date: 06/25/08 17:30
Date Received: 06/26/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/15/08 19:40/eli-c
Uranium	0.0097	mg/L		0.0003		1	E200.8 07/15/08 19:40/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/09/08 16:08/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/09/08 16:08/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/10/08 11:51/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 12:01/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:37/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1390	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha precision (±)	23.2	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Alpha MDC	3.5	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta	364	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta precision (±)	6.2	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0 07/26/08 03:41/eli-c
Lead 210	42.2	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Lead 210 precision (±)	7.4	pCi/L				1	E909.0M 07/11/08 07:20/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008 07/10/08 21:30/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008 07/10/08 21:30/eli-c
Radium 226	434	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Radium 226 precision (±)	5.5	pCi/L				1	E903.0 07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/21/08 21:24/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0 07/21/08 21:24/eli-c
Gross Gamma	210	pCi/L		20		1	E901.1 07/14/08 11:00/eli-c
Gross Gamma precision (±)	45	pCi/L				1	E901.1 07/14/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	6.2	pCi/L	U			1	E909.0M 07/08/08 06:20/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M 07/08/08 06:20/eli-c
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.81	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	0.7	pCi/L				1	E903.0 07/15/08 21:56/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-003
 Client Sample ID: DewBurd GW681

Report Date: 08/20/08
 Collection Date: 06/25/08 17:30
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	07/15/08 21:56/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	07/15/08 21:56/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	389000	pCi/L		100			1	D5072-92	06/30/08 17:19/eli-c
Radon 222 precision (±)	953	pCi/L					1	D5072-92	06/30/08 17:19/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/07/08 17:18/eli-c
Arsenic	0.001	mg/L		0.001			10	E200.8	07/07/08 17:18/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/07/08 23:59/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/07/08 17:18/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/07/08 23:59/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/07/08 17:18/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/07/08 23:59/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/07/08 23:59/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	07/07/08 23:59/eli-c
Lead	0.013	mg/L	D	0.007			10	E200.8	07/07/08 17:18/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	07/07/08 23:59/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/10/08 16:08/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/07/08 23:59/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/07/08 23:59/eli-c
Selenium	0.002	mg/L	D	0.002			10	E200.8	07/07/08 17:18/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/07/08 17:18/eli-c
Strontium	1.1	mg/L		0.1			2	E200.7	07/07/08 23:59/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/07/08 17:18/eli-c
Uranium	0.0102	mg/L		0.0003			10	E200.8	07/07/08 17:18/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/07/08 23:59/eli-c
DATA QUALITY									
A/C Balance (± 5)	4.51	%					1	A1030 E	08/20/08 00:00/kl
Anions	13.2	meq/L					1	A1030 E	08/20/08 00:00/kl
Cations	14.5	meq/L					1	A1030 E	08/20/08 00:00/kl
Solids, Total Dissolved Calculated	883	mg/L					1	A1030 E	08/20/08 00:00/kl
TDS Balance (0.80 - 1.20)	0.990						1	A1030 E	08/20/08 00:00/kl

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060452-004
Client Sample ID: DewBurd GW689

Report Date: 08/20/08
Collection Date: 06/25/08 18:18
Date Received: 06/26/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B 07/03/08 12:07/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/03/08 12:07/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B 07/03/08 12:07/mb
Calcium	46.7	mg/L		0.5		2	E200.7 07/09/08 16:12/eli-c
Chloride	5	mg/L		1		1	E300.0 06/27/08 09:31/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 06/27/08 09:31/jmh
Magnesium	16.0	mg/L		0.5		2	E200.7 07/09/08 16:12/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 06/30/08 13:48/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 06/27/08 09:31/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 06/27/08 09:31/jmh
Potassium	7.7	mg/L		0.5		2	E200.7 07/09/08 16:12/eli-c
Silica	4.3	mg/L		0.5		2	E200.7 07/09/08 16:12/eli-c
Sodium	174	mg/L	D	2		2	E200.7 07/09/08 16:12/eli-c
Sulfate	366	mg/L		1		20	E300.0 06/27/08 08:42/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1270	umhos/cm		5.0		1	A2510 B 07/01/08 11:24/tb
Oxidation-Reduction Potential	150	mV				1	A2580 B 06/27/08 00:00/jmh
pH	8.08	s.u.		0.01		1	A4500-H B 07/01/08 10:15/tb
Sodium Adsorption Ratio (SAR)	5.6	unitless		0.10		1	Calculation 08/20/08 17:12/ADM
Solids, Total Dissolved TDS @ 180 C	700	mg/L		5		1	A2540 C 06/27/08 12:05/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 07/09/08 16:12/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 07/17/08 20:51/eli-c
Barium	ND	mg/L		0.1		2	E200.7 07/09/08 16:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7 07/09/08 16:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/17/08 20:51/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/09/08 16:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/17/08 20:51/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/09/08 16:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/17/08 20:51/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7 07/09/08 16:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/17/08 20:51/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 07/09/08 16:12/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/09/08 16:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 15:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/17/08 20:51/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-004
 Client Sample ID: DewBurd GW689

Report Date: 08/20/08
 Collection Date: 06/25/08 18:18
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/17/08 20:51/eli-c
Uranium	0.0034	mg/L		0.0003			1	E200.8	07/17/08 20:51/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	07/09/08 16:12/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/09/08 16:12/eli-c
METALS - SUSPENDED									
Uranium	0.0005	mg/L		0.0003			1	E200.8	07/10/08 11:56/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/19/08 12:03/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/19/08 14:37/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	36.5	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Alpha precision (±)	3.7	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Alpha MDC	2.8	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Beta	15.0	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Beta precision (±)	2.1	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Beta MDC	3.0	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Lead 210	-6.5	pCi/L	U				1	E909.0M	07/11/08 07:20/eli-c
Lead 210 MDC	11.4	pCi/L					1	E909.0M	07/11/08 07:20/eli-c
Lead 210 precision (±)	6.7	pCi/L					1	E909.0M	07/11/08 07:20/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.40	pCi/L					1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	5.5	pCi/L					1	E903.0	07/21/08 22:27/eli-c
Radium 226 precision (±)	0.6	pCi/L					1	E903.0	07/21/08 22:27/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	07/22/08 11:26/eli-c
Gross Gamma	0.0	pCi/L	U	20			1	E901.1	07/14/08 11:00/eli-c
Gross Gamma precision (±)	20	pCi/L					1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	1	pCi/L	U				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L					1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.1	pCi/L	U	1.0			1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.24	pCi/L					1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.05	pCi/L	U				1	E903.0	07/15/08 21:56/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08060452-004
 Client Sample ID: DewBurd GW689

Report Date: 08/20/08
 Collection Date: 06/25/08 18:18
 Date Received: 06/26/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	07/15/08 21:56/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	07/15/08 21:56/eli-c
Thorium 230	0.4	pCi/L		0.2		1 E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	2520	pCi/L		100		1 D5072-92	06/30/08 17:19/eli-c
Radon 222 precision (±)	109	pCi/L				1 D5072-92	06/30/08 17:19/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	07/07/08 17:25/eli-c
Arsenic	0.003	mg/L		0.001		10 E200.8	07/07/08 17:25/eli-c
Barium	ND	mg/L		0.1		2 E200.7	07/08/08 00:15/eli-c
Beryllium	ND	mg/L		0.001		10 E200.8	07/07/08 17:25/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/08/08 00:15/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	07/07/08 17:25/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/08/08 00:15/eli-c
Copper	ND	mg/L		0.01		2 E200.7	07/08/08 00:15/eli-c
Iron	1.15	mg/L		0.03		2 E200.7	07/08/08 00:15/eli-c
Lead	0.017	mg/L	D	0.007		10 E200.8	07/07/08 17:25/eli-c
Manganese	0.07	mg/L		0.01		2 E200.7	07/08/08 00:15/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/10/08 16:11/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/08/08 00:15/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/08/08 00:15/eli-c
Selenium	ND	mg/L	D	0.002		10 E200.8	07/07/08 17:25/eli-c
Silver	ND	mg/L		0.005		10 E200.8	07/07/08 17:25/eli-c
Strontium	1.0	mg/L		0.1		2 E200.7	07/08/08 00:15/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	07/07/08 17:25/eli-c
Uranium	0.0060	mg/L		0.0003		10 E200.8	07/07/08 17:25/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	07/08/08 00:15/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.76	%				1 A1030 E	08/20/08 00:00/lkl
Anions	10.8	meq/L				1 A1030 E	08/20/08 00:00/lkl
Cations	11.4	meq/L				1 A1030 E	08/20/08 00:00/lkl
Solids, Total Dissolved Calculated	718	mg/L				1 A1030 E	08/20/08 00:00/lkl
TDS Balance (0.80 - 1.20)	0.980					1 A1030 E	08/20/08 00:00/lkl

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080703A-ALK-SEL-W		
Sample ID: LCS1_080703A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			07/03/08 11:24
Sample ID: MBLK1_080703A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						07/03/08 11:25
Sample ID: R08060452-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 246	mg/L	5.0	102	80	120			07/03/08 11:59
Sample ID: R08060452-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 242	mg/L	5.0	98	80	120	1.6	10	07/03/08 12:01
Method: A2510 B							Batch: 080701_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080701 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			07/01/08 10:58
Sample ID: LCS1-1_080701 Conductivity @ 25 C	Laboratory Control Sample 160	umhos/cm	5.0	107	90	110			07/01/08 10:59
Sample ID: LCS2-1_080701 Conductivity @ 25 C	Laboratory Control Sample 5200	umhos/cm	5.0	104	90	110			07/01/08 11:01
Sample ID: R08060452-001ADUP Conductivity @ 25 C	Sample Duplicate 1420	umhos/cm	5.0				0.7	10	07/01/08 11:18
Sample ID: MBLK-1_080701 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						07/01/08 11:26
Method: A2540 C							Batch: 080627A-SLDS-TDS-W		
Sample ID: LCS1_080627A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 200	mg/L	5.0	98	90	110			06/27/08 11:42
Sample ID: MBLK1_080627A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						06/27/08 11:44
Sample ID: R08060452-002AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 910	mg/L	5.0	117	80	120			06/27/08 12:03
Sample ID: R08060452-002AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 910	mg/L	5.0	118	80	120	0.2	10	06/27/08 12:04

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080627-ORP-ISE-W		
Sample ID: LCS Oxidation-Reduction Potential	Laboratory Control Sample 470	mV		99	95	105			06/27/08 00:00
Sample ID: R08060452-001F Oxidation-Reduction Potential	Sample Duplicate 240	mV					1.8	10	06/27/08 00:00
Method: A3114 B							Batch: C_SE3114-080719A		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	6E-05						07/19/08 11:18
Sample ID: 288-106-2 Selenium-IV	Laboratory Control Sample 0.046	mg/L	0.0010	92	90	110			07/19/08 11:21
Sample ID: R08060452-001E Selenium-IV	Sample Matrix Spike 0.046	mg/L	0.0010	92	85	115			07/19/08 11:54
Sample ID: R08060452-001E Selenium-IV	Sample Matrix Spike Duplicate 0.047	mg/L	0.0010	94	85	115	2.5	10	07/19/08 11:56
Method: A3114 B							Batch: C_SE3114-080719C		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	6E-05						07/19/08 14:18
Sample ID: 288-106-2 Selenium	Laboratory Control Sample 0.046	mg/L	0.0010	92	90	110			07/19/08 14:20
Sample ID: R08060452-001E Selenium	Sample Matrix Spike 0.051	mg/L	0.0010	103	85	115			07/19/08 14:54
Sample ID: R08060452-001E Selenium	Sample Matrix Spike Duplicate 0.052	mg/L	0.0010	105	85	115	1.9	10	07/19/08 14:56
Method: A4500-H B							Batch: 080701_1_PH-W		
Sample ID: LCS_pH-1_080701 pH	Laboratory Control Sample 6.91	s.u.	0.010	101	98.55	101.45			07/01/08 10:01
Sample ID: R08060452-002ADUP pH	Sample Duplicate 7.52	s.u.	0.010				0.5	1.25	07/01/08 10:14

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-06-30_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080630A			06/30/08 13:22
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	106	90	110			06/30/08 13:23
						Run: TECHAA2-R_080630A			06/30/08 13:24
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110			06/30/08 13:24
						Run: TECHAA2-R_080630A			06/30/08 13:38
Sample ID: R08060447-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.19	mg/L	0.10	77	80	120			S
						Run: TECHAA2-R_080630A			06/30/08 13:39
Sample ID: R08060447-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.19	mg/L	0.10	77	80	120	0.5	10	S
						Run: TECHAA2-R_080630A			06/30/08 13:57
Sample ID: R08060454-001CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.25	mg/L	0.10	100	80	120			06/30/08 13:57
						Run: TECHAA2-R_080630A			06/30/08 13:58
Sample ID: R08060454-001CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.25	mg/L	0.10	101	80	120	0.8	10	
						Run: TECHAA2-R_080630A			06/30/08 13:58
Method: D5072-92							Batch: C_R103572		
Sample ID: C08061327-001IDUP Radon 222	Sample Duplicate 285	pCi/L	100				24	30	06/30/08 17:19
						Run: SUB-C103572			06/30/08 17:19
Sample ID: MB-R103572 Radon 222	Method Blank 20	pCi/L							06/30/08 17:19
						Run: SUB-C103572			06/30/08 17:19
Sample ID: LCS-R103572 Radon 222	Laboratory Control Sample 300	pCi/L	100	93	70	130			06/30/08 17:19

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18997		
Sample ID: MB-18997	Method Blank			Run: SUB-C103815			07/07/08 23:38		
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.002	mg/L	0.001						
Sample ID: LCS3-18997	Laboratory Control Sample			Run: SUB-C103815			07/07/08 23:42		
Barium	0.498	mg/L	0.10	100	85	115			
Boron	0.513	mg/L	0.10	103	85	115			
Chromium	0.511	mg/L	0.050	102	85	115			
Copper	0.505	mg/L	0.010	101	85	115			
Iron	2.72	mg/L	0.030	109	85	115			
Manganese	2.56	mg/L	0.010	102	85	115			
Molybdenum	0.502	mg/L	0.10	100	85	115			
Nickel	0.512	mg/L	0.050	102	85	115			
Strontium	0.506	mg/L	0.10	101	85	115			
Zinc	0.505	mg/L	0.010	101	85	115			
Sample ID: C08061335-006B MS3	Sample Matrix Spike			Run: SUB-C103815			07/08/08 00:44		
Barium	0.704	mg/L	0.10	111	70	130			
Boron	0.639	mg/L	0.10	105	70	130			
Chromium	0.588	mg/L	0.050	107	70	130			
Copper	0.526	mg/L	0.010	101	70	130			
Iron	41.5	mg/L	0.030		70	130			A
Manganese	2.87	mg/L	0.010	101	70	130			
Molybdenum	0.476	mg/L	0.10	95	70	130			
Nickel	0.540	mg/L	0.050	100	70	130			
Strontium	1.06	mg/L	0.10	100	70	130			
Zinc	0.585	mg/L	0.010	100	70	130			
Sample ID: C08061335-006B MSD3	Sample Matrix Spike Duplicate			Run: SUB-C103815			07/08/08 00:48		
Barium	0.718	mg/L	0.10	114	70	130	2.1	20	
Boron	0.646	mg/L	0.10	107	70	130	1.1	20	
Chromium	0.611	mg/L	0.050	112	70	130	3.7	20	
Copper	0.540	mg/L	0.010	104	70	130	2.6	20	
Iron	41.0	mg/L	0.030		70	130	1.4	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_18997		
Sample ID: C08061335-006B MSD3		Sample Matrix Spike Duplicate			Run: SUB-C103815		07/08/08 00:48		
Manganese	2.91	mg/L	0.010	102	70	130	1.3	20	
Molybdenum	0.491	mg/L	0.10	98	70	130	3.1	20	
Nickel	0.568	mg/L	0.050	106	70	130	4.9	20	
Strontium	1.05	mg/L	0.10	99	70	130	0.8	20	
Zinc	0.602	mg/L	0.010	103	70	130	2.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103988		
Sample ID: MB-080709A	Method Blank			Run: SUB-C103988			07/09/08 14:52		
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.009	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.003	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080709A	Laboratory Fortified Blank			Run: SUB-C103988			07/09/08 14:56		
Silica	0.37	mg/L	0.10	91	85	125			
Aluminum	1.0	mg/L	0.10	104	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.0	mg/L	0.10	100	85	125			
Calcium	53	mg/L	0.50	105	85	125			
Chromium	1.0	mg/L	0.050	102	85	125			
Iron	1.1	mg/L	0.030	107	85	125			
Magnesium	53	mg/L	0.50	106	85	125			
Manganese	1.0	mg/L	0.010	103	85	125			
Molybdenum	1.0	mg/L	0.10	102	85	125			
Nickel	1.0	mg/L	0.050	101	85	125			
Potassium	46	mg/L	0.50	93	85	125			
Sodium	50	mg/L	0.77	100	85	125			
Vanadium	1.0	mg/L	0.10	104	85	125			
Zinc	1.0	mg/L	0.010	103	85	125			
Sample ID: C08061365-007BMS2	Sample Matrix Spike			Run: SUB-C103988			07/09/08 16:24		
Aluminum	4.94	mg/L	0.10	99	70	130			
Barium	4.75	mg/L	0.10	95	70	130			
Boron	5.38	mg/L	0.10	96	70	130			
Chromium	4.88	mg/L	0.050	98	70	130			
Iron	5.00	mg/L	0.030	100	70	130			
Manganese	4.84	mg/L	0.010	97	70	130			
Molybdenum	4.93	mg/L	0.10	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R103988		
Sample ID: C08061365-007BMS2	Sample Matrix Spike			Run: SUB-C103988			07/09/08 16:24		
Nickel	4.82	mg/L	0.050	96	70	130			
Vanadium	4.91	mg/L	0.10	98	70	130			
Zinc	4.99	mg/L	0.011	99	70	130			
Calcium	258	mg/L	1.0	98	70	130			
Magnesium	250	mg/L	1.0	99	70	130			
Potassium	220	mg/L	1.0	87	70	130			
Silica	8.66	mg/L	0.10	82	70	130			
Sodium	773	mg/L	3.9	88	70	130			
Sample ID: C08061365-007BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C103988			07/09/08 16:28		
Aluminum	4.91	mg/L	0.10	98	70	130	0.6	20	
Barium	4.76	mg/L	0.10	95	70	130	0.1	20	
Boron	5.41	mg/L	0.10	97	70	130	0.7	20	
Chromium	4.85	mg/L	0.050	97	70	130	0.6	20	
Iron	5.00	mg/L	0.030	100	70	130	0.0	20	
Manganese	4.81	mg/L	0.010	96	70	130	0.6	20	
Molybdenum	4.95	mg/L	0.10	99	70	130	0.4	20	
Nickel	4.80	mg/L	0.050	96	70	130	0.5	20	
Vanadium	4.83	mg/L	0.10	97	70	130	1.6	20	
Zinc	4.98	mg/L	0.011	99	70	130	0.3	20	
Calcium	257	mg/L	1.0	98	70	130	0.6	20	
Magnesium	249	mg/L	1.0	99	70	130	0.6	20	
Potassium	221	mg/L	1.0	88	70	130	0.6	20	
Silica	8.55	mg/L	0.10	76	70	130	1.3	20	
Sodium	778	mg/L	3.9	91	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_18997		
Sample ID: MB-18997	Method Blank		Run: SUB-C103823			07/07/08 16:51			
Antimony	0.0004	mg/L	0.0002						
Arsenic	0.0009	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	0.006	mg/L							
Selenium	0.0004	mg/L	0.0002						
Silver	6E-05	mg/L	5E-05						
Thallium	ND	mg/L	4E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18997	Laboratory Control Sample		Run: SUB-C103823			07/07/08 16:58			
Antimony	0.569	mg/L	0.050	114	85	115			
Arsenic	0.554	mg/L	0.0010	111	85	115			
Beryllium	0.265	mg/L	0.010	106	85	115			
Cadmium	0.270	mg/L	0.010	108	85	115			
Lead	0.562	mg/L	0.050	111	85	115			
Selenium	0.556	mg/L	0.0020	111	85	115			
Silver	0.0448	mg/L	0.010	89	85	115			
Thallium	0.532	mg/L	0.10	106	85	115			
Uranium	0.543	mg/L	0.00032	109	85	115			
Sample ID: C08061335-006BMS3	Sample Matrix Spike		Run: SUB-C103823			07/07/08 18:33			
Antimony	0.409	mg/L	0.050	82	70	130			
Arsenic	0.638	mg/L	0.0010	125	70	130			
Beryllium	0.285	mg/L	0.010	113	70	130			
Cadmium	0.305	mg/L	0.010	122	70	130			
Lead	0.651	mg/L	0.050	122	70	130			
Selenium	0.627	mg/L	0.0020	125	70	130			
Silver	0.0530	mg/L	0.010	106	70	130			
Thallium	0.607	mg/L	0.10	121	70	130			
Uranium	0.630	mg/L	0.00032	126	70	130			
Sample ID: C08061335-006BMSD3	Sample Matrix Spike Duplicate		Run: SUB-C103823			07/07/08 18:40			
Antimony	0.397	mg/L	0.050	79	70	130	2.9	20	
Arsenic	0.632	mg/L	0.0010	124	70	130	0.8	20	
Beryllium	0.282	mg/L	0.010	112	70	130	1.1	20	
Cadmium	0.300	mg/L	0.010	120	70	130	1.7	20	
Lead	0.638	mg/L	0.050	120	70	130	2.0	20	
Selenium	0.625	mg/L	0.0020	124	70	130	0.3	20	
Silver	0.0550	mg/L	0.010	110	70	130	3.8	20	
Thallium	0.596	mg/L	0.10	119	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18997
Sample ID: C08061335-006BMSD3	Sample Matrix Spike Duplicate								Run: SUB-C103823 07/07/08 18:40
Uranium	0.614	mg/L	0.00032	122	70	130	2.6	20	
Method: E200.8									Batch: C_19014
Sample ID: MB-19014	Method Blank								Run: SUB-C104018 07/10/08 11:31
Uranium	2E-05	mg/L	2E-05						
Sample ID: LCS1-19014	Laboratory Control Sample								Run: SUB-C104018 07/10/08 11:36
Uranium	0.0504	mg/L	0.00030	96	80	120			
Sample ID: C08061394-007IMS4	Post Digestion Spike								Run: SUB-C104018 07/10/08 12:51
Uranium	0.0119	mg/L	0.00030	95	70	130			
Sample ID: C08061394-007IMSD4	Post Digestion Spike Duplicate								Run: SUB-C104018 07/10/08 12:56
Uranium	0.0120	mg/L	0.00030	95	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104306		
Sample ID: LRB	Method Blank		Run: SUB-C104306			07/15/08 12:08			
Arsenic	ND	mg/L	6E-05						
Cadmium	2E-05	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	7E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104306			07/15/08 12:15			
Arsenic	0.0503	mg/L	0.0010	101	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Copper	0.0505	mg/L	0.0010	101	85	115			
Lead	0.0512	mg/L	0.0010	102	85	115			
Mercury	0.00506	mg/L	0.0010	101	85	115			
Silver	0.0194	mg/L	0.0010	97	85	115			
Thorium 232	0.0507	mg/L	0.0010	101	85	115			
Uranium	0.0509	mg/L	0.00030	102	85	115			
Sample ID: C08061021-002CMS4	Post Digestion Spike		Run: SUB-C104306			07/15/08 19:27			
Arsenic	0.459	mg/L	0.0010	90	70	130			
Cadmium	0.433	mg/L	0.010	86	70	130			
Copper	0.464	mg/L	0.010	89	70	130			
Lead	0.456	mg/L	0.050	87	70	130			
Mercury	0.0437	mg/L	0.0010	87	70	130			
Silver	0.172	mg/L	0.010	86	70	130			
Thorium 232	0.436	mg/L	0.0010	86	70	130			
Uranium	0.439	mg/L	0.00030	87	70	130			
Sample ID: C08061021-002CMSD4	Post Digestion Spike Duplicate		Run: SUB-C104306			07/15/08 19:34			
Arsenic	0.541	mg/L	0.0010	107	70	130	16	20	
Cadmium	0.530	mg/L	0.010	106	70	130	20	20	R
Copper	0.541	mg/L	0.010	104	70	130	15	20	
Lead	0.546	mg/L	0.050	105	70	130	18	20	
Mercury	0.0529	mg/L	0.0010	106	70	130	19	20	
Silver	0.177	mg/L	0.010	89	70	130	3.2	20	
Thorium 232	0.528	mg/L	0.0010	105	70	130	19	20	
Uranium	0.528	mg/L	0.00030	105	70	130	18	20	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104438		
Sample ID: LRB	Method Blank			Run: SUB-C104438			07/17/08 11:20		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	4E-05	mg/L	3E-05						
Thorium 232	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104438			07/17/08 11:26		
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Cadmium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0517	mg/L	0.0010	103	85	115			
Lead	0.0515	mg/L	0.0010	103	85	115			
Mercury	0.00546	mg/L	0.0010	109	85	115			
Silver	0.0201	mg/L	0.0010	100	85	115			
Thorium 232	0.0506	mg/L	0.0010	101	85	115			
Uranium	0.0509	mg/L	0.00030	102	85	115			
Sample ID: R08060452-001C	Post Digestion Spike			Run: SUB-C104438			07/17/08 20:17		
Arsenic	0.0486	mg/L	0.0010	96	70	130			
Cadmium	0.0455	mg/L	0.010	91	70	130			
Copper	0.0450	mg/L	0.010	90	70	130			
Lead	0.0481	mg/L	0.050	95	70	130			
Mercury	0.00500	mg/L	0.0010	100	70	130			
Silver	0.0110	mg/L	0.010	55	70	130			S
Thorium 232	0.0492	mg/L	0.0010	98	70	130			
Uranium	0.0537	mg/L	0.00030	97	70	130			
Sample ID: R08060452-001C	Post Digestion Spike Duplicate			Run: SUB-C104438			07/17/08 20:24		
Arsenic	0.0482	mg/L	0.0010	95	70	130	0.9	20	
Cadmium	0.0459	mg/L	0.010	92	70	130	0.9	20	
Copper	0.0453	mg/L	0.010	90	70	130	0.7	20	
Lead	0.0479	mg/L	0.050	95	70	130	0.0	20	
Mercury	0.00503	mg/L	0.0010	101	70	130	0.6	20	
Silver	0.0128	mg/L	0.010	64	70	130	16	20	S
Thorium 232	0.0491	mg/L	0.0010	97	70	130	0.1	20	
Uranium	0.0536	mg/L	0.00030	97	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_33447
Sample ID: MB-33447	Method Blank								07/10/08 15:05
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33447	Laboratory Fortified Blank								07/10/08 15:08
Mercury	0.0020	mg/L	0.0010	98	85	115			
Sample ID: B08062984-005CMS	Sample Matrix Spike								07/10/08 15:36
Mercury	0.0021	mg/L	0.0010	103	70	130			
Sample ID: B08062984-005CMSD	Sample Matrix Spike Duplicate								07/10/08 15:38
Mercury	0.0021	mg/L	0.0010	103	70	130	1.0	30	
Method: E245.1									Analytical Run: SUB-B113849
Sample ID: QCS	Initial Calibration Verification Standard								07/10/08 14:56
Mercury	0.0019	mg/L	0.0010	94	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35707		
Sample ID: LFB0806260829-3	Laboratory Fortified Blank			Run: DIONEX_080627A			06/26/08 19:18		
Chloride	4.77	mg/L	0.50	95	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.46	mg/L	0.10	98	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: LFB0806260829-4	Laboratory Fortified Blank			Run: DIONEX_080627A			06/26/08 19:34		
Chloride	4.71	mg/L	0.50	94	90	110			
Fluoride	1.84	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R08060449-002AMS	Sample Matrix Spike			Run: DIONEX_080627A			06/27/08 05:41		
Chloride	25.1	mg/L	0.50		80	120			A
Fluoride	2.90	mg/L	0.10	95	80	120			
Nitrogen, Nitrate as N	2.59	mg/L	0.10	98	80	120			
Nitrogen, Nitrite as N	2.50	mg/L	0.10	100	80	120			
Sulfate	286	mg/L	1.0		80	120			A
Sample ID: R08060449-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080627A			06/27/08 05:58		
Chloride	25.1	mg/L	0.50		80	120	0.2	10	A
Fluoride	2.81	mg/L	0.10	91	80	120	3.2	10	
Nitrogen, Nitrate as N	2.49	mg/L	0.10	94	80	120	3.9	10	
Nitrogen, Nitrite as N	2.35	mg/L	0.10	94	80	120	6.2	10	
Sulfate	286	mg/L	1.0		80	120	0.0	10	A
Sample ID: R08060452-004AMS	Sample Matrix Spike			Run: DIONEX_080627A			06/27/08 08:58		
Chloride	98.8	mg/L	2.2	88	80	120			
Fluoride	37.3	mg/L	0.22	86	80	120			
Nitrogen, Nitrate as N	46.5	mg/L	0.50	93	80	120			
Nitrogen, Nitrite as N	49.4	mg/L	1.2	99	80	120			
Sulfate	598	mg/L	1.3	77	80	120			S
Sample ID: R08060452-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080627A			06/27/08 09:15		
Chloride	97.3	mg/L	2.2	87	80	120	1.5	10	
Fluoride	36.6	mg/L	0.22	84	80	120	1.9	10	
Nitrogen, Nitrate as N	45.6	mg/L	0.50	91	80	120	2.0	10	
Nitrogen, Nitrite as N	48.6	mg/L	1.2	97	80	120	1.5	10	
Sulfate	592	mg/L	1.3	75	80	120	1.0	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0485		
Sample ID: MB-GrAB-0485	Method Blank				Run: SUB-C104921			07/26/08 03:40	
Gross Alpha	2	pCi/L							
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0485	Laboratory Control Sample				Run: SUB-C104921			07/26/08 03:40	
Gross Alpha	120	pCi/L	87		70	130			
Sample ID: Cs137-GrAB-0485	Laboratory Control Sample				Run: SUB-C104921			07/26/08 03:41	
Gross Beta	100	pCi/L	108		70	130			
Sample ID: C08061318-001DMS	Sample Matrix Spike				Run: SUB-C104921			07/26/08 21:24	
Gross Alpha	168	pCi/L	119		70	130			
Sample ID: C08061318-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104921			07/26/08 21:24	
Gross Alpha	148	pCi/L	105		70	130	12	16.3	
Sample ID: C08061318-001DMS	Sample Matrix Spike				Run: SUB-C104921			07/26/08 21:25	
Gross Beta	95.8	pCi/L	100		70	130			
Sample ID: C08061318-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104921			07/26/08 21:25	
Gross Beta	98.1	pCi/L	102		70	130	2.3	16	
Method: E901.1							Batch: C_R104392		
Sample ID: LCS-R104392	Laboratory Control Sample				Run: SUB-C104392			07/14/08 11:00	
Cesium 137	450000	pCi/L	20	104	70	130			
Cobalt 60	330000	pCi/L	20	104	70	130			
Sample ID: MB-R104392	Method Blank				Run: SUB-C104392			07/14/08 11:00	
Gross Gamma	ND	pCi/L							
Sample ID: C08061335-006IDUP	Sample Duplicate				Run: SUB-C104392			07/14/08 11:00	
Gross Gamma	ND	pCi/L	20				0.0	30	
Sample ID: C08061372-014ADUP	Sample Duplicate				Run: SUB-C104392			07/14/08 11:00	
Gross Gamma	ND	pCi/L	20				0.0	30	U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_19014		
Sample ID: R08060452-004I Radium 226	Sample Matrix Spike 140 pCi/L			92	70	130			07/15/08 21:56
Sample ID: R08060452-004I Radium 226	Sample Matrix Spike Duplicate 150 pCi/L			95	70	130	3.6	24.2	07/15/08 21:56
Sample ID: LCS-19014 Radium 226	Laboratory Control Sample 13 pCi/L			94	70	130			07/16/08 01:53
Sample ID: MB-19014 Radium 226	Method Blank -2 pCi/L								07/16/08 01:53 U
Method: E903.0							Batch: C_RA226-2936		
Sample ID: MB-RA226-2936 Radium 226	Method Blank -0.1 pCi/L								07/21/08 18:07 U
Sample ID: LCS-RA226-2936 Radium 226	Laboratory Control Sample 7.6 pCi/L			98	70	130			07/22/08 00:40
Sample ID: C08061394-007HMS Radium 226	Sample Matrix Spike 17 pCi/L			107	70	130			07/22/08 00:40
Sample ID: C08061394-007HMSD Radium 226	Sample Matrix Spike Duplicate 16 pCi/L			103	70	130	3.9	23.9	07/22/08 00:40
Method: E907.0							Batch: C_19014		
Sample ID: C08061394-007IMS Thorium 230	Sample Matrix Spike 21.4 pCi/L		0.20	92	70	130			07/11/08 17:06
Sample ID: C08061394-007IMSD Thorium 230	Sample Matrix Spike Duplicate 19.9 pCi/L		0.20	90	70	130	7.4	30	07/11/08 17:07
Sample ID: LCS-19014 Thorium 230	Laboratory Control Sample 46.6 pCi/L		0.20	98	70	130			07/11/08 17:07
Sample ID: MB-19014 Thorium 230	Method Blank -0.08 pCi/L								07/11/08 17:07 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/20/08
 Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0571		
Sample ID: LCS-RA-TH-ISO-0571	Laboratory Control Sample				Run: SUB-C104913				07/21/08 21:24
Thorium 230	6.31	pCi/L	0.20	103	70	130			
Sample ID: R08060452-002H	Sample Matrix Spike				Run: SUB-C104913				07/21/08 21:24
Thorium 230	15.3	pCi/L	0.20	94	70	130			
Sample ID: R08060452-002H	Sample Matrix Spike Duplicate				Run: SUB-C104913				07/21/08 21:24
Thorium 230	16.6	pCi/L	0.20	103	70	130	8.4	30	
Sample ID: MB-RA-TH-ISO-0571	Method Blank				Run: SUB-C104913				07/23/08 22:41
Thorium 230	0.03	pCi/L							U
Method: E909.0M							Batch: C_19014		
Sample ID: C08061394-001IMS	Sample Matrix Spike				Run: SUB-C105485				07/08/08 06:20
Lead 210	150	pCi/L		52	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MSD are acceptable the batch is approved.									
Sample ID: C08061394-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C105485				07/08/08 06:20
Lead 210	230	pCi/L		78	70	130	38	30	R
Sample ID: MB-R105485	Method Blank				Run: SUB-C105485				07/08/08 06:20
Lead 210	4	pCi/L							U
Sample ID: LCS-R105485	Laboratory Control Sample				Run: SUB-C105485				07/08/08 06:20
Lead 210	140	pCi/L		115	70	130			
Method: E909.0M							Batch: C_R105208		
Sample ID: C08061394-002HMS	Sample Matrix Spike				Run: SUB-C105208				07/11/08 07:20
Lead 210	310	pCi/L		53	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08061394-002HMSD	Sample Matrix Spike Duplicate				Run: SUB-C105208				07/11/08 07:20
Lead 210	360	pCi/L		61	70	130	15	30	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: R08060452-001H	Sample Duplicate				Run: SUB-C105208				07/11/08 07:20
Lead 210	-5.5	pCi/L	1.0				0.0	30	U
Sample ID: MB-R105208	Method Blank				Run: SUB-C105208				07/11/08 07:20
Lead 210	-5	pCi/L							U
Sample ID: LCS-R105208	Laboratory Control Sample				Run: SUB-C105208				07/11/08 07:20
Lead 210	110	pCi/L		96	70	130			

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060452

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_19014		
Sample ID: C08061292-001BMS	Sample Matrix Spike				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	18	pCi/L	1.0	124	70	130			
Sample ID: C08061292-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	15	pCi/L	1.0	104	70	130	18	30	
Sample ID: LCS-19014	Laboratory Control Sample				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	84	pCi/L	1.0	101	70	130			
Sample ID: MB-19014	Method Blank				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	1	pCi/L							
Method: RMO-3008							Batch: C_R104448		
Sample ID: C08061335-003JMS	Sample Matrix Spike				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	79	pCi/L	1.0	91	70	130			
Sample ID: C08061335-003JMSD	Sample Matrix Spike Duplicate				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	60	pCi/L	1.0	69	70	130	28	30	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MS are acceptable the batch is approved.									
Sample ID: LCS-R104448	Laboratory Control Sample				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	36	pCi/L	1.0	83	70	130			
Sample ID: MB-R104448	Method Blank				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	ND	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: DESER		Project Name: PWS, Permit, Etc. Robert Tech Perry Burkack		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: DESER		Contact Name: Robert Tech Perry Burkack		Sampler: (Please Print) ERIC KRANKE	Invoice Address: copy for man & res per on 605.344.4700
Special Report/Formats - ELL must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDIT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDIT (Electronic Data) <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC		Number of Containers Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other		Purchase Order: 605.344.4700	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time	
MATRIX		ANALYSIS REQUESTED		SEE ATTACHED	
Normal Turnaround (TAT)		RUSH		Comments: All GW	
Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page		Receipt Temp 8.4 °C		On Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Custody Seal Intact: Y N		Signature: Y N		Signature: Y N	
1 Desfund GW 622		6/25/08		12:05	
2 Desfund GW 615		6/25/08		13:55	
3 Desfund GW 689		6/25/08		17:30	
4 Desfund GW 689		6/25/08		18:18	
5		6		7	
8		9		10	
Custody Record MUST be Signed		Holding/Released by (print): Eric Kranke		Date/Time: 6/25/08 0930	
Signature: [Signature]		Received by (print): Steve Proband		Date/Time: 6/26/08 9:30	
Signature: [Signature]		Received by Laboratory: [Signature]		Date/Time: [Signature]	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This service as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

August 21, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08070005 Quote ID: R286

Project Name: Edgemont

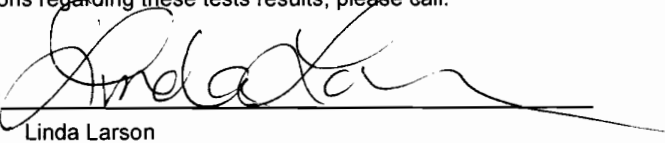
Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 7/1/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070005-001	DewBurd GW16	06/30/08 13:45	07/01/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08070005-002	DewBurd GW688	06/30/08 18:39	07/01/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:



Linda Larson
 Rapid City - Project Manager



Date: 21-Aug-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070005

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08070216

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08070216



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070005-001
 Client Sample ID: DewBurd GW16

Report Date: 08/21/08
 Collection Date: 06/30/08 13:45
 Date Received: 07/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B 07/03/08 12:27/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/03/08 12:27/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B 07/03/08 12:27/mb
Calcium	125	mg/L		0.5		2	E200.7 07/10/08 18:43/eli-c
Chloride	4	mg/L		1		1	E300.0 07/01/08 22:19/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 07/01/08 22:19/jmh
Magnesium	47.0	mg/L		0.5		2	E200.7 07/10/08 18:43/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 07/12/08 17:06/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/01/08 22:19/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/01/08 22:19/jmh
Potassium	16.7	mg/L		0.5		2	E200.7 07/10/08 18:43/eli-c
Silica	3.9	mg/L		0.5		2	E200.7 07/10/08 18:43/eli-c
Sodium	48	mg/L	D	2		2	E200.7 07/10/08 18:43/eli-c
Sulfate	401	mg/L	D	3		50	E300.0 07/01/08 22:03/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1000	umhos/cm		5.0		1	A2510 B 07/02/08 11:39/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B 07/07/08 14:00/jmh
pH	7.38	s.u.		0.01		1	A4500-H B 07/02/08 10:52/tb
Sodium Adsorption Ratio (SAR)	0.93	unitless		0.10		1	Calculation 08/21/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	780	mg/L		5		1	A2540 C 07/02/08 16:37/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 07/10/08 18:43/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 07/22/08 01:09/eli-c
Barium	ND	mg/L		0.1		2	E200.7 07/10/08 18:43/eli-c
Boron	ND	mg/L		0.1		2	E200.7 07/10/08 18:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/22/08 01:09/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/10/08 18:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/22/08 01:09/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/10/08 18:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/22/08 01:09/eli-c
Manganese	0.14	mg/L		0.01		2	E200.7 07/10/08 18:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/22/08 01:09/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 07/10/08 18:43/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/10/08 18:43/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 16:30/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/22/08 01:09/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070005-001
 Client Sample ID: DewBurd GW16

Report Date: 08/21/08
 Collection Date: 06/30/08 13:45
 Date Received: 07/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/22/08 01:09/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 07/22/08 01:09/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/10/08 18:43/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7 07/10/08 18:43/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/21/08 12:50/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/19/08 13:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	28.3	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Alpha precision (±)	3.5	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Alpha MDC	2.9	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Beta	19.3	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Gross Beta MDC	3.1	pCi/L				1	E900.0 07/26/08 03:40/eli-c
Lead 210	2.0	pCi/L	U			1	E909.0M 07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	6.4	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0 07/22/08 11:26/eli-c
Gross Gamma	760	pCi/L		20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.4	pCi/L	U			1	E909.0M 07/17/08 09:30/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M 07/17/08 09:30/eli-c
Lead 210 MDC	10.6	pCi/L				1	E909.0M 07/17/08 09:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0 07/23/08 22:55/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070005-001
Client Sample ID: DewBurd GW16

Report Date: 08/21/08
Collection Date: 06/30/08 13:45
Date Received: 07/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/23/08 22:55/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	07/23/08 22:55/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/21/08 15:32/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/21/08 15:32/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	3150	pCi/L		100		1	D5072-92	07/08/08 05:45/eli-c
Radon 222 precision (±)	128	pCi/L				1	D5072-92	07/08/08 05:45/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	07/08/08 12:35/eli-c
Arsenic	ND	mg/L	D	0.002		10	E200.8	07/08/08 12:35/eli-c
Barium	ND	mg/L		0.1		10	E200.8	07/08/08 12:35/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	07/21/08 14:24/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/09/08 03:57/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/08/08 12:35/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	07/08/08 12:35/eli-c
Copper	ND	mg/L		0.01		10	E200.8	07/08/08 12:35/eli-c
Iron	0.26	mg/L		0.03		2	E200.7	07/09/08 03:57/eli-c
Lead	ND	mg/L	D	0.003		10	E200.8	07/08/08 12:35/eli-c
Manganese	0.13	mg/L		0.01		10	E200.8	07/08/08 12:35/eli-c
Mercury	ND	mg/L		0.0002		1	E245.1	07/11/08 09:11/eli-b
Molybdenum	ND	mg/L		0.1		10	E200.8	07/08/08 12:35/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	07/08/08 12:35/eli-c
Selenium	0.002	mg/L	D	0.002		10	E200.8	07/08/08 12:35/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/08/08 12:35/eli-c
Strontium	2.7	mg/L		0.1		10	E200.8	07/08/08 12:35/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	07/08/08 12:35/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	07/08/08 12:35/eli-c
Zinc	ND	mg/L	D	0.03		10	E200.8	07/08/08 12:35/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.63	%				1	A1030 E	08/21/08 00:00/lkl
Anions	11.5	meq/L				1	A1030 E	08/21/08 00:00/lkl
Cations	12.6	meq/L				1	A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	743	mg/L				1	A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.04					1	A1030 E	08/21/08 00:00/lkl

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070005-002
 Client Sample ID: DewBurd GW688

Report Date: 08/21/08
 Collection Date: 06/30/08 18:39
 Date Received: 07/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	136	mg/L		5		1	A2320 B 07/03/08 12:36/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/03/08 12:36/mb
Bicarbonate as HCO3	156	mg/L		5		1	A2320 B 07/03/08 12:36/mb
Calcium	40.4	mg/L		0.5		2	E200.7 07/10/08 18:47/eli-c
Chloride	11	mg/L		1		1	E300.0 07/01/08 22:52/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 07/01/08 22:52/jmh
Magnesium	19.2	mg/L		0.5		2	E200.7 07/10/08 18:47/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 07/12/08 17:07/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/01/08 22:52/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/01/08 22:52/jmh
Potassium	12.9	mg/L		0.5		2	E200.7 07/10/08 18:47/eli-c
Silica	3.8	mg/L		0.5		2	E200.7 07/10/08 18:47/eli-c
Sodium	191	mg/L	D	2		2	E200.7 07/10/08 18:47/eli-c
Sulfate	407	mg/L	D	3		50	E300.0 07/01/08 22:36/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1140	umhos/cm		5.0		1	A2510 B 07/02/08 11:40/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B 07/07/08 14:00/jmh
pH	8.60	s.u.		0.01		1	A4500-H B 07/02/08 10:52/tb
Sodium Adsorption Ratio (SAR)	6.2	unitless		0.10		1	Calculation 08/21/08 17:06/ADM
Solids, Total Dissolved TDS @ 180 C	770	mg/L		5		1	A2540 C 07/02/08 16:38/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 07/10/08 18:47/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/22/08 01:16/eli-c
Barium	ND	mg/L		0.1		2	E200.7 07/10/08 18:47/eli-c
Boron	ND	mg/L		0.1		2	E200.7 07/10/08 18:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/22/08 01:16/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/10/08 18:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/22/08 01:16/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/10/08 18:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/22/08 01:16/eli-c
Manganese	0.02	mg/L		0.01		2	E200.7 07/10/08 18:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/22/08 01:16/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 07/10/08 18:47/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/10/08 18:47/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/19/08 16:36/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/22/08 01:16/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070005-002
 Client Sample ID: DewBurd GW688

Report Date: 08/21/08
 Collection Date: 06/30/08 18:39
 Date Received: 07/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/22/08 01:16/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	07/22/08 01:16/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	07/10/08 18:47/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/10/08 18:47/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	07/21/08 12:57/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/19/08 13:40/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/19/08 14:40/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	13.2	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Alpha precision (±)	2.8	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Alpha MDC	3.1	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Beta	16.5	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Beta precision (±)	3.0	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Gross Beta MDC	4.5	pCi/L					1	E900.0	07/26/08 03:40/eli-c
Lead 210	-0.1	pCi/L	U				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L					1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L					1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.40	pCi/L					1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	0.6	pCi/L					1	E903.0	08/06/08 18:41/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	07/22/08 11:26/eli-c
Gross Gamma	1000	pCi/L		20			1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	170	pCi/L					1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	-2.3	pCi/L	U				1	E909.0M	07/17/08 09:30/eli-c
Lead 210 precision (±)	6.0	pCi/L					1	E909.0M	07/17/08 09:30/eli-c
Lead 210 MDC	10.1	pCi/L					1	E909.0M	07/17/08 09:30/eli-c
Polonium 210	0.3	pCi/L	U	1.0			1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.38	pCi/L					1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.3	pCi/L	U				1	E903.0	07/23/08 22:55/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070005-002
 Client Sample ID: DewBurd GW688

Report Date: 08/21/08
 Collection Date: 06/30/08 18:39
 Date Received: 07/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		DF	Method	Analysis Date / By
					QCL				
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 22:55/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	07/23/08 22:55/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/21/08 15:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/21/08 15:33/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	426	pCi/L		100			1	D5072-92	07/08/08 05:45/eli-c
Radon 222 precision (±)	91.9	pCi/L					1	D5072-92	07/08/08 05:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 12:42/eli-c
Arsenic	0.003	mg/L	D	0.002			10	E200.8	07/08/08 12:42/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 12:42/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/21/08 14:38/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 04:01/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 12:42/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 12:42/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 12:42/eli-c
Iron	0.08	mg/L		0.03			2	E200.7	07/09/08 04:01/eli-c
Lead	ND	mg/L	D	0.003			10	E200.8	07/08/08 12:42/eli-c
Manganese	0.02	mg/L		0.01			10	E200.8	07/08/08 12:42/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:14/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 12:42/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 12:42/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/08/08 12:42/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 12:42/eli-c
Strontium	1.1	mg/L		0.1			10	E200.8	07/08/08 12:42/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 12:42/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	07/08/08 12:42/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 12:42/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.05	%					1	A1030 E	08/21/08 00:00/lkl
Anions	11.5	meq/L					1	A1030 E	08/21/08 00:00/lkl
Cations	12.3	meq/L					1	A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	774	mg/L					1	A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	0.990						1	A1030 E	08/21/08 00:00/lkl

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080703A-ALK-SEL-W		
Sample ID: LCS1_080703A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			Run: PH_COND1-R_080703A 07/03/08 11:24
Sample ID: MBLK1_080703A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080703A 07/03/08 11:25
Sample ID: R08070005-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 250	mg/L	5.0	108	80	120			Run: PH_COND1-R_080703A 07/03/08 12:37
Sample ID: R08070005-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 242	mg/L	5.0	100	80	120	3.3	10	Run: PH_COND1-R_080703A 07/03/08 12:41
Method: A2510 B							Batch: 080702_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080702 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080702B 07/02/08 11:33
Sample ID: LCS1-1_080702 Conductivity @ 25 C	Laboratory Control Sample 148	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080702B 07/02/08 11:33
Sample ID: LCS2-1_080702 Conductivity @ 25 C	Laboratory Control Sample 4960	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080702B 07/02/08 11:34
Sample ID: MBLK-1_080702 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080702B 07/02/08 11:37
Method: A2540 C							Batch: 080702A-SLDS-TDS-W		
Sample ID: LCS1_080702A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	108	90	110			Run: BAL-4-R_080702A 07/02/08 16:34
Sample ID: MBLK1_080702A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080702A 07/02/08 16:35
Sample ID: R08060475-001BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 560	mg/L	5.0	90	80	120			Run: BAL-4-R_080702A 07/02/08 16:36
Sample ID: R08060475-001BMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 570	mg/L	5.0	95	80	120	1.8	10	Run: BAL-4-R_080702A 07/02/08 16:36

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080707-ORP-ISE-W		
Sample ID: LCS Oxidation-Reduction Potential	Laboratory Control Sample					Run: PH_COND1-R_080707A		07/07/08 14:00	
	480	mV		100	95	105			
Sample ID: R08070005-001F Oxidation-Reduction Potential	Sample Duplicate					Run: PH_COND1-R_080707A		07/07/08 14:00	
	230	mV					1.5	10	
Method: A3114 B							Batch: C_SE3114-080719B		
Sample ID: MBLK Selenium-IV	Method Blank					Run: SUB-C104481		07/19/08 12:46	
	ND	mg/L	6E-05						
Sample ID: 288-106-2 Selenium-IV	Laboratory Control Sample					Run: SUB-C104481		07/19/08 12:48	
	0.055	mg/L	0.0010	110	90	110			
Sample ID: R08070005-001E Selenium-IV	Sample Matrix Spike					Run: SUB-C104481		07/19/08 13:36	
	0.052	mg/L	0.0010	103	85	115			
Sample ID: R08070005-001E Selenium-IV	Sample Matrix Spike Duplicate					Run: SUB-C104481		07/19/08 13:38	
	0.052	mg/L	0.0010	104	85	115	0.9	10	
Method: A3114 B							Batch: C_SE3114-080719D		
Sample ID: MBLK Selenium	Method Blank					Run: SUB-C104485		07/19/08 15:42	
	ND	mg/L	6E-05						
Sample ID: 288-106-2 Selenium	Laboratory Control Sample					Run: SUB-C104485		07/19/08 15:47	
	0.050	mg/L	0.0010	100	90	110			
Sample ID: R08070005-001E Selenium	Sample Matrix Spike					Run: SUB-C104485		07/19/08 16:32	
	0.055	mg/L	0.0010	110	85	115			
Sample ID: R08070005-001E Selenium	Sample Matrix Spike Duplicate					Run: SUB-C104485		07/19/08 16:34	
	0.055	mg/L	0.0010	109	85	115	0.6	10	
Method: A4500-H B							Batch: 080702_1_PH-W		
Sample ID: LCS_pH-1_080702 pH	Laboratory Control Sample					Run: PH_COND2-R_080702A		07/02/08 10:45	
	6.90	s.u.	0.010	101	98.55	101.45			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-07-12_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080712A			07/12/08 16:27
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	104	90	110			
						Run: TECHAA2-R_080712A			07/12/08 16:28
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	107	90	110			
						Run: TECHAA2-R_080712A			07/12/08 16:30
Sample ID: R08060509-005AMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	97	80	120			
						Run: TECHAA2-R_080712A			07/12/08 17:00
Sample ID: R08060509-005AMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.24	mg/L	0.10	96	80	120	0.4	10	
						Run: TECHAA2-R_080712A			07/12/08 17:01
Sample ID: R08070028-003BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.17	mg/L	0.10	67	80	120			S
						Run: TECHAA2-R_080712A			07/12/08 17:14
Sample ID: R08070028-003BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.20	mg/L	0.10	80	80	120	17	10	R
						Run: TECHAA2-R_080712A			07/12/08 17:15
Method: D5072-92							Batch: C_R104020		
Sample ID: R08070005-002G Radon 222	Sample Duplicate 362	pCi/L	100				16	30	
						Run: SUB-C104020			07/08/08 05:45
Sample ID: MB-R104020 Radon 222	Method Blank -20	pCi/L							
						Run: SUB-C104020			07/08/08 05:45
Sample ID: LCS-R104020 Radon 222	Laboratory Control Sample 303	pCi/L	100	100	70	130			
						Run: SUB-C104020			07/08/08 05:45

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19044		
Sample ID: MB-19044	Method Blank					Run: SUB-C103914		07/09/08 03:04	
Boron	0.04	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-19044	Laboratory Control Sample					Run: SUB-C103914		07/09/08 03:08	
Boron	0.535	mg/L	0.10	99	85	115			
Iron	2.57	mg/L	0.030	103	85	115			
Sample ID: R08070005-002D	Sample Matrix Spike					Run: SUB-C103914		07/09/08 04:05	
Boron	0.581	mg/L	0.10	105	70	130			
Iron	2.74	mg/L	0.030	106	70	130			
Sample ID: R08070005-002D	Sample Matrix Spike Duplicate					Run: SUB-C103914		07/09/08 04:09	
Boron	0.570	mg/L	0.10	103	70	130	1.8	20	
Iron	2.69	mg/L	0.030	104	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104056		
Sample ID: MB-080710A	Method Blank		Run: SUB-C104056			07/10/08 15:51			
Silica	0.04	mg/L	0.02						
Aluminum	0.009	mg/L	0.004						
Barium	0.02	mg/L	0.006						
Boron	0.03	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	0.003	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080710A	Laboratory Fortified Blank		Run: SUB-C104056			07/10/08 15:55			
Silica	0.46	mg/L	0.10	105	85	125			
Aluminum	1.0	mg/L	0.10	101	85	125			
Barium	1.0	mg/L	0.10	100	85	125			
Boron	1.1	mg/L	0.10	105	85	125			
Calcium	54	mg/L	0.50	108	85	125			
Chromium	1.0	mg/L	0.050	104	85	125			
Iron	1.1	mg/L	0.030	112	85	125			
Magnesium	54	mg/L	0.50	108	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	1.0	mg/L	0.10	102	85	125			
Nickel	1.0	mg/L	0.050	102	85	125			
Potassium	46	mg/L	0.50	93	85	125			
Sodium	51	mg/L	0.77	101	85	125			
Vanadium	1.0	mg/L	0.10	105	85	125			
Zinc	1.0	mg/L	0.010	104	85	125			
Sample ID: C08061234-001BMS2	Sample Matrix Spike		Run: SUB-C104056			07/10/08 17:08			
Aluminum	2.18	mg/L	0.10	99	70	130			
Barium	2.06	mg/L	0.10	101	70	130			
Boron	4.65	mg/L	0.10	103	70	130			
Chromium	2.07	mg/L	0.050	104	70	130			
Iron	2.21	mg/L	0.030	108	70	130			
Manganese	2.06	mg/L	0.010	103	70	130			
Molybdenum	2.02	mg/L	0.10	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104056		
Sample ID: C08061234-001BMS2	Sample Matrix Spike		Run: SUB-C104056				07/10/08 17:08		
Nickel	2.03	mg/L	0.050	102	70	130			
Vanadium	2.05	mg/L	0.10	103	70	130			
Zinc	2.08	mg/L	0.010	104	70	130			
Calcium	107	mg/L	1.0	104	70	130			
Magnesium	105	mg/L	1.0	105	70	130			
Potassium	89.8	mg/L	1.0	87	70	130			
Silica	23.6	mg/L	0.10		70	130			A
Sodium	774	mg/L	1.5		70	130			A
Sample ID: C08061234-001BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C104056				07/10/08 17:12		
Aluminum	2.20	mg/L	0.10	100	70	130	1.0	20	
Barium	2.07	mg/L	0.10	102	70	130	0.5	20	
Boron	4.66	mg/L	0.10	103	70	130	0.1	20	
Chromium	2.08	mg/L	0.050	104	70	130	0.4	20	
Iron	2.21	mg/L	0.030	108	70	130	0.1	20	
Manganese	2.07	mg/L	0.010	103	70	130	0.5	20	
Molybdenum	2.04	mg/L	0.10	102	70	130	1.1	20	
Nickel	2.04	mg/L	0.050	102	70	130	0.3	20	
Vanadium	2.03	mg/L	0.10	102	70	130	0.8	20	
Zinc	2.10	mg/L	0.010	105	70	130	0.8	20	
Calcium	107	mg/L	1.0	104	70	130	0.4	20	
Magnesium	106	mg/L	1.0	106	70	130	1.0	20	
Potassium	91.0	mg/L	1.0	88	70	130	1.3	20	
Silica	23.5	mg/L	0.10		70	130	0.4	20	A
Sodium	780	mg/L	1.5		70	130	0.7	20	A
Sample ID: C08061228-001BMS2	Sample Matrix Spike		Run: SUB-C104056				07/10/08 19:20		
Aluminum	4.76	mg/L	0.10	94	70	130			
Barium	5.15	mg/L	0.10	101	70	130			
Boron	5.29	mg/L	0.10	101	70	130			
Chromium	4.98	mg/L	0.050	100	70	130			
Iron	5.11	mg/L	0.044	-51	70	130			S
Manganese	5.12	mg/L	0.010	99	70	130			
Molybdenum	4.98	mg/L	0.10	100	70	130			
Nickel	4.92	mg/L	0.050	98	70	130			
Vanadium	5.09	mg/L	0.10	102	70	130			
Zinc	5.04	mg/L	0.010	101	70	130			
Calcium	665	mg/L	1.0	99	70	130			
Magnesium	361	mg/L	1.0	100	70	130			
Potassium	260	mg/L	1.0	91	70	130			
Silica	15.7	mg/L	0.10	26	70	130			S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104056		
Sample ID: C08061228-001BMS2	Sample Matrix Spike		Run: SUB-C104056			07/10/08 19:20			
Sodium	335	mg/L	2.7	98	70	130			
Sample ID: C08061228-001BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C104056			07/10/08 19:24			
Aluminum	4.90	mg/L	0.10	97	70	130	2.7	20	
Barium	5.14	mg/L	0.10	101	70	130	0.1	20	
Boron	5.36	mg/L	0.10	102	70	130	1.2	20	
Chromium	5.02	mg/L	0.050	100	70	130	0.8	20	
Iron	5.22	mg/L	0.044	-49	70	130	2.2	20	S
Manganese	5.22	mg/L	0.010	101	70	130	1.9	20	
Molybdenum	5.01	mg/L	0.10	100	70	130	0.6	20	
Nickel	4.99	mg/L	0.050	100	70	130	1.5	20	
Vanadium	5.12	mg/L	0.10	102	70	130	0.5	20	
Zinc	5.01	mg/L	0.010	100	70	130	0.6	20	
Calcium	668	mg/L	1.0	100	70	130	0.4	20	
Magnesium	364	mg/L	1.0	101	70	130	1.0	20	
Potassium	261	mg/L	1.0	92	70	130	0.6	20	
Silica	15.9	mg/L	0.10	31	70	130	1.4	20	S
Sodium	341	mg/L	2.7	100	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: MB-19044	Method Blank		Run: SUB-C103886			07/08/08 11:07			
Antimony	0.0005	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	ND	mg/L	0.0001						
Lead	0.003	mg/L							
Manganese	0.0001	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	6E-05						
Selenium	0.0002	mg/L	0.0002						
Silver	6E-05	mg/L	5E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.03	mg/L	0.0003						
Sample ID: LCS3-19044	Laboratory Control Sample		Run: SUB-C103886			07/08/08 11:14			
Antimony	0.514	mg/L	0.050	103	85	115			
Arsenic	0.469	mg/L	0.0010	94	85	115			
Barium	0.495	mg/L	0.10	99	85	115			
Beryllium	0.229	mg/L	0.010	91	85	115			
Cadmium	0.235	mg/L	0.010	94	85	115			
Chromium	0.490	mg/L	0.050	97	85	115			
Copper	0.469	mg/L	0.010	94	85	115			
Lead	0.509	mg/L	0.050	101	85	115			
Manganese	2.53	mg/L	0.010	101	85	115			
Molybdenum	0.482	mg/L	0.10	96	85	115			
Nickel	0.473	mg/L	0.050	95	85	115			
Selenium	0.446	mg/L	0.0020	89	85	115			
Strontium	0.488	mg/L	0.10	98	85	115			
Thallium	0.485	mg/L	0.10	97	85	115			
Uranium	0.526	mg/L	0.00032	105	85	115			
Zinc	0.499	mg/L	0.010	95	85	115			
Sample ID: R08070005-002D	Sample Matrix Spike		Run: SUB-C103886			07/08/08 12:49			
Antimony	0.543	mg/L	0.050	109	70	130			
Arsenic	0.532	mg/L	0.0010	106	70	130			
Barium	0.566	mg/L	0.10	110	70	130			
Beryllium	0.227	mg/L	0.010	91	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: R08070005-002D	Sample Matrix Spike			Run: SUB-C103886			07/08/08 12:49		
Cadmium	0.262	mg/L	0.010	105	70	130			
Chromium	0.513	mg/L	0.050	101	70	130			
Copper	0.508	mg/L	0.010	102	70	130			
Lead	0.528	mg/L	0.050	105	70	130			
Manganese	2.65	mg/L	0.010	105	70	130			
Molybdenum	0.522	mg/L	0.10	104	70	130			
Nickel	0.512	mg/L	0.050	102	70	130			
Selenium	0.507	mg/L	0.0020	101	70	130			
Silver	0.0468	mg/L	0.010	94	70	130			
Strontium	1.72	mg/L	0.10	118	70	130			
Thallium	0.517	mg/L	0.10	103	70	130			
Uranium	0.537	mg/L	0.00032	107	70	130			
Zinc	0.497	mg/L	0.010	99	70	130			
Sample ID: R08070005-002D	Sample Matrix Spike Duplicate			Run: SUB-C103886			07/08/08 12:56		
Antimony	0.523	mg/L	0.050	105	70	130	3.7	20	
Arsenic	0.502	mg/L	0.0010	100	70	130	5.9	20	
Barium	0.536	mg/L	0.10	104	70	130	5.6	20	
Beryllium	0.221	mg/L	0.010	88	70	130	3.1	20	
Cadmium	0.250	mg/L	0.010	100	70	130	4.9	20	
Chromium	0.491	mg/L	0.050	97	70	130	4.5	20	
Copper	0.492	mg/L	0.010	98	70	130	3.3	20	
Lead	0.505	mg/L	0.050	101	70	130	4.3	20	
Manganese	2.56	mg/L	0.010	102	70	130	3.3	20	
Molybdenum	0.506	mg/L	0.10	101	70	130	3.2	20	
Nickel	0.490	mg/L	0.050	98	70	130	4.3	20	
Selenium	0.484	mg/L	0.0020	96	70	130	4.8	20	
Silver	0.0463	mg/L	0.010	93	70	130	1.1	20	
Strontium	1.63	mg/L	0.10	99	70	130	5.5	20	
Thallium	0.501	mg/L	0.10	100	70	130	3.3	20	
Uranium	0.524	mg/L	0.00032	105	70	130	2.3	20	
Zinc	0.476	mg/L	0.010	95	70	130	4.3	20	
Sample ID: R08070005-002D	Sample Matrix Spike			Run: SUB-C104617			07/21/08 15:12		
Antimony	0.553	mg/L	0.050	110	70	130			
Arsenic	0.521	mg/L	0.0010	104	70	130			
Barium	0.525	mg/L	0.10	102	70	130			
Beryllium	0.264	mg/L	0.010	106	70	130			
Cadmium	0.251	mg/L	0.010	100	70	130			
Chromium	0.493	mg/L	0.050	98	70	130			
Copper	0.493	mg/L	0.010	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: R08070005-002D	Sample Matrix Spike			Run: SUB-C104617			07/21/08 15:12		
Lead	0.528	mg/L	0.050	106	70	130			
Manganese	2.48	mg/L	0.010	99	70	130			
Molybdenum	0.539	mg/L	0.10	108	70	130			
Nickel	0.492	mg/L	0.050	98	70	130			
Selenium	0.504	mg/L	0.0010	101	70	130			
Silver	0.0476	mg/L	0.010	95	70	130			
Strontium	1.68	mg/L	0.10	112	70	130			
Thallium	0.521	mg/L	0.10	104	70	130			
Uranium	0.570	mg/L	0.00030	114	70	130			
Zinc	0.491	mg/L	0.010	98	70	130			
Sample ID: R08070005-002D	Sample Matrix Spike Duplicate			Run: SUB-C104617			07/21/08 15:18		
Antimony	0.562	mg/L	0.050	112	70	130	1.7	20	
Arsenic	0.511	mg/L	0.0010	101	70	130	2.0	20	
Barium	0.528	mg/L	0.10	103	70	130	0.7	20	
Beryllium	0.262	mg/L	0.010	105	70	130	0.7	20	
Cadmium	0.253	mg/L	0.010	101	70	130	1.1	20	
Chromium	0.491	mg/L	0.050	98	70	130	0.4	20	
Copper	0.476	mg/L	0.010	95	70	130	3.5	20	
Lead	0.520	mg/L	0.050	104	70	130	1.4	20	
Manganese	2.48	mg/L	0.010	99	70	130	0.0	20	
Molybdenum	0.548	mg/L	0.10	109	70	130	1.6	20	
Nickel	0.477	mg/L	0.050	95	70	130	3.0	20	
Selenium	0.485	mg/L	0.0010	97	70	130	3.7	20	
Silver	0.0474	mg/L	0.010	95	70	130	0.6	20	
Strontium	1.59	mg/L	0.10	94	70	130	5.3	20	
Thallium	0.532	mg/L	0.10	106	70	130	2.1	20	
Uranium	0.591	mg/L	0.00030	118	70	130	3.6	20	
Zinc	0.482	mg/L	0.010	96	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Analytical Run: SUB-C104609		
Sample ID: CCB	Continuing Calibration Blank						07/22/08 00:24		
Thorium 232	2.00E-05	mg/L	0.0010						
Sample ID: CCV	Continuing Calibration Verification Standard						07/22/08 00:30		
Thorium 232	0.0589	mg/L	0.0010	98	90	110			
Method: E200.8							Batch: C_R104609		
Sample ID: LRB	Method Blank		Run: SUB-C104609			07/21/08 16:56			
Arsenic	ND	mg/L	4E-05						
Cadmium	ND	mg/L	3E-06						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Mercury	8E-05	mg/L	1E-05						
Silver	9E-06	mg/L	7E-06						
Uranium	ND	mg/L	2E-06						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104609			07/21/08 17:02			
Arsenic	0.0503	mg/L	0.0010	101	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Copper	0.0506	mg/L	0.0010	101	85	115			
Lead	0.0494	mg/L	0.0010	99	85	115			
Mercury	0.00500	mg/L	0.0010	98	85	115			
Silver	0.0196	mg/L	0.0010	98	85	115			
Uranium	0.0483	mg/L	0.00030	97	85	115			
Sample ID: C08070162-002CMS4	Post Digestion Spike		Run: SUB-C104609			07/22/08 02:40			
Arsenic	0.0518	mg/L	0.0010	100	70	130			
Cadmium	0.0487	mg/L	0.010	97	70	130			
Copper	0.0501	mg/L	0.010	97	70	130			
Lead	0.0489	mg/L	0.050	98	70	130			
Mercury	0.00503	mg/L	0.0010	101	70	130			
Silver	0.0142	mg/L	0.010	71	70	130			
Thorium 232	0.0484	mg/L	0.0010	97	70	130			
Uranium	0.0571	mg/L	0.00030	98	70	130			
Sample ID: C08070162-002CMS4	Post Digestion Spike Duplicate		Run: SUB-C104609			07/22/08 02:47			
Arsenic	0.0561	mg/L	0.0010	108	70	130	8.1	20	
Cadmium	0.0527	mg/L	0.010	105	70	130	7.9	20	
Copper	0.0550	mg/L	0.010	107	70	130	9.3	20	
Lead	0.0532	mg/L	0.050	106	70	130	8.4	20	
Mercury	0.00548	mg/L	0.0010	110	70	130	8.6	20	
Silver	0.0143	mg/L	0.010	72	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104609		
Sample ID: C08070162-002CMSD4	Post Digestion Spike Duplicate				Run: SUB-C104609			07/22/08 02:47	
Thorium 232	0.0529	mg/L	0.0010	106	70	130	8.8	20	
Uranium	0.0613	mg/L	0.00030	106	70	130	7.0	20	
Method: E245.1							Batch: B_33449		
Sample ID: MB-33449	Method Blank				Run: SUB-B113878			07/11/08 08:53	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33449	Laboratory Fortified Blank				Run: SUB-B113878			07/11/08 08:55	
Mercury	0.0019	mg/L	0.0010	94	85	115			
Sample ID: B08070392-001HMS	Sample Matrix Spike				Run: SUB-B113878			07/11/08 09:00	
Mercury	0.0020	mg/L	0.0010	99	70	130			
Sample ID: B08070392-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-B113878			07/11/08 09:02	
Mercury	0.0019	mg/L	0.0010	97	70	130	2.1	30	
Sample ID: B08070443-001DMS	Sample Matrix Spike				Run: SUB-B113878			07/11/08 09:23	
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: B08070443-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-B113878			07/11/08 09:26	
Mercury	0.0018	mg/L	0.0010	92	70	130	2.7	30	
Method: E245.1							Analytical Run: SUB-B113878		
Sample ID: QCS	Initial Calibration Verification Standard							07/11/08 07:20	
Mercury	0.0020	mg/L	0.0010	98	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35797		
Sample ID: LFB0807011754-3	Laboratory Fortified Blank			Run: DIONEX_080701A			07/01/08 16:34		
Chloride	4.69	mg/L	0.50	94	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.43	mg/L	0.10	97	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: LFB0807011754-4	Laboratory Fortified Blank			Run: DIONEX_080701A			07/01/08 16:51		
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.88	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: R08060507-001AMS	Sample Matrix Spike			Run: DIONEX_080701A			07/01/08 20:41		
Chloride	15.6	mg/L	0.50	84	80	120			
Fluoride	2.21	mg/L	0.10	93	80	120			
Nitrogen, Nitrate as N	2.54	mg/L	0.10	93	80	120			
Nitrogen, Nitrite as N	2.52	mg/L	0.10	101	80	120			
Sulfate	62.8	mg/L	1.0	71	80	120			S
Sample ID: R08060507-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080701A			07/01/08 20:57		
Chloride	15.3	mg/L	0.50	77	80	120	2.2	10	S
Fluoride	2.09	mg/L	0.10	87	80	120	5.6	10	
Nitrogen, Nitrate as N	2.37	mg/L	0.10	86	80	120	6.9	10	
Nitrogen, Nitrite as N	2.35	mg/L	0.10	94	80	120	7.0	10	
Sulfate	62.2	mg/L	1.0	67	80	120	0.8	10	S
Sample ID: R08060417-007AMS	Sample Matrix Spike			Run: DIONEX_080701A			07/01/08 23:58		
Chloride	54.2	mg/L	1.1	87	80	120			
Fluoride	18.6	mg/L	0.11	86	80	120			
Nitrogen, Nitrate as N	23.7	mg/L	0.25	90	80	120			
Nitrogen, Nitrite as N	24.7	mg/L	0.58	99	80	120			
Sulfate	608	mg/L	1.0	74	80	120			S
Sample ID: R08060417-007AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080701A			07/02/08 00:14		
Chloride	53.6	mg/L	1.1	86	80	120	1.1	10	
Fluoride	18.0	mg/L	0.11	83	80	120	2.8	10	
Nitrogen, Nitrate as N	23.0	mg/L	0.25	87	80	120	2.9	10	
Nitrogen, Nitrite as N	24.0	mg/L	0.58	96	80	120	2.8	10	
Sulfate	607	mg/L	1.0	73	80	120	0.2	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0485		
Sample ID: MB-GrAB-0485	Method Blank				Run: SUB-C104921			07/26/08 03:40	
Gross Alpha	2	pCi/L							
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0485	Laboratory Control Sample				Run: SUB-C104921			07/26/08 03:40	
Gross Alpha	120	pCi/L	87		70	130			
Sample ID: Cs137-GrAB-0485	Laboratory Control Sample				Run: SUB-C104921			07/26/08 03:41	
Gross Beta	100	pCi/L	108		70	130			
Sample ID: C08061318-001DMS	Sample Matrix Spike				Run: SUB-C104921			07/26/08 21:24	
Gross Alpha	168	pCi/L	119		70	130			
Sample ID: C08061318-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104921			07/26/08 21:24	
Gross Alpha	148	pCi/L	105		70	130	12	16.3	
Sample ID: C08061318-001DMS	Sample Matrix Spike				Run: SUB-C104921			07/26/08 21:25	
Gross Beta	95.8	pCi/L	100		70	130			
Sample ID: C08061318-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104921			07/26/08 21:25	
Gross Beta	98.1	pCi/L	102		70	130	2.3	16	
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample				Run: SUB-C104840			07/17/08 13:12	
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840	Method Blank				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	ND	pCi/L							U
Sample ID: C08070215-007HDUP	Sample Duplicate				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	1000	pCi/L	20				8.7	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_19031		
Sample ID: C08070134-001EMS Radium 226	Sample Matrix Spike 81	pCi/L		104	70	130			07/23/08 21:14
Sample ID: C08070134-001EMSD Radium 226	Sample Matrix Spike Duplicate 79	pCi/L		102	70	130	2.3	24.5	07/23/08 21:14
Sample ID: MB-19031 Radium 226	Method Blank -0.6	pCi/L							07/23/08 22:55 U
Sample ID: LCS-19031 Radium 226	Laboratory Control Sample 15	pCi/L		97	70	130			07/23/08 22:55
Method: E903.0							Batch: C_RA226-2956		
Sample ID: C08070219-001AMS Radium 226	Sample Matrix Spike 17	pCi/L		97	70	130			08/06/08 21:37
Sample ID: C08070219-001AMSD Radium 226	Sample Matrix Spike Duplicate 20	pCi/L		118	70	130	18	25.2	08/06/08 21:37
Sample ID: MB-RA226-2956 Radium 226	Method Blank -0.1	pCi/L							08/06/08 23:12 U
Sample ID: LCS-RA226-2956 Radium 226	Laboratory Control Sample 8.2	pCi/L		105	70	130			08/06/08 23:12
Method: E907.0							Batch: C_19031		
Sample ID: C08070118-001AMS Thorium 230	Sample Matrix Spike 103	pCi/Filter	0.20	112	70	130			07/21/08 15:28
Sample ID: C08070118-001AMSD Thorium 230	Sample Matrix Spike Duplicate 90.4	pCi/Filter	0.20	99	70	130	13	30	07/21/08 15:30
Sample ID: LCS-19031 Thorium 230	Laboratory Control Sample 51.6	pCi/L	0.20	104	70	130			07/21/08 15:33
Sample ID: MB-19031 Thorium 230	Method Blank 0.3	pCi/L							07/18/08 12:39 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0571		
Sample ID: LCS-RA-TH-ISO-0571 Thorium 230	Laboratory Control Sample 6.31 pCi/L		0.20	103	70	130			07/21/08 21:24
Run: SUB-C104913									
Sample ID: C08061333-002HMS Thorium 230	Sample Matrix Spike 15.3 pCi/L		0.20	94	70	130			07/21/08 21:24
Run: SUB-C104913									
Sample ID: C08061333-002HMSD Thorium 230	Sample Matrix Spike Duplicate 16.6 pCi/L		0.20	103	70	130	8.4	30	07/21/08 21:24
Run: SUB-C104913									
Sample ID: MB-RA-TH-ISO-0571 Thorium 230	Method Blank 0.03 pCi/L								07/23/08 22:41 U
Run: SUB-C104913									
Method: E909.0M							Batch: C_R105519		
Sample ID: MB-R105519 Lead 210	Method Blank -4 pCi/L								07/17/08 09:30 U
Run: SUB-C105519									
Sample ID: LCS-R105519 Lead 210	Laboratory Control Sample 98 pCi/L			86	70	130			07/17/08 09:30
Run: SUB-C105519									
Sample ID: C08070206-002AMS Lead 210	Sample Matrix Spike 1020 pCi/Filter			81	70	130			07/17/08 09:30
Run: SUB-C105519									
Sample ID: C08070206-002AMSD Lead 210	Sample Matrix Spike Duplicate 1350 pCi/Filter			110	70	130	28	30	07/17/08 09:30
Run: SUB-C105519									
Method: E909.0M							Batch: C_R105847		
Sample ID: C08070547-001HMS Lead 210	Sample Matrix Spike 560 pCi/L			91	70	130			07/24/08 08:45
Run: SUB-C105847									
Sample ID: C08070547-001HMSD Lead 210	Sample Matrix Spike Duplicate 590 pCi/L			96	70	130	5.4	30	07/24/08 08:45
Run: SUB-C105847									
Sample ID: MB-R105847 Lead 210	Method Blank 5 pCi/L								07/24/08 08:45 U
Run: SUB-C105847									
Sample ID: LCS-R105847 Lead 210	Laboratory Control Sample 130 pCi/L			106	70	130			07/24/08 08:45
Run: SUB-C105847									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 08/21/08
 Work Order: R08070005

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R104910		
Sample ID: C08070215-001HMS	Sample Matrix Spike				Run: SUB-C104910		07/14/08 17:45		
Polonium 210	57	pCi/L	1.0	66	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the RPD for the MS MSD pair is acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08070215-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104910		07/14/08 17:45		
Polonium 210	59	pCi/L	1.0	68	70	130	3.6	30	S
- Spike response is outside of the acceptance range for this analysis. Since the RPD for the MS MSD pair is acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: LCS-R104910	Laboratory Control Sample				Run: SUB-C104910		07/14/08 17:45		
Polonium 210	69	pCi/L	1.0	159	70	130			S
- LCS response is outside of the acceptance range for this analysis.									
Sample ID: MB-R104910	Method Blank				Run: SUB-C104910		07/14/08 17:45		
Polonium 210	ND	pCi/L							U
Method: RMO-3008							Batch: C_R106180		
Sample ID: C08070215-001IMS	Sample Matrix Spike				Run: SUB-C106180		08/18/08 17:00		
Polonium 210	19	pCi/L	1.0	94	70	130			
Sample ID: C08070215-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C106180		08/18/08 17:00		
Polonium 210	23	pCi/L	1.0	114	70	130	19	30	
Sample ID: LCS-19031	Laboratory Control Sample				Run: SUB-C106180		08/18/08 17:00		
Polonium 210	95	pCi/L	1.0	117	70	130			
Sample ID: MB-19031	Method Blank				Run: SUB-C106180		08/18/08 17:00		
Polonium 210	ND	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. RiverTail Derry Burdock		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: RESPEC		Contact Name: Cory Foreman	Phone/Fax: 605-394-6400	Email: 605-394-6400	Sampler: (Please Print) Eric Keurte
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - EI must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	
1 Derry Burdock		6/30/08	13:45	W	
2 Derry Burdock		6/30/08	18:39	W	
3					
4					
5					
6					
7					
8					
9					
10					
Custody Record MUST be Signed		Relinquished by (print): Eric Keurte	Date/Time: 6/30/08 20:50	Signature: <i>[Signature]</i>	Received by (print): Eric Keurte
Sample Disposal: Return to Client:		Lab Disposal:	Received by (print): Eric Keurte	Date/Time: 6/30/08 20:50	Signature: <i>[Signature]</i>
In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.		Requested by Laboratory: Eric Keurte		Date/Time: 6/1/08 04:45	Signature: <i>[Signature]</i>
Requested by (print): Eric Keurte		Date/Time: 6/1/08 20:50	Signature: <i>[Signature]</i>	Requested by (print): Eric Keurte	Date/Time: 6/1/08 04:45
Requested by (print): Eric Keurte		Date/Time: 6/1/08 20:50	Signature: <i>[Signature]</i>	Requested by (print): Eric Keurte	Date/Time: 6/1/08 04:45

ANALYSIS REQUESTED
 H S U R
 SEE ATTACHED
 Normal Turnaround (TAT)
 H S U R
 Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page
 Comments:
All GW
 Daniel domestic set 27
 K0807005-01
 802

LABORATORY USE ONLY

Shipped by:
Cooler Dye:
Receipt Temp:
3.1 °C
On Ice: Yes No
Custody Seal: Y N
Inlet: Y N
Signature: Y N
Match: Y N



ANALYTICAL SUMMARY REPORT

September 09, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08070035 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 7 samples from RESPEC Inc on 7/2/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070035-001	DewBurd GW693	07/01/08 19:39	07/02/08	Aqueous	Metals by ICP/CPMS, Dissolved Metals by ICP/CPMS, Suspended Metals by ICP/CPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08070035-002	DewBurd GW691	07/01/08 19:17	07/02/08	Aqueous	Same As Above
R08070035-003	DewBurd GW49	07/01/08 18:26	07/02/08	Aqueous	Same As Above
R08070035-004	DewBurd GW687	07/01/08 18:02	07/02/08	Aqueous	Same As Above
R08070035-005	DewBurd GW681	07/01/08 16:54	07/02/08	Aqueous	Same As Above
R08070035-006	DewBurd GW689	07/01/08 16:17	07/02/08	Aqueous	Same As Above
R08070035-007	DewBurd GW685	07/01/08 15:48	07/02/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.



Date: 09-Sep-08

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070035

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08070215

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08070215



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-001
 Client Sample ID: DewBurd GW693

Report Date: 09/09/08
 Collection Date: 07/01/08 19:39
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	68	mg/L		5			1	A2320 B	07/03/08 12:50/mb
Carbonate as CO3	7	mg/L		5			1	A2320 B	07/03/08 12:50/mb
Bicarbonate as HCO3	68	mg/L		5			1	A2320 B	07/03/08 12:50/mb
Calcium	73.7	mg/L		0.5			2	E200.7	07/21/08 13:55/eli-c
Chloride	38	mg/L	D	2			20	E300.0	07/03/08 00:04/jmh
Fluoride	0.6	mg/L		0.1			1	E300.0	07/03/08 00:21/jmh
Magnesium	35.2	mg/L		0.5			2	E200.7	07/21/08 13:55/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1			1	A4500-NH3 G	07/12/08 17:23/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	07/03/08 00:21/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	07/03/08 00:21/jmh
Potassium	8.6	mg/L		0.5			2	E200.7	07/21/08 13:55/eli-c
Silica	5.0	mg/L		0.5			2	E200.7	07/21/08 13:55/eli-c
Sodium	380	mg/L	D	2			2	E200.7	07/21/08 13:55/eli-c
Sulfate	886	mg/L		1			20	E300.0	07/03/08 00:04/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1650	umhos/cm		5.0			1	A2510 B	07/02/08 11:45/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	07/07/08 14:00/jmh
pH	9.03	s.u.		0.01			1	A4500-H B	07/02/08 10:53/tb
Sodium Adsorption Ratio (SAR)	9.1	unitless		0.10			1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	1400	mg/L		5			1	A2540 C	07/02/08 16:38/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/21/08 13:55/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/23/08 16:55/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/21/08 13:55/eli-c
Boron	1.0	mg/L		0.1			2	E200.7	07/21/08 13:55/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/23/08 16:55/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/21/08 13:55/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/23/08 16:55/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	07/21/08 13:55/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/23/08 16:55/eli-c
Manganese	ND	mg/L		0.01			2	E200.7	07/21/08 13:55/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/23/08 16:55/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/21/08 13:55/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/21/08 13:55/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/28/08 15:32/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/25/08 14:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-001
 Client Sample ID: DewBurd GW693

Report Date: 09/09/08
 Collection Date: 07/01/08 19:39
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/23/08 16:55/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 07/23/08 16:55/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/21/08 13:55/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/21/08 13:55/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/24/08 14:03/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/28/08 13:19/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	2.8	pCi/L	U			1	E900.0 08/02/08 23:41/eli-c
Gross Alpha precision (±)	3.8	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha MDC	6.0	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta	2.7	pCi/L	U			1	E900.0 08/02/08 23:41/eli-c
Gross Beta precision (±)	4.0	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta MDC	6.6	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Lead 210	1.3	pCi/L	U			1	E909.0M 07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	0.6	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 08/03/08 18:40/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0 08/03/08 18:40/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1.3	pCi/L	U			1	E909.0M 07/22/08 11:00/eli-c
Lead 210 precision (±)	5.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0 07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-001
 Client Sample ID: DewBurd GW693

Report Date: 09/09/08
 Collection Date: 07/01/08 19:39
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/29/08 09:57/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:57/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	424	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	49.7	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 11:28/eli-c
Arsenic	ND	mg/L		0.001			10	E200.8	07/08/08 11:28/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 11:28/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/08/08 11:28/eli-c
Boron	1.1	mg/L		0.1			2	E200.7	07/09/08 03:12/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 11:28/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 11:28/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 11:28/eli-c
Iron	1.44	mg/L		0.03			2	E200.7	07/09/08 03:12/eli-c
Lead	ND	mg/L	D	0.003			10	E200.8	07/08/08 11:28/eli-c
Manganese	0.01	mg/L		0.01			10	E200.8	07/08/08 11:28/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:21/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:33/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 11:28/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 11:28/eli-c
Selenium	0.005	mg/L	D	0.002			10	E200.8	07/08/08 11:28/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 11:28/eli-c
Strontium	2.1	mg/L		0.1			10	E200.8	07/08/08 11:28/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 11:28/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	07/08/08 11:28/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 11:28/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.47	%					1	A1030 E	09/05/08 00:00/jmh
Anions	20.9	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	23.3	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	1480	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980						1	A1030 E	09/05/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-002
 Client Sample ID: DewBurd GW691

Report Date: 09/09/08
 Collection Date: 07/01/08 19:17
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	1160	mg/L		5		1	A2320 B	07/03/08 12:59/mb
Carbonate as CO3	19	mg/L		5		1	A2320 B	07/03/08 12:59/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	07/03/08 12:59/mb
Calcium	251	mg/L		0.5		2	E200.7	07/21/08 14:07/eli-c
Chloride	113	mg/L	D	5		50	E300.0	07/03/08 00:37/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	07/03/08 00:54/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	07/21/08 14:07/eli-c
Nitrogen, Ammonia as N	1.2	mg/L		0.1		2	A4500-NH3 G	07/12/08 18:08/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/03/08 00:54/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/03/08 00:54/jmh
Potassium	16.7	mg/L		0.5		2	E200.7	07/21/08 14:07/eli-c
Silica	0.8	mg/L		0.5		2	E200.7	07/21/08 14:07/eli-c
Sodium	373	mg/L	D	2		2	E200.7	07/21/08 14:07/eli-c
Sulfate	159	mg/L	D	3		50	E300.0	07/03/08 00:37/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5360	umhos/cm		5.0		1	A2510 B	07/02/08 11:46/tb
Oxidation-Reduction Potential	24	mV				1	A2580 B	07/07/08 14:00/jmh
pH	12.4	s.u.		0.01		1	A4500-H B	07/02/08 10:54/tb
Sodium Adsorption Ratio (SAR)	6.5	unitless		0.10		1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	1500	mg/L		5		1	A2540 C	07/02/08 16:38/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/21/08 14:07/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/23/08 17:02/eli-c
Barium	0.5	mg/L		0.1		2	E200.7	07/21/08 14:07/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/21/08 14:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 14:45/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 14:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/23/08 17:02/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/21/08 14:07/eli-c
Lead	0.011	mg/L		0.001		1	E200.8	07/23/08 17:02/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	07/21/08 14:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 17:02/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 14:07/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 14:07/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 15:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 14:45/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-002
 Client Sample ID: DewBurd GW691

Report Date: 09/09/08
 Collection Date: 07/01/08 19:17
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	07/23/08 17:02/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/23/08 17:02/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/21/08 14:07/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	07/21/08 14:07/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/24/08 14:07/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/28/08 13:26/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	2.9	pCi/L	U			1	E900.0	08/02/08 23:41/eli-c
Gross Alpha precision (±)	6.1	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Alpha MDC	9.9	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Beta	15.4	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Beta precision (±)	5.7	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Gross Beta MDC	9.0	pCi/L				1	E900.0	08/02/08 23:41/eli-c
Lead 210	0.5	pCi/L	U			1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	1.2	pCi/L				1	E903.0	08/06/08 18:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/03/08 18:40/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/03/08 18:40/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	2.2	pCi/L	U			1	E909.0M	07/22/08 11:00/eli-c
Lead 210 precision (±)	5.9	pCi/L				1	E909.0M	07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L				1	E909.0M	07/22/08 11:00/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-002
 Client Sample ID: DewBurd GW691

Report Date: 09/09/08
 Collection Date: 07/01/08 19:17
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/29/08 09:57/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:57/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	119	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	45.7	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 11:34/eli-c
Arsenic	ND	mg/L	D	0.002			10	E200.8	07/08/08 11:34/eli-c
Barium	0.5	mg/L		0.1			10	E200.8	07/08/08 11:34/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/08/08 11:34/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 03:20/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 11:34/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 11:34/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 11:34/eli-c
Iron	0.10	mg/L		0.03			2	E200.7	07/09/08 03:20/eli-c
Lead	0.035	mg/L		0.001			10	E200.8	07/08/08 11:34/eli-c
Manganese	ND	mg/L		0.01			10	E200.8	07/08/08 11:34/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:28/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:36/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 11:34/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 11:34/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/08/08 11:34/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 11:34/eli-c
Strontium	5.3	mg/L		0.1			10	E200.8	07/08/08 11:34/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 11:34/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	07/08/08 11:34/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 11:34/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.590	%					1	A1030 E	09/05/08 00:00/jmh
Anions	29.6	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	29.3	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	1610	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	09/05/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 6 of 21
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-003
 Client Sample ID: DewBurd GW49

Report Date: 09/09/08
 Collection Date: 07/01/08 18:26
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	168	mg/L		5			1	A2320 B	07/03/08 13:03/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 13:03/mb
Bicarbonate as HCO3	205	mg/L		5			1	A2320 B	07/03/08 13:03/mb
Calcium	62.2	mg/L		0.5			2	E200.7	07/21/08 14:15/eli-c
Chloride	12	mg/L		1			1	E300.0	07/03/08 01:59/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	07/03/08 01:59/jmh
Magnesium	25.2	mg/L		0.5			2	E200.7	07/21/08 14:15/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	07/12/08 17:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	07/03/08 01:59/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	07/03/08 01:59/jmh
Potassium	10.4	mg/L		0.5			2	E200.7	07/21/08 14:15/eli-c
Silica	4.6	mg/L		0.5			2	E200.7	07/21/08 14:15/eli-c
Sodium	226	mg/L	D	2			2	E200.7	07/21/08 14:15/eli-c
Sulfate	465	mg/L		1			20	E300.0	07/03/08 01:10/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1200	umhos/cm		5.0			1	A2510 B	07/02/08 11:47/tb
Oxidation-Reduction Potential	160	mV					1	A2580 B	07/07/08 14:00/jmh
pH	7.91	s.u.		0.01			1	A4500-H B	07/02/08 10:57/tb
Sodium Adsorption Ratio (SAR)	6.1	unitless		0.10			1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5			1	A2540 C	07/02/08 16:38/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/21/08 14:15/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	07/23/08 17:09/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/21/08 14:15/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/21/08 14:15/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/23/08 17:09/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/21/08 14:15/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/23/08 17:09/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/21/08 14:15/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/23/08 17:09/eli-c
Manganese	0.14	mg/L		0.01			2	E200.7	07/21/08 14:15/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/23/08 17:09/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/21/08 14:15/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/21/08 14:15/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/28/08 15:41/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/25/08 14:52/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-003
 Client Sample ID: DewBurd GW49

Report Date: 09/09/08
 Collection Date: 07/01/08 18:26
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Thorium 232	ND	mg/L		0.005			1	E200.8	07/23/08 17:09/eli-c
Uranium	0.0011	mg/L		0.0003			1	E200.8	07/23/08 17:09/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	07/21/08 14:15/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/21/08 14:15/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	07/24/08 14:11/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/28/08 13:28/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	8.2	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Alpha precision (±)	3.1	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Alpha MDC	4.1	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Beta	7.1	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Beta precision (±)	2.8	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Gross Beta MDC	4.4	pCi/L					1	E900.0	08/02/08 23:41/eli-c
Lead 210	1.6	pCi/L	U				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L					1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L					1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.0	pCi/L	U	1.0			1	RMO-3008	07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.60	pCi/L					1	RMO-3008	07/14/08 17:45/eli-c
Radium 226	2.2	pCi/L					1	E903.0	08/06/08 18:41/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/03/08 18:40/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	08/03/08 18:40/eli-c
Gross Gamma	920	pCi/L		20			1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	140	pCi/L					1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	1.3	pCi/L	U				1	E909.0M	07/22/08 11:00/eli-c
Lead 210 precision (±)	5.9	pCi/L					1	E909.0M	07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L					1	E909.0M	07/22/08 11:00/eli-c
Polonium 210	-0.1	pCi/L	U	1.0			1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.26	pCi/L					1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	0.2	pCi/L	U				1	E903.0	07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-003
 Client Sample ID: DewBurd GW49

Report Date: 09/09/08
 Collection Date: 07/01/08 18:26
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	07/29/08 09:57/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:57/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	477	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	50.8	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 11:41/eli-c
Arsenic	ND	mg/L	D	0.002			10	E200.8	07/08/08 11:41/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 11:41/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/08/08 11:41/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 03:24/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 11:41/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 11:41/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 11:41/eli-c
Iron	0.14	mg/L		0.03			2	E200.7	07/09/08 03:24/eli-c
Lead	ND	mg/L	D	0.003			10	E200.8	07/08/08 11:41/eli-c
Manganese	0.12	mg/L		0.01			10	E200.8	07/08/08 11:41/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:30/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:38/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 11:41/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 11:41/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/08/08 11:41/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 11:41/eli-c
Strontium	1.1	mg/L		0.1			10	E200.8	07/08/08 11:41/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 11:41/eli-c
Uranium	0.0011	mg/L		0.0003			10	E200.8	07/08/08 11:41/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 11:41/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.51	%					1	A1030 E	09/05/08 00:00/jmh
Anions	13.4	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	15.3	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	915	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02						1	A1030 E	09/05/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-004
 Client Sample ID: DewBurd GW687

Report Date: 09/09/08
 Collection Date: 07/01/08 18:02
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	184	mg/L		5		1	A2320 B	07/03/08 13:07/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/03/08 13:07/mb
Bicarbonate as HCO3	224	mg/L		5		1	A2320 B	07/03/08 13:07/mb
Calcium	76.7	mg/L		0.5		2	E200.7	07/21/08 14:19/eli-c
Chloride	11	mg/L		1		1	E300.0	07/03/08 03:05/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	07/03/08 03:05/jmh
Magnesium	29.9	mg/L		0.5		2	E200.7	07/21/08 14:19/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/12/08 17:25/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/03/08 03:05/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/03/08 03:05/jmh
Potassium	10.7	mg/L		0.5		2	E200.7	07/21/08 14:19/eli-c
Silica	4.4	mg/L		0.5		2	E200.7	07/21/08 14:19/eli-c
Sodium	208	mg/L	D	2		2	E200.7	07/21/08 14:19/eli-c
Sulfate	458	mg/L		1		20	E300.0	07/03/08 02:16/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1230	umhos/cm		5.0		1	A2510 B	07/02/08 11:48/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	07/07/08 14:00/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	07/02/08 10:59/tb
Sodium Adsorption Ratio (SAR)	5.1	unitless		0.10		1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5		1	A2540 C	07/02/08 16:39/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/21/08 14:19/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/23/08 17:15/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/21/08 14:19/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/21/08 14:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/23/08 17:15/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 14:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/23/08 17:15/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/21/08 14:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 17:15/eli-c
Manganese	0.11	mg/L		0.01		2	E200.7	07/21/08 14:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 17:15/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 14:19/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 14:19/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 15:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 20:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-004
 Client Sample ID: DewBurd GW687

Report Date: 09/09/08
 Collection Date: 07/01/08 18:02
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/23/08 17:15/eli-c
Uranium	0.0040	mg/L		0.0003		1	E200.8 07/23/08 17:15/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/21/08 14:19/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/21/08 14:19/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/24/08 14:32/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/28/08 13:30/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	114	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha precision (±)	7.5	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha MDC	4.1	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta	33.5	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta precision (±)	2.6	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta MDC	3.4	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Lead 210	3.9	pCi/L	U			1	E909.0M 07/24/08 08:45/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	25.7	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Radium 226 precision (±)	1	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 08/03/08 18:40/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0 08/03/08 18:40/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-4.0	pCi/L	U			1	E909.0M 07/22/08 11:00/eli-c
Lead 210 precision (±)	5.8	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.48	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	0.3	pCi/L				1	E903.0 07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-004
 Client Sample ID: DewBurd GW687

Report Date: 09/09/08
 Collection Date: 07/01/08 18:02
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	07/29/08 09:57/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:57/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	3380	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	79.9	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 11:48/eli-c
Arsenic	ND	mg/L	D	0.002			10	E200.8	07/08/08 11:48/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 11:48/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/08/08 11:48/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 03:28/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 11:48/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 11:48/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 11:48/eli-c
Iron	0.11	mg/L		0.03			2	E200.7	07/09/08 03:28/eli-c
Lead	ND	mg/L	D	0.003			10	E200.8	07/08/08 11:48/eli-c
Manganese	0.10	mg/L		0.01			10	E200.8	07/08/08 11:48/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:33/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:40/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 11:48/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 11:48/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/08/08 11:48/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 11:48/eli-c
Strontium	1.4	mg/L		0.1			10	E200.8	07/08/08 11:48/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 11:48/eli-c
Uranium	0.0042	mg/L		0.0003			10	E200.8	07/08/08 11:48/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 11:48/eli-c
DATA QUALITY									
A/C Balance (± 5)	7.13	%					1	A1030 E	09/05/08 00:00/jmh
Anions	13.6	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	15.6	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	918	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02						1	A1030 E	09/05/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 12 of 21
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-005
 Client Sample ID: DewBurd GW681

Report Date: 09/09/08
 Collection Date: 07/01/08 16:54
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	174	mg/L		5			1	A2320 B	07/03/08 13:14/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	07/03/08 13:14/mb
Bicarbonate as HCO3	212	mg/L		5			1	A2320 B	07/03/08 13:14/mb
Calcium	67.4	mg/L		0.5			2	E200.7	07/21/08 14:23/eli-c
Chloride	16	mg/L		1			1	E300.0	07/03/08 03:38/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	07/03/08 03:38/jmh
Magnesium	25.8	mg/L		0.5			2	E200.7	07/21/08 14:23/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	07/12/08 17:27/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	07/03/08 03:38/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	07/03/08 03:38/jmh
Potassium	9.7	mg/L		0.5			2	E200.7	07/21/08 14:23/eli-c
Silica	4.4	mg/L		0.5			2	E200.7	07/21/08 14:23/eli-c
Sodium	218	mg/L	D	2			2	E200.7	07/21/08 14:23/eli-c
Sulfate	457	mg/L		1			20	E300.0	07/03/08 03:21/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1230	umhos/cm		5.0			1	A2510 B	07/02/08 11:49/tb
Oxidation-Reduction Potential	220	mV					1	A2580 B	07/07/08 14:00/jmh
pH	7.85	s.u.		0.01			1	A4500-H B	07/02/08 11:00/tb
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.10			1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5			1	A2540 C	07/02/08 16:39/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	07/21/08 14:23/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	07/23/08 17:22/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/21/08 14:23/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/21/08 14:23/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/23/08 17:22/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/21/08 14:23/eli-c
Copper	ND	mg/L		0.01			1	E200.8	07/23/08 17:22/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/21/08 14:23/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/23/08 17:22/eli-c
Manganese	0.09	mg/L		0.01			2	E200.7	07/21/08 14:23/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	07/23/08 17:22/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	07/21/08 14:23/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/21/08 14:23/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	07/28/08 15:45/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/25/08 21:02/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-005
 Client Sample ID: DewBurd GW681

Report Date: 09/09/08
 Collection Date: 07/01/08 16:54
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/23/08 17:22/eli-c
Uranium	0.0094	mg/L		0.0003		1	E200.8 07/23/08 17:22/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/21/08 14:23/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/21/08 14:23/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/24/08 14:36/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/28/08 13:32/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1180	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha precision (±)	23.0	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha MDC	4.1	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta	326	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta precision (±)	6.3	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta MDC	4.4	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Lead 210	30.0	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Lead 210 precision (±)	5.1	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	357	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Radium 226 precision (±)	3.9	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 08/03/08 18:40/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0 08/03/08 18:40/eli-c
Gross Gamma	1500	pCi/L		20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	200	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	5.3	pCi/L	U			1	E909.0M 07/22/08 11:00/eli-c
Lead 210 precision (±)	6.0	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Polonium 210	1.5	pCi/L		1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.71	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	1.3	pCi/L				1	E903.0 07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-005
 Client Sample ID: DewBurd GW681

Report Date: 09/09/08
 Collection Date: 07/01/08 16:54
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	07/23/08 12:43/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	07/29/08 09:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/29/08 09:58/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	281000	pCi/L		100		1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	609	pCi/L				1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	07/08/08 12:15/eli-c
Arsenic	ND	mg/L	D	0.002		10	E200.8	07/08/08 12:15/eli-c
Barium	ND	mg/L		0.1		10	E200.8	07/08/08 12:15/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	07/21/08 14:04/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/09/08 03:32/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/08/08 12:15/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	07/08/08 12:15/eli-c
Copper	ND	mg/L		0.01		10	E200.8	07/08/08 12:15/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	07/09/08 03:32/eli-c
Lead	0.006	mg/L	D	0.004		10	E200.8	07/08/08 12:15/eli-c
Manganese	0.08	mg/L		0.01		10	E200.8	07/08/08 12:15/eli-c
Mercury	ND	mg/L		0.0002		1	E245.1	07/11/08 09:35/eli-b
Mercury	ND	mg/L		0.0001		1	E245.1	07/09/08 12:43/eli-b
Molybdenum	ND	mg/L		0.1		10	E200.8	07/08/08 12:15/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	07/08/08 12:15/eli-c
Selenium	ND	mg/L	D	0.002		10	E200.8	07/08/08 12:15/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/08/08 12:15/eli-c
Strontium	1.2	mg/L		0.1		10	E200.8	07/08/08 12:15/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	07/08/08 12:15/eli-c
Uranium	0.0092	mg/L		0.0003		10	E200.8	07/08/08 12:15/eli-c
Zinc	0.09	mg/L	D	0.03		10	E200.8	07/08/08 12:15/eli-c
DATA QUALITY								
A/C Balance (± 5)	6.24	%				1	A1030 E	09/05/08 00:00/jmh
Anions	13.4	meq/L				1	A1030 E	09/05/08 00:00/jmh
Cations	15.2	meq/L				1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	910	mg/L				1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01					1	A1030 E	09/05/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 15 of 21
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-006
 Client Sample ID: DewBurd GW689

Report Date: 09/09/08
 Collection Date: 07/01/08 16:17
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B	07/03/08 13:16/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/03/08 13:16/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B	07/03/08 13:16/mb
Calcium	49.6	mg/L		0.5		2	E200.7	07/21/08 14:39/eli-c
Chloride	5	mg/L		1		1	E300.0	07/03/08 04:11/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/03/08 04:11/jmh
Magnesium	16.9	mg/L		0.5		2	E200.7	07/21/08 14:39/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/12/08 17:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/03/08 04:11/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/03/08 04:11/jmh
Potassium	7.8	mg/L		0.5		2	E200.7	07/21/08 14:39/eli-c
Silica	5.0	mg/L		0.5		2	E200.7	07/21/08 14:39/eli-c
Sodium	179	mg/L	D	2		2	E200.7	07/21/08 14:39/eli-c
Sulfate	354	mg/L		1		20	E300.0	07/03/08 03:54/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1010	umhos/cm		5.0		1	A2510 B	07/02/08 11:51/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	07/07/08 14:00/jmh
pH	7.84	s.u.		0.01		1	A4500-H B	07/02/08 11:01/tb
Sodium Adsorption Ratio (SAR)	5.6	unitless		0.10		1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	710	mg/L		5		1	A2540 C	07/02/08 16:39/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/21/08 14:39/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/25/08 21:09/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/21/08 14:39/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/21/08 14:39/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 21:09/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 14:39/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/25/08 21:09/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/21/08 14:39/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 17:29/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	07/21/08 14:39/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 17:29/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 14:39/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 14:39/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 15:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 21:09/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-006
 Client Sample ID: DewBurd GW689

Report Date: 09/09/08
 Collection Date: 07/01/08 16:17
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/23/08 17:29/eli-c
Uranium	0.0032	mg/L		0.0003		1	E200.8 07/23/08 17:29/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/21/08 14:39/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/21/08 14:39/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/24/08 14:40/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 07/28/08 13:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	33.4	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha precision (±)	3.9	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha MDC	3.2	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta	14.7	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta MDC	3.0	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Lead 210	1.1	pCi/L	U			1	E909.0M 07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	7.7	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0 08/04/08 00:44/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 08/04/08 00:44/eli-c
Gross Gamma	930	pCi/L		20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-3.9	pCi/L	U			1	E909.0M 07/22/08 11:00/eli-c
Lead 210 precision (±)	5.8	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.45	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	0.9	pCi/L				1	E903.0 07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-006
 Client Sample ID: DewBurd GW689

Report Date: 09/09/08
 Collection Date: 07/01/08 16:17
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	07/29/08 09:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:58/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1820	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	66.7	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 12:22/eli-c
Arsenic	ND	mg/L	D	0.002			10	E200.8	07/08/08 12:22/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 12:22/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/21/08 14:11/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 03:36/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 12:22/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 12:22/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 12:22/eli-c
Iron	2.23	mg/L		0.03			2	E200.7	07/09/08 03:36/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/08/08 12:22/eli-c
Manganese	0.09	mg/L		0.01			10	E200.8	07/08/08 12:22/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:37/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/09/08 12:45/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 12:22/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 12:22/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/08/08 12:22/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 12:22/eli-c
Strontium	0.9	mg/L		0.1			10	E200.8	07/08/08 12:22/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 12:22/eli-c
Uranium	0.0073	mg/L		0.0003			10	E200.8	07/08/08 12:22/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 12:22/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.87	%					1	A1030 E	09/05/08 00:00/jmh
Anions	10.6	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	11.9	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	717	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.990						1	A1030 E	09/05/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 18 of 21
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-007
 Client Sample ID: DewBurd GW685

Report Date: 09/09/08
 Collection Date: 07/01/08 15:48
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	162	mg/L		5		1	A2320 B	07/03/08 13:18/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/03/08 13:18/mb
Bicarbonate as HCO3	197	mg/L		5		1	A2320 B	07/03/08 13:18/mb
Calcium	71.9	mg/L		0.5		2	E200.7	07/21/08 14:43/eli-c
Chloride	11	mg/L		1		1	E300.0	07/03/08 05:16/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/03/08 05:16/jmh
Magnesium	26.2	mg/L		0.5		2	E200.7	07/21/08 14:43/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/12/08 17:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/03/08 05:16/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/03/08 05:16/jmh
Potassium	9.9	mg/L		0.5		2	E200.7	07/21/08 14:43/eli-c
Silica	4.5	mg/L		0.5		2	E200.7	07/21/08 14:43/eli-c
Sodium	206	mg/L	D	2		2	E200.7	07/21/08 14:43/eli-c
Sulfate	460	mg/L		1		20	E300.0	07/03/08 04:27/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1150	umhos/cm		5.0		1	A2510 B	07/02/08 11:53/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	07/07/08 14:00/jmh
pH	7.91	s.u.		0.01		1	A4500-H B	07/02/08 11:02/tb
Sodium Adsorption Ratio (SAR)	5.3	unitless		0.10		1	Calculation	09/05/08 14:46/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5		1	A2540 C	07/02/08 16:40/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/21/08 14:43/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	07/23/08 17:35/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/21/08 14:43/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/21/08 14:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 21:16/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 14:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/23/08 17:35/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/21/08 14:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 17:35/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7	07/21/08 14:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 17:35/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 14:43/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 14:43/eli-c
Selenium	0.003	mg/L		0.001		1	A3114 B	07/28/08 15:53/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 21:16/eli-c

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-007
 Client Sample ID: DewBurd GW685

Report Date: 09/09/08
 Collection Date: 07/01/08 15:48
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 07/23/08 17:35/eli-c
Uranium	0.0057	mg/L		0.0003		1	E200.8 07/23/08 17:35/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7 07/21/08 14:43/eli-c
Zinc	ND	mg/L		0.01		2	E200.7 07/21/08 14:43/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 07/24/08 14:44/eli-c
METALS - SPECIATED							
Selenium-IV	0.003	mg/L		0.001		1	A3114 B 07/28/08 13:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	23.8	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Alpha MDC	4.1	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta	12.0	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta precision (±)	2.9	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Gross Beta MDC	4.4	pCi/L				1	E900.0 08/02/08 23:41/eli-c
Lead 210	5.9	pCi/L	U			1	E909.0M 07/24/08 08:45/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M 07/24/08 08:45/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008 07/14/08 17:45/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008 07/14/08 17:45/eli-c
Radium 226	2.3	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 08/06/08 18:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 08/04/08 00:44/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 08/04/08 00:44/eli-c
Gross Gamma	940	pCi/L		20		1	E901.1 07/17/08 13:12/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1 07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1.1	pCi/L	U			1	E909.0M 07/22/08 11:00/eli-c
Lead 210 precision (±)	5.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Lead 210 MDC	9.9	pCi/L				1	E909.0M 07/22/08 11:00/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008 08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.48	pCi/L				1	RMO-3008 08/18/08 17:00/eli-c
Radium 226	0.3	pCi/L				1	E903.0 07/23/08 12:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070035-007
 Client Sample ID: DewBurd GW685

Report Date: 09/09/08
 Collection Date: 07/01/08 15:48
 Date Received: 07/02/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	07/23/08 12:43/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	07/29/08 09:57/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	07/29/08 09:57/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	9460	pCi/L		100			1	D5072-92	07/03/08 16:32/eli-c
Radon 222 precision (±)	121	pCi/L					1	D5072-92	07/03/08 16:32/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/08/08 12:29/eli-c
Arsenic	0.005	mg/L	D	0.002			10	E200.8	07/08/08 12:29/eli-c
Barium	ND	mg/L		0.1			10	E200.8	07/08/08 12:29/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/21/08 14:17/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/09/08 03:41/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/08/08 12:29/eli-c
Chromium	ND	mg/L		0.05			10	E200.8	07/08/08 12:29/eli-c
Copper	ND	mg/L		0.01			10	E200.8	07/08/08 12:29/eli-c
Iron	ND	mg/L		0.03			2	E200.7	07/09/08 03:41/eli-c
Lead	ND	mg/L	D	0.003			10	E200.8	07/08/08 12:29/eli-c
Manganese	0.08	mg/L		0.01			10	E200.8	07/08/08 12:29/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 09:40/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/11/08 10:01/eli-b
Molybdenum	ND	mg/L		0.1			10	E200.8	07/08/08 12:29/eli-c
Nickel	ND	mg/L		0.05			10	E200.8	07/08/08 12:29/eli-c
Selenium	0.005	mg/L	D	0.002			10	E200.8	07/08/08 12:29/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/08/08 12:29/eli-c
Strontium	1.2	mg/L		0.1			10	E200.8	07/08/08 12:29/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/08/08 12:29/eli-c
Uranium	0.0056	mg/L		0.0003			10	E200.8	07/08/08 12:29/eli-c
Zinc	ND	mg/L		0.01			10	E200.8	07/08/08 12:29/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.47	%					1	A1030 E	09/05/08 00:00/jmh
Anions	13.2	meq/L					1	A1030 E	09/05/08 00:00/jmh
Cations	15.0	meq/L					1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	896	mg/L					1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.04						1	A1030 E	09/05/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 21 of 21
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080703A-ALK-SEL-W	
Sample ID: LCS1_080703A Alkalinity, Total as CaCO3	Laboratory Control Sample 948	mg/L	5.0	95	90	110			Run: PH_COND1-R_080703A 07/03/08 11:24
Sample ID: MBLK1_080703A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080703A 07/03/08 11:25
Sample ID: R08070005-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 250	mg/L	5.0	108	80	120			Run: PH_COND1-R_080703A 07/03/08 12:37
Sample ID: R08070005-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 242	mg/L	5.0	100	80	120	3.3	10	Run: PH_COND1-R_080703A 07/03/08 12:41
Sample ID: R08070071-001AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 216	mg/L	5.0	113	80	120			Run: PH_COND1-R_080703A 07/03/08 13:25
Sample ID: R08070071-001AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 194	mg/L	5.0	92	80	120	11	10	Run: PH_COND1-R_080703A 07/03/08 14:07 R
Method: A2510 B								Batch: 080702_1_COND-PROBE-W	
Sample ID: LCS_COND-1_080702 Conductivity @ 25 C	Laboratory Control Sample 1400	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080702B 07/02/08 11:33
Sample ID: LCS1-1_080702 Conductivity @ 25 C	Laboratory Control Sample 148	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080702B 07/02/08 11:33
Sample ID: LCS2-1_080702 Conductivity @ 25 C	Laboratory Control Sample 4960	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080702B 07/02/08 11:34
Sample ID: MBLK-1_080702 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080702B 07/02/08 11:37
Sample ID: R08070035-006ADUP Conductivity @ 25 C	Sample Duplicate 1000	umhos/cm	5.0				1.0	10	Run: PH_COND2-R_080702B 07/02/08 11:52
Sample ID: R08070035-007ADUP Conductivity @ 25 C	Sample Duplicate 1140	umhos/cm	5.0				0.9	10	Run: PH_COND2-R_080702B 07/02/08 11:54

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080702A-SLDS-TDS-W		
Sample ID: LCS1_080702A	Laboratory Control Sample					Run: BAL-4-R_080702A			07/02/08 16:34
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110			
Sample ID: MBLK1_080702A	Method Blank					Run: BAL-4-R_080702A			07/02/08 16:35
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08060475-001BMS	Sample Matrix Spike					Run: BAL-4-R_080702A			07/02/08 16:36
Solids, Total Dissolved TDS @ 180 C	560	mg/L	5.0	90	80	120			
Sample ID: R08060475-001BMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080702A			07/02/08 16:36
Solids, Total Dissolved TDS @ 180 C	570	mg/L	5.0	95	80	120	1.8	10	
Sample ID: R08070035-006AMS	Sample Matrix Spike					Run: BAL-4-R_080702A			07/02/08 16:40
Solids, Total Dissolved TDS @ 180 C	920	mg/L	5.0	108	80	120			
Sample ID: R08070035-006AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080702A			07/02/08 16:40
Solids, Total Dissolved TDS @ 180 C	920	mg/L	5.0	107	80	120	0.2	10	
Method: A2580 B							Batch: 080707-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_080707A			07/07/08 14:00
Oxidation-Reduction Potential	480	mV		100	95	105			
Sample ID: R08070005-001F	Sample Duplicate					Run: PH_COND1-R_080707A			07/07/08 14:00
Oxidation-Reduction Potential	230	mV					1.5	10	
Method: A3114 B							Batch: C_SE3114-080728B		
Sample ID: MBLK	Method Blank					Run: SUB-C104944			07/28/08 13:15
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample					Run: SUB-C104944			07/28/08 13:17
Selenium-IV	0.054	mg/L	0.0010	108	90	110			
Sample ID: R08070035-001E	Sample Matrix Spike					Run: SUB-C104944			07/28/08 13:21
Selenium-IV	0.053	mg/L	0.0010	106	85	115			
Sample ID: R08070035-001E	Sample Matrix Spike Duplicate					Run: SUB-C104944			07/28/08 13:23
Selenium-IV	0.053	mg/L	0.0010	105	85	115	0.5	10	
Sample ID: C08070737-004EMS	Sample Matrix Spike					Run: SUB-C104944			07/28/08 13:51
Selenium-IV	0.050	mg/L	0.0010	99	85	115			
Sample ID: C08070737-004EMSD	Sample Matrix Spike Duplicate					Run: SUB-C104944			07/28/08 13:53
Selenium-IV	0.051	mg/L	0.0010	101	85	115	2.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080728C		
Sample ID: MBLK	Method Blank				Run: SUB-C104959			07/28/08 15:28	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104959			07/28/08 15:30	
Selenium	0.055	mg/L	0.0010	109	90	110			
Sample ID: R08070035-001E	Sample Matrix Spike				Run: SUB-C104959			07/28/08 15:34	
Selenium	0.052	mg/L	0.0010	104	85	115			
Sample ID: R08070035-001E	Sample Matrix Spike Duplicate				Run: SUB-C104959			07/28/08 15:37	
Selenium	0.050	mg/L	0.0010	100	85	115	3.4	10	
Sample ID: C08070737-004EMS	Sample Matrix Spike				Run: SUB-C104959			07/28/08 16:04	
Selenium	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08070737-004EMSD	Sample Matrix Spike Duplicate				Run: SUB-C104959			07/28/08 16:06	
Selenium	0.048	mg/L	0.0010	97	85	115	1.8	10	
Method: A4500-H B							Batch: 080702_1_PH-W		
Sample ID: LCS_pH-1_080702	Laboratory Control Sample				Run: PH_COND2-R_080702A			07/02/08 10:45	
pH	6.90	s.u.	0.010	101	98.55	101.45			
Sample ID: R08070035-002ADUP	Sample Duplicate				Run: PH_COND2-R_080702A			07/02/08 10:55	
pH	12.3	s.u.	0.010				0.6	1.25	
Sample ID: R08070035-007ADUP	Sample Duplicate				Run: PH_COND2-R_080702A			07/02/08 11:04	
pH	7.93	s.u.	0.010				0.3	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-07-12_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_080712A			07/12/08 16:27
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	104	90	110			
						Run: TECHAA2-R_080712A			07/12/08 16:28
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	107	90	110			
						Run: TECHAA2-R_080712A			07/12/08 16:30
Sample ID: R08070028-003BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.17	mg/L	0.10	67	80	120			
						Run: TECHAA2-R_080712A			07/12/08 17:14 S
Sample ID: R08070028-003BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.20	mg/L	0.10	80	80	120	17		
						Run: TECHAA2-R_080712A			07/12/08 17:15 R
Sample ID: R08070035-005BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.33	mg/L	0.10	104	80	120			
						Run: TECHAA2-R_080712A			07/12/08 17:28
Sample ID: R08070035-005BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.34	mg/L	0.10	105	80	120	0.9		
						Run: TECHAA2-R_080712A			07/12/08 17:29 10
Sample ID: R08070071-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.22	mg/L	0.10	88	80	120			
						Run: TECHAA2-R_080712A			07/12/08 18:11
Sample ID: R08070071-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.23	mg/L	0.10	93	80	120	4.9		
						Run: TECHAA2-R_080712A			07/12/08 18:12 10
Method: D5072-92							Batch: C_R103780		
Sample ID: R08070035-007G Radon 222	Sample Duplicate 9480	pCi/L	100				0.2		
						Run: SUB-C103780			07/03/08 16:32 30
Sample ID: MB-R103780 Radon 222	Method Blank 20	pCi/L							
						Run: SUB-C103780			07/03/08 16:32
Sample ID: LCS-R103780 Radon 222	Laboratory Control Sample 303	pCi/L	100	94	70	130			
						Run: SUB-C103780			07/03/08 16:32

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19044		
Sample ID: MB-19044	Method Blank				Run: SUB-C103914		07/09/08 03:04		
Boron	0.04	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-19044	Laboratory Control Sample				Run: SUB-C103914		07/09/08 03:08		
Boron	0.535	mg/L	0.10	99	85	115			
Iron	2.57	mg/L	0.030	103	85	115			
Sample ID: C08070216-002DMS3	Sample Matrix Spike				Run: SUB-C103914		07/09/08 04:05		
Boron	0.581	mg/L	0.10	105	70	130			
Iron	2.74	mg/L	0.030	106	70	130			
Sample ID: C08070216-002DMSD3	Sample Matrix Spike Duplicate				Run: SUB-C103914		07/09/08 04:09		
Boron	0.570	mg/L	0.10	103	70	130	1.8	20	
Iron	2.69	mg/L	0.030	104	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104583		
Sample ID: MB-080721A	Method Blank		Run: SUB-C104583			07/21/08 13:46			
Silica	0.05	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080721A	Laboratory Fortified Blank		Run: SUB-C104583			07/21/08 13:51			
Silica	0.48	mg/L	0.10	106	85	125			
Aluminum	0.96	mg/L	0.10	96	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.00	mg/L	0.10	100	85	125			
Calcium	55	mg/L	0.50	110	85	125			
Chromium	1.0	mg/L	0.050	101	85	125			
Iron	1.1	mg/L	0.030	107	85	125			
Magnesium	54	mg/L	0.50	108	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	1.00	mg/L	0.10	100	85	125			
Nickel	1.0	mg/L	0.050	100	85	125			
Potassium	48	mg/L	0.50	95	85	125			
Sodium	52	mg/L	0.77	103	85	125			
Vanadium	1.1	mg/L	0.10	108	85	125			
Zinc	1.0	mg/L	0.010	102	85	125			
Sample ID: R08070035-001C	Sample Matrix Spike		Run: SUB-C104583			07/21/08 13:59			
Aluminum	2.07	mg/L	0.10	103	70	130			
Barium	2.07	mg/L	0.10	103	70	130			
Boron	3.05	mg/L	0.10	100	70	130			
Chromium	2.18	mg/L	0.050	108	70	130			
Iron	2.70	mg/L	0.030	132	70	130			S
Manganese	2.10	mg/L	0.010	104	70	130			
Molybdenum	2.07	mg/L	0.10	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104583		
Sample ID: R08070035-001C	Sample Matrix Spike			Run: SUB-C104583			07/21/08 13:59		
Nickel	2.09	mg/L	0.050	105	70	130			
Vanadium	2.26	mg/L	0.10	112	70	130			
Zinc	2.09	mg/L	0.010	104	70	130			
Calcium	183	mg/L	1.0	110	70	130			
Magnesium	146	mg/L	1.0	111	70	130			
Potassium	100	mg/L	1.0	92	70	130			
Silica	5.78	mg/L	0.10		70	130			A
Sodium	474	mg/L	1.5	94	70	130			
Sample ID: R08070035-001C	Sample Matrix Spike Duplicate			Run: SUB-C104583			07/21/08 14:03		
Aluminum	2.12	mg/L	0.10	106	70	130	2.4	20	
Barium	2.07	mg/L	0.10	103	70	130	0.2	20	
Boron	3.14	mg/L	0.10	105	70	130	2.8	20	
Chromium	2.16	mg/L	0.050	107	70	130	1.1	20	
Iron	2.64	mg/L	0.030	129	70	130	2.0	20	
Manganese	2.16	mg/L	0.010	107	70	130	2.8	20	
Molybdenum	2.09	mg/L	0.10	103	70	130	1.2	20	
Nickel	2.33	mg/L	0.050	116	70	130	11	20	
Vanadium	2.33	mg/L	0.10	115	70	130	3.1	20	
Zinc	2.13	mg/L	0.010	106	70	130	2.1	20	
Calcium	185	mg/L	1.0	111	70	130	0.9	20	
Magnesium	149	mg/L	1.0	114	70	130	1.9	20	
Potassium	101	mg/L	1.0	92	70	130	0.7	20	
Silica	5.74	mg/L	0.10		70	130	0.6	20	A
Sodium	469	mg/L	1.5	90	70	130	1.0	20	
Sample ID: C08070559-001BMS2	Sample Matrix Spike			Run: SUB-C104583			07/21/08 15:03		
Aluminum	19.2	mg/L	0.10	96	70	130			
Barium	20.2	mg/L	0.12	98	70	130			
Boron	232	mg/L	0.17		70	130			A
Chromium	19.5	mg/L	0.050	98	70	130			
Iron	21.2	mg/L	0.095	106	70	130			
Manganese	21.7	mg/L	0.010	98	70	130			
Molybdenum	19.4	mg/L	0.10	97	70	130			
Nickel	19.4	mg/L	0.086	97	70	130			
Vanadium	21.2	mg/L	0.10	106	70	130			
Zinc	19.7	mg/L	0.044	99	70	130			
Calcium	6230	mg/L	2.1		70	130			A
Magnesium	2070	mg/L	1.0	102	70	130			
Potassium	947	mg/L	1.0	91	70	130			
Silica	18.2	mg/L	0.41	92	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104583		
Sample ID: C08070559-001BMS2	Sample Matrix Spike			Run: SUB-C104583			07/21/08 15:03		
Sodium	1030	mg/L	15	97	70	130			
Sample ID: C08070559-001BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C104583			07/21/08 15:08		
Aluminum	19.4	mg/L	0.10	97	70	130	1.1	20	
Barium	20.0	mg/L	0.12	97	70	130	0.8	20	
Boron	234	mg/L	0.17		70	130	0.8	20	A
Chromium	19.7	mg/L	0.050	98	70	130	0.6	20	
Iron	21.2	mg/L	0.095	106	70	130	0.1	20	
Manganese	21.7	mg/L	0.010	98	70	130	0.1	20	
Molybdenum	19.4	mg/L	0.10	97	70	130	0.4	20	
Nickel	19.6	mg/L	0.086	98	70	130	1.0	20	
Vanadium	21.3	mg/L	0.10	106	70	130	0.2	20	
Zinc	19.8	mg/L	0.044	99	70	130	0.3	20	
Calcium	6230	mg/L	2.1		70	130	0.1	20	A
Magnesium	2090	mg/L	1.0	104	70	130	1.0	20	
Potassium	939	mg/L	1.0	90	70	130	0.9	20	
Silica	18.1	mg/L	0.41	92	70	130	0.1	20	
Sodium	1020	mg/L	15	96	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: MB-19044	Method Blank		Run: SUB-C103886			07/08/08 11:07			
Antimony	0.0005	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	ND	mg/L	0.0001						
Lead	0.003	mg/L							
Manganese	0.0001	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	6E-05						
Selenium	0.0002	mg/L	0.0002						
Silver	6E-05	mg/L	5E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.03	mg/L	0.0003						
Sample ID: LCS3-19044	Laboratory Control Sample		Run: SUB-C103886			07/08/08 11:14			
Antimony	0.514	mg/L	0.050	103	85	115			
Arsenic	0.469	mg/L	0.0010	94	85	115			
Barium	0.495	mg/L	0.10	99	85	115			
Beryllium	0.229	mg/L	0.010	91	85	115			
Cadmium	0.235	mg/L	0.010	94	85	115			
Chromium	0.490	mg/L	0.050	97	85	115			
Copper	0.469	mg/L	0.010	94	85	115			
Lead	0.509	mg/L	0.050	101	85	115			
Manganese	2.53	mg/L	0.010	101	85	115			
Molybdenum	0.482	mg/L	0.10	96	85	115			
Nickel	0.473	mg/L	0.050	95	85	115			
Selenium	0.446	mg/L	0.0020	89	85	115			
Strontium	0.488	mg/L	0.10	98	85	115			
Thallium	0.485	mg/L	0.10	97	85	115			
Uranium	0.526	mg/L	0.00032	105	85	115			
Zinc	0.499	mg/L	0.010	95	85	115			
Sample ID: C08070216-002DMS3	Sample Matrix Spike		Run: SUB-C103886			07/08/08 12:49			
Antimony	0.543	mg/L	0.050	109	70	130			
Arsenic	0.532	mg/L	0.0010	106	70	130			
Barium	0.566	mg/L	0.10	110	70	130			
Beryllium	0.227	mg/L	0.010	91	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: C08070216-002DMS3	Sample Matrix Spike			Run: SUB-C103886			07/08/08 12:49		
Cadmium	0.262	mg/L	0.010	105	70	130			
Chromium	0.513	mg/L	0.050	101	70	130			
Copper	0.508	mg/L	0.010	102	70	130			
Lead	0.528	mg/L	0.050	105	70	130			
Manganese	2.65	mg/L	0.010	105	70	130			
Molybdenum	0.522	mg/L	0.10	104	70	130			
Nickel	0.512	mg/L	0.050	102	70	130			
Selenium	0.507	mg/L	0.0020	101	70	130			
Silver	0.0468	mg/L	0.010	94	70	130			
Strontium	1.72	mg/L	0.10	118	70	130			
Thallium	0.517	mg/L	0.10	103	70	130			
Uranium	0.537	mg/L	0.00032	107	70	130			
Zinc	0.497	mg/L	0.010	99	70	130			
Sample ID: C08070216-002DMSD3	Sample Matrix Spike Duplicate			Run: SUB-C103886			07/08/08 12:56		
Antimony	0.523	mg/L	0.050	105	70	130	3.7	20	
Arsenic	0.502	mg/L	0.0010	100	70	130	5.9	20	
Barium	0.536	mg/L	0.10	104	70	130	5.6	20	
Beryllium	0.221	mg/L	0.010	88	70	130	3.1	20	
Cadmium	0.250	mg/L	0.010	100	70	130	4.9	20	
Chromium	0.491	mg/L	0.050	97	70	130	4.5	20	
Copper	0.492	mg/L	0.010	98	70	130	3.3	20	
Lead	0.505	mg/L	0.050	101	70	130	4.3	20	
Manganese	2.56	mg/L	0.010	102	70	130	3.3	20	
Molybdenum	0.506	mg/L	0.10	101	70	130	3.2	20	
Nickel	0.490	mg/L	0.050	98	70	130	4.3	20	
Selenium	0.484	mg/L	0.0020	96	70	130	4.8	20	
Silver	0.0463	mg/L	0.010	93	70	130	1.1	20	
Strontium	1.63	mg/L	0.10	99	70	130	5.5	20	
Thallium	0.501	mg/L	0.10	100	70	130	3.3	20	
Uranium	0.524	mg/L	0.00032	105	70	130	2.3	20	
Zinc	0.476	mg/L	0.010	95	70	130	4.3	20	
Sample ID: C08070216-002DMS3	Sample Matrix Spike			Run: SUB-C104617			07/21/08 15:12		
Antimony	0.553	mg/L	0.050	110	70	130			
Arsenic	0.521	mg/L	0.0010	104	70	130			
Barium	0.525	mg/L	0.10	102	70	130			
Beryllium	0.264	mg/L	0.010	106	70	130			
Cadmium	0.251	mg/L	0.010	100	70	130			
Chromium	0.493	mg/L	0.050	98	70	130			
Copper	0.493	mg/L	0.010	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19044		
Sample ID: C08070216-002DMS3	Sample Matrix Spike			Run: SUB-C104617			07/21/08 15:12		
Lead	0.528	mg/L	0.050	106	70	130			
Manganese	2.48	mg/L	0.010	99	70	130			
Molybdenum	0.539	mg/L	0.10	108	70	130			
Nickel	0.492	mg/L	0.050	98	70	130			
Selenium	0.504	mg/L	0.0010	101	70	130			
Silver	0.0476	mg/L	0.010	95	70	130			
Strontium	1.68	mg/L	0.10	112	70	130			
Thallium	0.521	mg/L	0.10	104	70	130			
Uranium	0.570	mg/L	0.00030	114	70	130			
Zinc	0.491	mg/L	0.010	98	70	130			
Sample ID: C08070216-002DMSD3	Sample Matrix Spike Duplicate			Run: SUB-C104617			07/21/08 15:18		
Antimony	0.562	mg/L	0.050	112	70	130	1.7	20	
Arsenic	0.511	mg/L	0.0010	101	70	130	2.0	20	
Barium	0.528	mg/L	0.10	103	70	130	0.7	20	
Beryllium	0.262	mg/L	0.010	105	70	130	0.7	20	
Cadmium	0.253	mg/L	0.010	101	70	130	1.1	20	
Chromium	0.491	mg/L	0.050	98	70	130	0.4	20	
Copper	0.476	mg/L	0.010	95	70	130	3.5	20	
Lead	0.520	mg/L	0.050	104	70	130	1.4	20	
Manganese	2.48	mg/L	0.010	99	70	130	0.0	20	
Molybdenum	0.548	mg/L	0.10	109	70	130	1.6	20	
Nickel	0.477	mg/L	0.050	95	70	130	3.0	20	
Selenium	0.485	mg/L	0.0010	97	70	130	3.7	20	
Silver	0.0474	mg/L	0.010	95	70	130	0.6	20	
Strontium	1.59	mg/L	0.10	94	70	130	5.3	20	
Thallium	0.532	mg/L	0.10	106	70	130	2.1	20	
Uranium	0.591	mg/L	0.00030	118	70	130	3.6	20	
Zinc	0.482	mg/L	0.010	96	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19124
Sample ID: MB-19124	Method Blank								07/24/08 13:55
Uranium	ND	mg/L	2E-05						
Sample ID: LCS1-19124	Laboratory Control Sample								07/24/08 13:59
Uranium	0.0500	mg/L	0.00030	95	80	120			
Sample ID: R08070035-007I	Post Digestion Spike								07/24/08 14:48
Uranium	0.0115	mg/L	0.00030	92	70	130			
Sample ID: R08070035-007I	Post Digestion Spike Duplicate								07/24/08 14:53
Uranium	0.0102	mg/L	0.00030	81	70	130	13	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Analytical Run: SUB-C104758		
Sample ID: CCB	Continuing Calibration Blank								07/23/08 16:28
Thorium 232	1.00E-05	mg/L	0.0010						
Sample ID: CCV	Continuing Calibration Verification Standard								07/23/08 16:35
Thorium 232	0.0579	mg/L	0.0010	97	90	110			
Method: E200.8							Batch: C_R104758		
Sample ID: LRB	Method Blank			Run: SUB-C104758			07/23/08 12:27		
Arsenic	ND	mg/L	4E-05						
Cadmium	ND	mg/L	3E-06						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Mercury	ND	mg/L	1E-05						
Uranium	4E-06	mg/L	2E-06						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104758			07/23/08 12:34		
Arsenic	0.0497	mg/L	0.0010	99	85	115			
Cadmium	0.0506	mg/L	0.0010	101	85	115			
Copper	0.0512	mg/L	0.0010	102	85	115			
Lead	0.0492	mg/L	0.0010	98	85	115			
Mercury	0.00498	mg/L	0.0010	100	85	115			
Uranium	0.0488	mg/L	0.00030	98	85	115			
Sample ID: C08061324-001KMS4	Post Digestion Spike			Run: SUB-C104758			07/23/08 14:14		
Arsenic	0.0504	mg/L	0.0010	101	70	130			
Cadmium	0.0485	mg/L	0.010	97	70	130			
Copper	0.0498	mg/L	0.010	98	70	130			
Lead	0.0486	mg/L	0.050	97	70	130			
Mercury	0.00508	mg/L	0.0010	101	70	130			
Thorium 232	0.0484	mg/L	0.0010	97	70	130			
Uranium	0.276	mg/L	0.00030		70	130			A
Sample ID: C08061324-001KMSD4	Post Digestion Spike Duplicate			Run: SUB-C104758			07/23/08 14:21		
Arsenic	0.0526	mg/L	0.0010	105	70	130	4.3	20	
Cadmium	0.0505	mg/L	0.010	101	70	130	4.0	20	
Copper	0.0520	mg/L	0.010	102	70	130	4.2	20	
Lead	0.0498	mg/L	0.050	100	70	130	0.0	20	
Mercury	0.00545	mg/L	0.0010	109	70	130	7.1	20	
Thorium 232	0.0501	mg/L	0.0010	100	70	130	3.6	20	
Uranium	0.276	mg/L	0.00030		70	130	0.2	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: C08070151-010BMS4	Post Digestion Spike			Run: SUB-C104758			07/23/08 16:01		
Arsenic	0.0510	mg/L	0.0010	100	70	130			
Cadmium	0.0481	mg/L	0.010	95	70	130			
Copper	0.0494	mg/L	0.010	98	70	130			
Lead	0.0474	mg/L	0.050	95	70	130			
Mercury	0.00504	mg/L	0.0010	101	70	130			
Thorium 232	0.0463	mg/L	0.0010	93	70	130			
Uranium	0.0503	mg/L	0.00030	93	70	130			
Sample ID: C08070151-010BMSD4	Post Digestion Spike Duplicate			Run: SUB-C104758			07/23/08 16:08		
Arsenic	0.0517	mg/L	0.0010	101	70	130	1.3	20	
Cadmium	0.0493	mg/L	0.010	98	70	130	2.5	20	
Copper	0.0499	mg/L	0.010	99	70	130	1.1	20	
Lead	0.0478	mg/L	0.050	96	70	130	0.0	20	
Mercury	0.00522	mg/L	0.0010	104	70	130	3.6	20	
Thorium 232	0.0470	mg/L	0.0010	94	70	130	1.5	20	
Uranium	0.0509	mg/L	0.00030	95	70	130	1.1	20	
Sample ID: C08070217-001KMS4	Post Digestion Spike			Run: SUB-C104758			07/23/08 18:15		
Arsenic	0.0595	mg/L	0.0010	102	70	130			
Cadmium	0.0473	mg/L	0.010	95	70	130			
Copper	0.0487	mg/L	0.010	97	70	130			
Lead	0.0476	mg/L	0.050	95	70	130			
Mercury	0.00492	mg/L	0.0010	98	70	130			
Thorium 232	0.0474	mg/L	0.0010	95	70	130			
Uranium	0.212	mg/L	0.00030	104	70	130			
Sample ID: C08070217-001KMSD4	Post Digestion Spike Duplicate			Run: SUB-C104758			07/23/08 18:22		
Arsenic	0.0596	mg/L	0.0010	102	70	130	0.1	20	
Cadmium	0.0478	mg/L	0.010	96	70	130	1.0	20	
Copper	0.0491	mg/L	0.010	98	70	130	0.8	20	
Lead	0.0479	mg/L	0.050	96	70	130	0.0	20	
Mercury	0.00503	mg/L	0.0010	100	70	130	2.3	20	
Thorium 232	0.0477	mg/L	0.0010	95	70	130	0.8	20	
Uranium	0.212	mg/L	0.00030	104	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104854		
Sample ID: LRB	Method Blank			Run: SUB-C104854			07/25/08 12:43		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104854			07/25/08 12:50		
Arsenic	0.0511	mg/L	0.0010	102	85	115			
Cadmium	0.0522	mg/L	0.0010	104	85	115			
Copper	0.0509	mg/L	0.0010	102	85	115			
Silver	0.0206	mg/L	0.0010	103	85	115			
Sample ID: C08070230-001KMS4	Post Digestion Spike			Run: SUB-C104854			07/25/08 14:31		
Arsenic	0.0503	mg/L	0.0010	98	70	130			
Cadmium	0.0486	mg/L	0.010	97	70	130			
Copper	0.0462	mg/L	0.010	91	70	130			
Silver	0.0148	mg/L	0.010	74	70	130			
Sample ID: C08070230-001KMSD4	Post Digestion Spike Duplicate			Run: SUB-C104854			07/25/08 14:38		
Arsenic	0.0507	mg/L	0.0010	99	70	130	1.0	20	
Cadmium	0.0483	mg/L	0.010	97	70	130	0.7	20	
Copper	0.0463	mg/L	0.010	91	70	130	0.2	20	
Silver	0.0128	mg/L	0.010	64	70	130	15	20	S
Sample ID: C08070217-001KMS4	Post Digestion Spike			Run: SUB-C104854			07/25/08 21:29		
Arsenic	0.0589	mg/L	0.0010	100	70	130			
Cadmium	0.0468	mg/L	0.010	94	70	130			
Copper	0.0470	mg/L	0.010	94	70	130			
Silver	0.0109	mg/L	0.010	54	70	130			S
Sample ID: C08070217-001KMSD4	Post Digestion Spike Duplicate			Run: SUB-C104854			07/25/08 21:36		
Arsenic	0.0580	mg/L	0.0010	98	70	130	1.5	20	
Cadmium	0.0468	mg/L	0.010	94	70	130	0.0	20	
Copper	0.0463	mg/L	0.010	92	70	130	1.5	20	
Silver	0.0109	mg/L	0.010	55	70	130	0.5	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_33449		
Sample ID: MB-33449	Method Blank								Run: SUB-B113878 07/11/08 08:53
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33449	Laboratory Fortified Blank								Run: SUB-B113878 07/11/08 08:55
Mercury	0.0019	mg/L	0.0010	94	85	115			
Sample ID: B08070443-001DMS	Sample Matrix Spike								Run: SUB-B113878 07/11/08 09:23
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: B08070443-001DMSD	Sample Matrix Spike Duplicate								Run: SUB-B113878 07/11/08 09:26
Mercury	0.0018	mg/L	0.0010	92	70	130	2.7	30	
Method: E245.1							Analytical Run: SUB-B113878		
Sample ID: QCS	Initial Calibration Verification Standard								07/11/08 07:20
Mercury	0.0020	mg/L	0.0010	98	90	110			
Method: E245.1							Batch: C_B_33393		
Sample ID: MB-33393	Method Blank								Run: SUB-C104002 07/09/08 11:37
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33393	Laboratory Fortified Blank								Run: SUB-C104002 07/09/08 11:39
Mercury	0.0020	mg/L	0.0010	101	85	115			
Sample ID: B08070638-001BMS	Sample Matrix Spike								Run: SUB-C104002 07/09/08 12:07
Mercury	0.0022	mg/L	0.0010	108	70	130			
Sample ID: B08070638-001BMSD	Sample Matrix Spike Duplicate								Run: SUB-C104002 07/09/08 12:10
Mercury	0.0021	mg/L	0.0010	103	70	130	4.2	30	
Method: E245.1							Batch: C_B_33449		
Sample ID: MB-33449	Method Blank								Run: SUB-C104076 07/11/08 08:53
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33449	Laboratory Fortified Blank								Run: SUB-C104076 07/11/08 08:55
Mercury	0.0019	mg/L	0.0010	94	85	115			
Sample ID: B08070443-001DMS	Sample Matrix Spike								Run: SUB-C104076 07/11/08 09:23
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: B08070443-001DMSD	Sample Matrix Spike Duplicate								Run: SUB-C104076 07/11/08 09:26
Mercury	0.0018	mg/L	0.0010	92	70	130	2.7	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Analytical Run: SUB-C104076
Sample ID: QCS	Initial Calibration Verification Standard								07/11/08 07:20
Mercury	0.0020	mg/L	0.0010	98	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35848		
Sample ID: LFB0807024202-3	Laboratory Fortified Blank			Run: DIONEX_080702A			07/02/08 18:52		
Chloride	4.66	mg/L	0.50	93	90	110			
Fluoride	1.86	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.29	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0807024202-4	Laboratory Fortified Blank			Run: DIONEX_080702A			07/02/08 19:09		
Chloride	4.54	mg/L	0.50	91	90	110			
Fluoride	1.82	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.25	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.39	mg/L	0.10	96	90	110			
Sulfate	13.7	mg/L	1.0	91	90	110			
Sample ID: R08070031-001AMS	Sample Matrix Spike			Run: DIONEX_080702A			07/02/08 22:59		
Chloride	24.6	mg/L	0.50		80	120			A
Fluoride	2.11	mg/L	0.10	91	80	120			
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	80	120			
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	80	120			
Sulfate	36.8	mg/L	1.0	81	80	120			
Sample ID: R08070031-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080702A			07/02/08 23:15		
Chloride	24.5	mg/L	0.50		80	120	0.5	10	A
Fluoride	2.06	mg/L	0.10	89	80	120	2.4	10	
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	80	120	2.2	10	
Nitrogen, Nitrite as N	2.39	mg/L	0.10	96	80	120	2.5	10	
Sulfate	36.4	mg/L	1.0	79	80	120	0.9	10	S
Sample ID: R08070035-004AMS	Sample Matrix Spike			Run: DIONEX_080702A			07/03/08 02:32		
Chloride	105	mg/L	2.2	88	80	120			
Fluoride	35.9	mg/L	0.22	83	80	120			
Nitrogen, Nitrate as N	46.1	mg/L	0.50	92	80	120			
Nitrogen, Nitrite as N	48.9	mg/L	1.2	98	80	120			
Sulfate	715	mg/L	1.3	86	80	120			
Sample ID: R08070035-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080702A			07/03/08 02:49		
Chloride	103	mg/L	2.2	86	80	120	2.3	10	
Fluoride	35.3	mg/L	0.22	81	80	120	1.7	10	
Nitrogen, Nitrate as N	45.4	mg/L	0.50	91	80	120	1.6	10	
Nitrogen, Nitrite as N	48.0	mg/L	1.2	96	80	120	1.7	10	
Sulfate	713	mg/L	1.3	85	80	120	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35848		
Sample ID: R08070041-001CMS	Sample Matrix Spike				Run: DIONEX_080702A			07/03/08 05:49	
Chloride	177	mg/L	0.50		80	120			A
Fluoride	2.74	mg/L	0.10	90	80	120			
Nitrogen, Nitrate as N	2.75	mg/L	0.10	90	80	120			
Nitrogen, Nitrite as N	2.83	mg/L	0.10	93	80	120			
Sulfate	660	mg/L	1.0		80	120			A
Sample ID: R08070041-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080702A			07/03/08 06:06	
Chloride	177	mg/L	0.50		80	120	0.4	10	A
Fluoride	2.68	mg/L	0.10	87	80	120	2.2	10	
Nitrogen, Nitrate as N	2.68	mg/L	0.10	88	80	120	2.6	10	
Nitrogen, Nitrite as N	2.76	mg/L	0.10	90	80	120	2.5	10	
Sulfate	661	mg/L	1.0		80	120	0.2	10	A
Method: E900.0							Batch: C_GrAB-0492		
Sample ID: MB-GrAB-0492	Method Blank				Run: SUB-C105435			08/02/08 23:41	
Gross Alpha	0.2	pCi/L							U
Gross Beta	3	pCi/L							
Sample ID: UNAT-GrAB-0492	Laboratory Control Sample				Run: SUB-C105435			08/02/08 23:41	
Gross Alpha	140	pCi/L		102	70	130			
Sample ID: Cs137-GrAB-0492	Laboratory Control Sample				Run: SUB-C105435			08/02/08 23:41	
Gross Beta	96	pCi/L		98	70	130			
Sample ID: C08070267-002AMS	Sample Matrix Spike				Run: SUB-C105435			08/02/08 23:41	
Gross Alpha	173	pCi/L		124	70	130			
Sample ID: C08070267-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105435			08/02/08 23:41	
Gross Alpha	172	pCi/L		123	70	130	0.5	15.6	
Sample ID: C08070267-002AMS	Sample Matrix Spike				Run: SUB-C105435			08/03/08 17:55	
Gross Beta	83.0	pCi/L		90	70	130			
Sample ID: C08070267-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105435			08/03/08 17:55	
Gross Beta	92.5	pCi/L		100	70	130	11	16.1	

Qualifiers:

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ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/09/08
 Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample				Run: SUB-C104840			07/17/08 13:12	
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840	Method Blank				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	ND	pCi/L							U
Sample ID: R08070035-007H	Sample Duplicate				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	1000	pCi/L	20				8.7	30	
Method: E903.0							Batch: C_19124		
Sample ID: C08070377-005AMS	Sample Matrix Spike				Run: SUB-C104725			07/23/08 14:56	
Radium 226	74.6	pCi/Filter		94	70	130			
Sample ID: C08070377-005AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104725			07/23/08 14:56	
Radium 226	70.5	pCi/Filter		90	70	130	5.7	22	
Sample ID: LCS-19124	Laboratory Control Sample				Run: SUB-C104725			07/23/08 14:56	
Radium 226	14	pCi/L		83	70	130			
Sample ID: MB-19124	Method Blank				Run: SUB-C104725			07/23/08 14:56	
Radium 226	0.2	pCi/L							U
Method: E903.0							Batch: C_RA226-2956		
Sample ID: C08070219-001AMS	Sample Matrix Spike				Run: SUB-C105579			08/06/08 21:37	
Radium 226	17	pCi/L		97	70	130			
Sample ID: C08070219-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105579			08/06/08 21:37	
Radium 226	20	pCi/L		118	70	130	18	25.2	
Sample ID: MB-RA226-2956	Method Blank				Run: SUB-C105579			08/06/08 23:12	
Radium 226	-0.1	pCi/L							U
Sample ID: LCS-RA226-2956	Laboratory Control Sample				Run: SUB-C105579			08/06/08 23:12	
Radium 226	8.2	pCi/L		105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_19124		
Sample ID: C08070112-006AMS	Sample Matrix Spike				Run: SUB-C105076		07/28/08 20:10		
Thorium 230	177	pCi/Filter	0.20	106	70	130			
Sample ID: C08070112-006AMS2	Sample Matrix Spike				Run: SUB-C105076		07/29/08 09:57		
Thorium 230	87.3	pCi/Filter	0.20	94	70	130			
- Sample reported as a second spike, not an MSD, due to being spiked with a different amount of standard than the MS.									
Sample ID: LCS-19124	Laboratory Control Sample				Run: SUB-C105076		07/29/08 09:58		
Thorium 230	41.5	pCi/Filter	0.20	85	70	130			
Sample ID: MB-19124	Method Blank				Run: SUB-C105076		07/29/08 19:59		
Thorium 230	-0.1	pCi/Filter							U
Method: E907.0							Batch: C_RA-TH-ISO-0585		
Sample ID: LCS-RA-TH-ISO-0585	Laboratory Control Sample				Run: SUB-C105285		08/03/08 18:39		
Thorium 230	5.75	pCi/L	0.20	94	70	130			
Sample ID: R08070035-005H	Sample Matrix Spike				Run: SUB-C105285		08/04/08 00:44		
Thorium 230	14.5	pCi/L	0.20	88	70	130			
Sample ID: R08070035-005H	Sample Matrix Spike Duplicate				Run: SUB-C105285		08/04/08 00:44		
Thorium 230	17.2	pCi/L	0.20	105	70	130	17	30	
Sample ID: MB-RA-TH-ISO-0585	Method Blank				Run: SUB-C105285		08/04/08 00:44		
Thorium 230	0.05	pCi/L							U
Method: E909.0M							Batch: C_19124		
Sample ID: C08070112-003AMS	Sample Matrix Spike				Run: SUB-C105681		07/22/08 11:00		
Lead 210	2870	pCi/Filter		119	70	130			
Sample ID: C08070112-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105681		07/22/08 11:00		
Lead 210	2290	pCi/Filter		69	70	130	23	30	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: MB-R105681	Method Blank				Run: SUB-C105681		07/22/08 11:00		
Lead 210	2	pCi/L							U
Sample ID: LCS-R105681	Laboratory Control Sample				Run: SUB-C105681		07/22/08 11:00		
Lead 210	120	pCi/L		97	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R105847		
Sample ID: C08070547-001HMS	Sample Matrix Spike				Run: SUB-C105847				07/24/08 08:45
Lead 210	560	pCi/L	91	70	130				
Sample ID: C08070547-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C105847				07/24/08 08:45
Lead 210	590	pCi/L	96	70	130	5.4	30		
Sample ID: MB-R105847	Method Blank				Run: SUB-C105847				07/24/08 08:45
Lead 210	5	pCi/L							U
Sample ID: LCS-R105847	Laboratory Control Sample				Run: SUB-C105847				07/24/08 08:45
Lead 210	130	pCi/L	106	70	130				
Method: RMO-3008							Batch: C_R104910		
Sample ID: R08070035-001H	Sample Matrix Spike				Run: SUB-C104910				07/14/08 17:45
Polonium 210	57	pCi/L	1.0	66	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the RPD for the MS MSD pair is acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: R08070035-001H	Sample Matrix Spike Duplicate				Run: SUB-C104910				07/14/08 17:45
Polonium 210	59	pCi/L	1.0	68	70	130	3.6	30	S
- Spike response is outside of the acceptance range for this analysis. Since the RPD for the MS MSD pair is acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: LCS-R104910	Laboratory Control Sample				Run: SUB-C104910				07/14/08 17:45
Polonium 210	69	pCi/L	1.0	159	70	130			S
- LCS response is outside of the acceptance range for this analysis.									
Sample ID: MB-R104910	Method Blank				Run: SUB-C104910				07/14/08 17:45
Polonium 210	ND	pCi/L							U
Method: RMO-3008							Batch: C_R106180		
Sample ID: R08070035-001I	Sample Matrix Spike				Run: SUB-C106180				08/18/08 17:00
Polonium 210	19	pCi/L	1.0	94	70	130			
Sample ID: R08070035-001I	Sample Matrix Spike Duplicate				Run: SUB-C106180				08/18/08 17:00
Polonium 210	23	pCi/L	1.0	114	70	130	19	30	
Sample ID: LCS-19031	Laboratory Control Sample				Run: SUB-C106180				08/18/08 17:00
Polonium 210	95	pCi/L	1.0	117	70	130			
Sample ID: MB-19031	Method Blank				Run: SUB-C106180				08/18/08 17:00
Polonium 210	ND	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/09/08
Work Order: R08070035

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: SW7470A							Analytical Run: SUB-C104002			
Sample ID: QCS	Initial Calibration Verification Standard						07/09/08 07:00			
Mercury	0.0020	mg/L	0.0010	101	90	110				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: **RESER**
 Project Name, PWS, Permit, Etc: **Reserch Dairy Indus**
 State: **SD**
 EPA/State Compliance: Yes No

Report Mail Address: _____
 Contact Name: **Corr. Foreman Cresper.com**
 Phone/Fax: _____
 Email: _____
 Sampler: (Please Print) _____

Invoice Address: _____
 Invoice Contact & Phone: _____
 Purchase Order: _____
 Quote/Bottle Order: _____

Special Report/Formats - EI must be notified prior to sample submittal for the following:

- DW
- GSA
- POTW/WWTP
- State: _____
- Other: _____
- A2LA
- EDD/EDT (Electronic Data)
- Format: _____
- LEVEL IV
- NELAC

Number of Containers
 Sample Type: A W S V B O
 Air Water Soils/Solids
 Vegetation Bioassay Other

ANALYSIS REQUESTED

As per Quote

SEE ATTACHED
 Normal Turnaround (TAT)

R U S H

Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments: **All GW - Run next week**

Shipped by: _____
 Cooler Dry: _____

Receipt Temp: **7.8 °C**
 On Ice: Yes No

Custody Seal: Y N
 Inset: Y N
 Signature: Y N
 Mark: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time
1 Dev Bud GW 693	7/1/08	19:39	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
2 Dev Bud GW 691	7/1/08	19:17	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
3 Dev Bud GW 49	7/1/08	18:26	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
4 Dev Bud GW 687	7/1/08	18:02	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
5 Dev Bud GW 681	7/1/08	16:54	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
6 Dev Bud GW 689	7/1/08	16:17	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
7 Dev Bud GW 685	7/1/08	15:48	W	<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
8									
9									
10									

Requested By (print): **Eric Krantz**
 Requested By (print): **Eric Krantz**
 Date/Time: **7/1/08 09:00**
 Signature: *[Signature]*
 Signature: *[Signature]*

Received By (print): **Steve Fraiband**
 Received By (print): **Steve Fraiband**
 Date/Time: **7-2-08 9:10**
 Signature: *[Signature]*
 Signature: *[Signature]*

LABORATORY USE ONLY
 88670035-001

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This service is available upon request. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

September 12, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08070115 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 7 samples from RESPEC Inc on 7/8/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070115-001	DewBurd GW692	07/07/08 13:39	07/08/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08070115-002	DewBurd GW680	07/07/08 13:29	07/08/08	Aqueous	Same As Above
R08070115-003	DewBurd GW682	07/07/08 15:22	07/08/08	Aqueous	Same As Above
R08070115-004	DewBurd GW684	07/07/08 17:22	07/08/08	Aqueous	Same As Above
R08070115-005	DewBurd GW690	07/07/08 18:10	07/08/08	Aqueous	Same As Above
R08070115-006	DewBurd GW688	07/07/08 18:49	07/08/08	Aqueous	Same As Above
R08070115-007	DewBurd GW686	07/07/08 19:03	07/08/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.





CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070115

Date: 12-Sep-08

CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 7/8/2008 9:50:00 AM. These samples were assigned ELI Workorder Number R08070115.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08070547

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08070547



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-001
 Client Sample ID: DewBurd GW692

Report Date: 09/12/08
 Collection Date: 07/07/08 13:39
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	186	mg/L		5		1	A2320 B 07/15/08 14:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/15/08 14:24/mb
Bicarbonate as HCO3	227	mg/L		5		1	A2320 B 07/15/08 14:24/mb
Calcium	131	mg/L		0.5		2	E200.7 07/24/08 17:27/eli-c
Chloride	8	mg/L		1		1	E300.0 07/08/08 19:58/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 07/08/08 19:58/jmh
Magnesium	46.5	mg/L		0.5		2	E200.7 07/24/08 17:27/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 07/14/08 14:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/08/08 19:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/08/08 19:58/jmh
Potassium	14.7	mg/L		0.5		2	E200.7 07/24/08 17:27/eli-c
Silica	4.8	mg/L		0.5		2	E200.7 07/24/08 17:27/eli-c
Sodium	105	mg/L	D	2		2	E200.7 07/24/08 17:27/eli-c
Sulfate	483	mg/L	D	3		50	E300.0 07/08/08 19:42/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1260	umhos/cm		5.0		1	A2510 B 07/10/08 09:46/tb
Oxidation-Reduction Potential	180	mV				1	A2580 B 07/11/08 00:00/kh
pH	7.60	s.u.		0.01		1	A4500-H B 07/10/08 11:03/tb
Sodium Adsorption Ratio (SAR)	2.0	unitless		0.10		1	Calculation 09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5		1	A2540 C 07/11/08 13:20/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 07/24/08 08:09/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/24/08 08:09/eli-c
Barium	ND	mg/L		0.1		1	E200.8 07/24/08 08:09/eli-c
Boron	0.1	mg/L		0.1		2	E200.7 07/24/08 17:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/24/08 08:09/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 07/24/08 08:09/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/24/08 08:09/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/24/08 17:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/24/08 08:09/eli-c
Manganese	0.14	mg/L		0.01		1	E200.8 07/24/08 08:09/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/24/08 08:09/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 07/24/08 08:09/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 07/24/08 08:09/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B 08/05/08 16:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/29/08 18:02/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/24/08 08:09/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-001
 Client Sample ID: DewBurd GW692

Report Date: 09/12/08
 Collection Date: 07/07/08 13:39
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0135	mg/L		0.0003		1	E200.8	07/24/08 08:09/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/24/08 08:09/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/24/08 08:09/eli-c
METALS - SUSPENDED								
Uranium	0.0067	mg/L		0.0003		1	E200.8	07/27/08 03:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/05/08 14:51/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1450	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Gross Alpha precision (±)	26.0	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Gross Alpha MDC	3.8	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Gross Beta	447	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Gross Beta precision (±)	7.3	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Gross Beta MDC	4.5	pCi/L				1	E900.0	08/09/08 00:01/eli-c
Lead 210	22.5	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	3.5	pCi/L		1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	2.1	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	484	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	4.2	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/10/08 16:43/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/10/08 16:43/eli-c
Gross Gamma	2400	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	260	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	125	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	14.5	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	12	pCi/L		1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	3.4	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	96.1	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	3.5	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-001
 Client Sample ID: DewBurd GW692

Report Date: 09/12/08
 Collection Date: 07/07/08 13:39
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	2.6	pCi/L		0.2		1 E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.7	pCi/L				1 E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	590000	pCi/L		100		1 D5072-92	07/12/08 12:07/eli-c
Radon 222 precision (±)	920	pCi/L				1 D5072-92	07/12/08 12:07/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	07/29/08 01:00/eli-c
Arsenic	0.005	mg/L		0.001		1 E200.8	07/29/08 01:00/eli-c
Barium	ND	mg/L		0.1		2 E200.7	07/21/08 17:35/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	07/29/08 01:00/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/21/08 17:35/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	07/29/08 01:00/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/21/08 17:35/eli-c
Copper	0.01	mg/L		0.01		2 E200.7	07/21/08 17:35/eli-c
Iron	7.24	mg/L		0.03		2 E200.7	07/21/08 17:35/eli-c
Lead	0.006	mg/L		0.001		1 E200.8	07/29/08 01:00/eli-c
Manganese	0.24	mg/L		0.01		2 E200.7	07/21/08 17:35/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/11/08 16:42/eli-b
Mercury	ND	mg/L		0.0001		1 E245.1	07/21/08 10:11/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/21/08 17:35/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/21/08 17:35/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	07/29/08 01:00/eli-c
Silver	ND	mg/L		0.005		1 E200.8	07/29/08 01:00/eli-c
Strontium	3.2	mg/L		0.1		2 E200.7	07/21/08 17:35/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	07/29/08 01:00/eli-c
Uranium	0.0202	mg/L		0.0003		1 E200.8	07/29/08 01:00/eli-c
Zinc	0.03	mg/L		0.01		2 E200.7	07/21/08 17:35/eli-c
DATA QUALITY							
A/C Balance (± 5)	4.52	%				1 A1030 E	09/11/08 00:00/jmh
Anions	14.0	meq/L				1 A1030 E	09/11/08 00:00/jmh
Cations	15.4	meq/L				1 A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	914	mg/L				1 A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02					1 A1030 E	09/11/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-002
 Client Sample ID: DewBurd GW680

Report Date: 09/12/08
 Collection Date: 07/07/08 13:29
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	248	mg/L		5		1	A2320 B	07/15/08 14:28/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 14:28/mb
Bicarbonate as HCO3	302	mg/L		5		1	A2320 B	07/15/08 14:28/mb
Calcium	404	mg/L		0.5		2	E200.7	07/24/08 17:35/eli-c
Chloride	12	mg/L		1		1	E300.0	07/08/08 20:31/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	07/08/08 20:31/jmh
Magnesium	126	mg/L		0.5		2	E200.7	07/24/08 17:35/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/14/08 14:32/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/08/08 20:31/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/08/08 20:31/jmh
Potassium	19.4	mg/L		0.5		2	E200.7	07/24/08 17:35/eli-c
Silica	4.3	mg/L		0.5		2	E200.7	07/24/08 17:35/eli-c
Sodium	131	mg/L	D	2		2	E200.7	07/24/08 17:35/eli-c
Sulfate	1260	mg/L	D	3		50	E300.0	07/08/08 20:15/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2490	umhos/cm		5.0		1	A2510 B	07/10/08 09:48/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	07/11/08 00:00/kh
pH	7.27	s.u.		0.01		1	A4500-H B	07/10/08 11:04/tb
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10		1	Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	07/11/08 13:21/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/24/08 17:35/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/26/08 04:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 04:43/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/24/08 17:35/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 04:43/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/24/08 17:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/26/08 04:43/eli-c
Iron	0.20	mg/L		0.03		2	E200.7	07/24/08 17:35/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/26/08 04:43/eli-c
Manganese	0.44	mg/L		0.01		1	E200.8	07/26/08 04:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/26/08 04:43/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/26/08 04:43/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/24/08 17:35/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B	08/05/08 17:00/eli-c
Silver	ND	mg/L	D	0.01		2	E200.7	07/24/08 17:35/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/26/08 04:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-002
 Client Sample ID: DewBurd GW680

Report Date: 09/12/08
 Collection Date: 07/07/08 13:29
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0186	mg/L		0.0003		1 E200.8	07/26/08 04:43/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	07/24/08 17:35/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/26/08 04:43/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 03:33/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/05/08 14:57/eli-c
Selenium-VI	0.002	mg/L		0.001		1 A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	4280	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Alpha precision (±)	68.1	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Alpha MDC	8.8	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta	1090	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta precision (±)	16.0	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Gross Beta MDC	9.2	pCi/L				1 E900.0	08/09/08 12:18/eli-c
Lead 210	26.5	pCi/L				1 E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	5.1	pCi/L				1 E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1 E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1 RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.97	pCi/L				1 RMO-3008	08/21/08 17:30/eli-c
Radium 226	1280	pCi/L				1 E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	6.7	pCi/L				1 E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/08/08 11:01/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	08/08/08 11:01/eli-c
Gross Gamma	2300	pCi/L		20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	270	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	1.2	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	1.7	pCi/L		1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	5.0	pCi/L				1 E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.9	pCi/L				1 E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-002
 Client Sample ID: DewBurd GW680

Report Date: 09/12/08
 Collection Date: 07/07/08 13:29
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.1	pCi/L	U	0.2		E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.2	pCi/L				E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	72000	pCi/L		100		D5072-92	07/12/08 13:49/eli-c
Radon 222 precision (±)	325	pCi/L				D5072-92	07/12/08 13:49/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		E200.8	07/29/08 01:07/eli-c
Arsenic	0.004	mg/L		0.001		E200.8	07/29/08 01:07/eli-c
Barium	ND	mg/L		0.1		E200.7	07/21/08 17:43/eli-c
Beryllium	ND	mg/L		0.001		E200.8	07/29/08 01:07/eli-c
Boron	ND	mg/L		0.1		E200.7	07/21/08 17:43/eli-c
Cadmium	ND	mg/L		0.005		E200.8	07/29/08 01:07/eli-c
Chromium	ND	mg/L		0.05		E200.7	07/21/08 17:43/eli-c
Copper	ND	mg/L		0.01		E200.7	07/21/08 17:43/eli-c
Iron	0.31	mg/L		0.03		E200.7	07/21/08 17:43/eli-c
Lead	ND	mg/L		0.001		E200.8	07/29/08 01:07/eli-c
Manganese	0.47	mg/L		0.01		E200.7	07/21/08 17:43/eli-c
Mercury	ND	mg/L		0.0002		E245.1	07/11/08 16:57/eli-b
Mercury	ND	mg/L		0.0001		E245.1	07/21/08 10:18/eli-b
Molybdenum	ND	mg/L		0.1		E200.7	07/21/08 17:43/eli-c
Nickel	ND	mg/L		0.05		E200.7	07/21/08 17:43/eli-c
Selenium	ND	mg/L		0.001		E200.8	07/29/08 01:07/eli-c
Silver	ND	mg/L		0.005		E200.8	07/29/08 01:07/eli-c
Strontium	7.6	mg/L		0.1		E200.7	07/21/08 17:43/eli-c
Thallium	ND	mg/L		0.001		E200.8	07/29/08 01:07/eli-c
Uranium	0.0208	mg/L		0.0003		E200.8	07/29/08 01:07/eli-c
Zinc	ND	mg/L		0.01		E200.7	07/21/08 17:43/eli-c
DATA QUALITY							
A/C Balance (± 5)	7.57	%				A1030 E	09/11/08 00:00/jmh
Anions	31.6	meq/L				A1030 E	09/11/08 00:00/jmh
Cations	36.8	meq/L				A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	2120	mg/L				A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.10					A1030 E	09/11/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-003
 Client Sample ID: DewBurd GW682

Report Date: 09/12/08
 Collection Date: 07/07/08 15:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	242	mg/L		5		A2320 B	07/15/08 14:31/mb
Carbonate as CO3	ND	mg/L		5		A2320 B	07/15/08 14:31/mb
Bicarbonate as HCO3	295	mg/L		5		A2320 B	07/15/08 14:31/mb
Calcium	365	mg/L		0.5		E200.7	07/22/08 15:38/eli-c
Chloride	12	mg/L		1		E300.0	07/08/08 21:04/jmh
Fluoride	0.4	mg/L		0.1		E300.0	07/08/08 21:04/jmh
Magnesium	109	mg/L		0.5		E200.7	07/22/08 15:38/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		A4500-NH3 G	07/14/08 14:33/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		E300.0	07/08/08 21:04/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		E300.0	07/08/08 21:04/jmh
Potassium	22.9	mg/L		0.5		E200.7	07/22/08 15:38/eli-c
Silica	2.1	mg/L		0.5		E200.7	07/22/08 15:38/eli-c
Sodium	113	mg/L		0.5		E200.7	07/22/08 15:38/eli-c
Sulfate	1170	mg/L	D	3		E300.0	07/08/08 20:47/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2360	umhos/cm		5.0		A2510 B	07/10/08 09:49/tb
Oxidation-Reduction Potential	290	mV				A2580 B	07/11/08 00:00/kh
pH	7.30	s.u.		0.01		A4500-H B	07/10/08 11:05/tb
Sodium Adsorption Ratio (SAR)	1.3	unitless		0.10		Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	1800	mg/L		5		A2540 C	07/11/08 13:21/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	07/22/08 15:38/eli-c
Arsenic	0.002	mg/L		0.001		E200.8	07/26/08 04:49/eli-c
Barium	ND	mg/L		0.1		E200.8	07/26/08 04:49/eli-c
Boron	0.2	mg/L		0.1		E200.7	07/22/08 15:38/eli-c
Cadmium	ND	mg/L		0.005		E200.8	07/26/08 04:49/eli-c
Chromium	ND	mg/L		0.05		E200.8	07/26/08 04:49/eli-c
Copper	ND	mg/L		0.01		E200.8	07/26/08 04:49/eli-c
Iron	ND	mg/L		0.03		E200.8	07/26/08 04:49/eli-c
Lead	ND	mg/L		0.001		E200.8	07/26/08 04:49/eli-c
Manganese	0.51	mg/L		0.01		E200.8	07/26/08 04:49/eli-c
Mercury	ND	mg/L		0.001		E200.8	07/26/08 04:49/eli-c
Molybdenum	ND	mg/L		0.1		E200.8	07/26/08 04:49/eli-c
Nickel	ND	mg/L		0.05		E200.8	07/26/08 04:49/eli-c
Selenium	ND	mg/L		0.001		A3114 B	08/05/08 17:02/eli-c
Silver	ND	mg/L		0.005		E200.8	07/29/08 18:43/eli-c
Thorium 232	ND	mg/L		0.005		E200.8	07/26/08 04:49/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-003
 Client Sample ID: DewBurd GW682

Report Date: 09/12/08
 Collection Date: 07/07/08 15:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0198	mg/L		0.0003		1	E200.8	07/26/08 04:49/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/26/08 04:49/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/26/08 04:49/eli-c
METALS - SUSPENDED								
Uranium	0.0004	mg/L		0.0003		1	E200.8	07/27/08 03:37/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/05/08 14:59/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	50.3	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Alpha precision (±)	7.6	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Alpha MDC	7.0	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta	14.0	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta precision (±)	6.8	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta MDC	11.0	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Lead 210	2.4	pCi/L	U			1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	3.4	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/08/08 11:01/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/08/08 11:01/eli-c
Gross Gamma	790	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-9.2	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.6	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.61	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.7	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-003
 Client Sample ID: DewBurd GW682

Report Date: 09/12/08
 Collection Date: 07/07/08 15:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By	
				RL	QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.3	pCi/L		0.2			1	E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1380	pCi/L		100			1	D5072-92	07/12/08 14:40/eli-c
Radon 222 precision (±)	65.5	pCi/L					1	D5072-92	07/12/08 14:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	07/29/08 01:14/eli-c
Arsenic	0.010	mg/L		0.001			1	E200.8	07/29/08 01:14/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/21/08 17:47/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	07/29/08 01:14/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/21/08 17:47/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	07/29/08 01:14/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/21/08 17:47/eli-c
Copper	0.01	mg/L		0.01			2	E200.7	07/21/08 17:47/eli-c
Iron	1.15	mg/L		0.03			2	E200.7	07/21/08 17:47/eli-c
Lead	0.001	mg/L		0.001			1	E200.8	07/29/08 01:14/eli-c
Manganese	0.55	mg/L		0.01			2	E200.7	07/21/08 17:47/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/11/08 17:04/eli-b
Mercury	ND	mg/L		0.0001			1	E245.1	07/21/08 10:20/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/21/08 17:47/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/21/08 17:47/eli-c
Selenium	0.002	mg/L		0.001			1	E200.8	07/29/08 01:14/eli-c
Silver	ND	mg/L		0.005			1	E200.8	07/29/08 01:14/eli-c
Strontium	6.6	mg/L		0.1			2	E200.7	07/21/08 17:47/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	07/29/08 01:14/eli-c
Uranium	0.0227	mg/L		0.0003			1	E200.8	07/29/08 01:14/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	07/21/08 17:47/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.13	%					1	A1030 E	09/11/08 00:00/jmh
Anions	29.5	meq/L					1	A1030 E	09/11/08 00:00/jmh
Cations	32.7	meq/L					1	A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	1940	mg/L					1	A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940						1	A1030 E	09/11/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-004
 Client Sample ID: DewBurd GW684

Report Date: 09/12/08
 Collection Date: 07/07/08 17:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	274	mg/L		5		1	A2320 B	07/15/08 14:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 14:53/mb
Bicarbonate as HCO3	334	mg/L		5		1	A2320 B	07/15/08 14:53/mb
Calcium	375	mg/L		0.5		1	E200.7	07/22/08 15:42/eli-c
Chloride	11	mg/L		1		1	E300.0	07/08/08 22:09/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	07/08/08 22:09/jmh
Magnesium	119	mg/L		0.5		1	E200.7	07/22/08 15:42/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/14/08 14:34/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/08/08 22:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/08/08 22:09/jmh
Potassium	24.5	mg/L		0.5		1	E200.7	07/22/08 15:42/eli-c
Silica	2.7	mg/L		0.5		1	E200.7	07/22/08 15:42/eli-c
Sodium	127	mg/L		0.5		1	E200.7	07/22/08 15:42/eli-c
Sulfate	1280	mg/L	D	3		50	E300.0	07/08/08 21:20/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2510	umhos/cm		5.0		1	A2510 B	07/10/08 09:52/tb
Oxidation-Reduction Potential	300	mV				1	A2580 B	07/11/08 00:00/kh
pH	7.43	s.u.		0.01		1	A4500-H B	07/10/08 11:07/tb
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10		1	Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	07/11/08 13:22/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	07/22/08 15:42/eli-c
Arsenic	0.030	mg/L		0.001		1	E200.8	07/26/08 04:56/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 04:56/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	07/22/08 15:42/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 04:56/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/26/08 04:56/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/26/08 04:56/eli-c
Iron	0.47	mg/L		0.03		1	E200.7	07/22/08 15:42/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/26/08 04:56/eli-c
Manganese	0.54	mg/L		0.01		1	E200.8	07/26/08 04:56/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/26/08 04:56/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/26/08 04:56/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/26/08 04:56/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/05/08 17:04/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 18:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/26/08 04:56/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-004
 Client Sample ID: DewBurd GW684

Report Date: 09/12/08
 Collection Date: 07/07/08 17:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0667	mg/L		0.0003		1	E200.8	07/26/08 04:56/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/26/08 04:56/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/26/08 04:56/eli-c
METALS - SUSPENDED								
Uranium	0.177	mg/L		0.0003		1	E200.8	07/27/08 03:41/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/05/08 15:01/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1890	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Alpha precision (±)	45.6	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Alpha MDC	8.8	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta	556	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta precision (±)	12.0	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta MDC	9.2	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Lead 210	29.0	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	5.1	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	5.1	pCi/L		1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	2.0	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	543	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	4.2	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Thorium 230	0.8	pCi/L		0.2		1	E907.0	08/10/08 16:44/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	08/10/08 16:44/eli-c
Gross Gamma	1800	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	240	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	94.6	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	14.1	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	56	pCi/L		1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	13	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	44.1	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	2.5	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-004
 Client Sample ID: DewBurd GW684

Report Date: 09/12/08
 Collection Date: 07/07/08 17:22
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230	65.9	pCi/L		0.2		1	E907.0	08/06/08 15:14/eli-c
Thorium 230 precision (±)	10	pCi/L				1	E907.0	08/06/08 15:14/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	234000	pCi/L		100		1	D5072-92	07/12/08 15:31/eli-c
Radon 222 precision (±)	572	pCi/L				1	D5072-92	07/12/08 15:31/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	07/29/08 01:21/eli-c
Arsenic	0.040	mg/L		0.001		1	E200.8	07/29/08 01:21/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/21/08 17:51/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	07/29/08 01:21/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/21/08 17:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/29/08 01:21/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 17:51/eli-c
Copper	ND	mg/L		0.01		2	E200.7	07/21/08 17:51/eli-c
Iron	1.68	mg/L		0.03		2	E200.7	07/21/08 17:51/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	07/29/08 01:21/eli-c
Manganese	0.63	mg/L		0.01		2	E200.7	07/21/08 17:51/eli-c
Mercury	ND	mg/L		0.0002		1	E245.1	07/11/08 17:07/eli-b
Mercury	ND	mg/L		0.0001		1	E245.1	07/21/08 10:23/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 17:51/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 17:51/eli-c
Selenium	0.005	mg/L		0.001		1	E200.8	07/29/08 01:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 01:21/eli-c
Strontium	7.6	mg/L		0.1		2	E200.7	07/21/08 17:51/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	07/29/08 01:21/eli-c
Uranium	0.336	mg/L		0.0003		1	E200.8	07/29/08 01:21/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/21/08 17:51/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.15	%				1	A1030 E	09/11/08 00:00/jmh
Anions	32.6	meq/L				1	A1030 E	09/11/08 00:00/jmh
Cations	34.7	meq/L				1	A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	2110	mg/L				1	A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	09/11/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-005
 Client Sample ID: DewBurd GW690

Report Date: 09/12/08
 Collection Date: 07/07/08 18:10
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	38	mg/L		5		1	A2320 B	07/15/08 14:55/mb
Carbonate as CO3	7	mg/L		5		1	A2320 B	07/15/08 14:55/mb
Bicarbonate as HCO3	32	mg/L		5		1	A2320 B	07/15/08 14:55/mb
Calcium	42.1	mg/L		0.5		1	E200.7	07/22/08 15:55/eli-c
Chloride	30	mg/L		1		5	E300.0	07/12/08 00:49/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/08/08 23:15/jmh
Magnesium	25.4	mg/L		0.5		1	E200.7	07/22/08 15:55/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	07/14/08 14:38/jmh
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	07/08/08 23:15/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/08/08 23:15/jmh
Potassium	14.0	mg/L		0.5		1	E200.7	07/22/08 15:55/eli-c
Silica	ND	mg/L		0.5		1	E200.7	07/22/08 15:55/eli-c
Sodium	342	mg/L		0.5		1	E200.7	07/22/08 15:55/eli-c
Sulfate	807	mg/L	D	3		50	E300.0	07/08/08 22:26/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2000	umhos/cm		5.0		1	A2510 B	07/10/08 09:52/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	07/11/08 00:00/kh
pH	9.27	s.u.		0.01		1	A4500-H B	07/10/08 11:07/tb
Sodium Adsorption Ratio (SAR)	10	unitless		0.10		1	Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	1400	mg/L		5		1	A2540 C	07/11/08 14:28/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 08:16/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/24/08 08:16/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/24/08 08:16/eli-c
Boron	0.7	mg/L		0.1		1	E200.7	07/22/08 15:55/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/24/08 08:16/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/24/08 08:16/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/24/08 08:16/eli-c
Iron	ND	mg/L		0.03		1	E200.7	07/22/08 15:55/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 08:16/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	07/24/08 08:16/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 08:16/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/24/08 08:16/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/24/08 08:16/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/05/08 17:06/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 18:56/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 08:16/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-005
 Client Sample ID: DewBurd GW690

Report Date: 09/12/08
 Collection Date: 07/07/08 18:10
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/24/08 08:16/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/24/08 08:16/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/24/08 08:16/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/27/08 03:45/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/05/08 15:03/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4.8	pCi/L	U			1	E900.0	08/09/08 12:18/eli-c
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Alpha MDC	5.4	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta	6.1	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta MDC	5.5	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Lead 210	1.8	pCi/L	U			1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/08/08 11:01/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/08/08 11:01/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	210	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-5.7	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-005
 Client Sample ID: DewBurd GW690

Report Date: 09/12/08
 Collection Date: 07/07/08 18:10
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	194	pCi/L		100		1 D5072-92	07/12/08 16:22/eli-c
Radon 222 precision (±)	50.0	pCi/L				1 D5072-92	07/12/08 16:22/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	07/29/08 03:03/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	07/29/08 03:03/eli-c
Barium	ND	mg/L		0.1		2 E200.7	07/21/08 18:07/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	07/29/08 03:03/eli-c
Boron	0.7	mg/L		0.1		2 E200.7	07/21/08 18:07/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	07/29/08 03:03/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/21/08 18:07/eli-c
Copper	ND	mg/L		0.01		2 E200.7	07/21/08 18:07/eli-c
Iron	1.48	mg/L		0.03		2 E200.7	07/21/08 18:07/eli-c
Lead	0.019	mg/L		0.001		1 E200.8	07/29/08 03:03/eli-c
Manganese	0.02	mg/L		0.01		2 E200.7	07/21/08 18:07/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/11/08 17:09/eli-b
Mercury	ND	mg/L		0.0001		1 E245.1	07/21/08 10:25/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/21/08 18:07/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/21/08 18:07/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	07/29/08 03:03/eli-c
Silver	ND	mg/L		0.005		1 E200.8	07/31/08 16:39/eli-c
Strontium	2.6	mg/L		0.1		2 E200.7	07/21/08 18:07/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	07/29/08 03:03/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	07/29/08 03:03/eli-c
Zinc	0.20	mg/L		0.01		2 E200.7	07/21/08 18:07/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.66	%				1 A1030 E	09/11/08 00:00/jmh
Anions	18.4	meq/L				1 A1030 E	09/11/08 00:00/jmh
Cations	19.4	meq/L				1 A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	1280	mg/L				1 A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.09					1 A1030 E	09/11/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-006
 Client Sample ID: DewBurd GW688

Report Date: 09/12/08
 Collection Date: 07/07/08 18:49
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	160	mg/L		5		1	A2320 B	07/15/08 14:58/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 14:58/mb
Bicarbonate as HCO3	190	mg/L		5		1	A2320 B	07/15/08 14:58/mb
Calcium	49.3	mg/L		0.5		1	E200.7	07/22/08 16:03/eli-c
Chloride	11	mg/L		1		1	E300.0	07/08/08 23:48/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/08/08 23:48/jmh
Magnesium	20.0	mg/L		0.5		1	E200.7	07/22/08 16:03/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	07/14/08 14:54/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/08/08 23:48/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/08/08 23:48/jmh
Potassium	15.6	mg/L		0.5		1	E200.7	07/22/08 16:03/eli-c
Silica	1.9	mg/L		0.5		1	E200.7	07/22/08 16:03/eli-c
Sodium	177	mg/L		0.5		1	E200.7	07/22/08 16:03/eli-c
Sulfate	413	mg/L	D	3		50	E300.0	07/08/08 23:32/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1170	umhos/cm		5.0		1	A2510 B	07/10/08 09:53/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	07/11/08 00:00/kh
pH	8.33	s.u.		0.01		1	A4500-H B	07/10/08 11:08/tb
Sodium Adsorption Ratio (SAR)	5.4	unitless		0.10		1	Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	780	mg/L		5		1	A2540 C	07/11/08 14:29/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	07/22/08 16:03/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/26/08 05:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 05:08/eli-c
Boron	ND	mg/L		0.1		1	E200.7	07/22/08 16:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 05:08/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/26/08 05:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/26/08 05:08/eli-c
Iron	0.03	mg/L		0.03		1	E200.8	07/26/08 05:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/26/08 05:08/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	07/26/08 05:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/26/08 05:08/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/26/08 05:08/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/26/08 05:08/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/05/08 17:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 19:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/26/08 05:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-006
 Client Sample ID: DewBurd GW688

Report Date: 09/12/08
 Collection Date: 07/07/08 18:49
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/26/08 05:08/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/26/08 05:08/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/26/08 05:08/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/27/08 03:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/05/08 15:05/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	29.8	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Alpha precision (±)	4.1	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Alpha MDC	3.4	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta	14.1	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta MDC	3.5	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Lead 210	-0.4	pCi/L	U			1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.88	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	6.7	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/08/08 11:01/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	08/08/08 11:01/eli-c
Gross Gamma	990	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-6	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-006
 Client Sample ID: DewBurd GW688

Report Date: 09/12/08
 Collection Date: 07/07/08 18:49
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.1	pCi/L	U	0.2		E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.2	pCi/L				E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	227	pCi/L		100		D5072-92	07/12/08 17:13/eli-c
Radon 222 precision (±)	50.3	pCi/L				D5072-92	07/12/08 17:13/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003	1	E200.8	07/29/08 03:09/eli-c
Arsenic	0.003	mg/L		0.001	1	E200.8	07/29/08 03:09/eli-c
Barium	ND	mg/L		0.1	2	E200.7	07/21/08 18:11/eli-c
Beryllium	ND	mg/L		0.001	1	E200.8	07/29/08 03:09/eli-c
Boron	ND	mg/L		0.1	2	E200.7	07/21/08 18:11/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	07/29/08 03:09/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	07/21/08 18:11/eli-c
Copper	ND	mg/L		0.01	2	E200.7	07/21/08 18:11/eli-c
Iron	0.18	mg/L		0.03	2	E200.7	07/21/08 18:11/eli-c
Lead	ND	mg/L		0.001	1	E200.8	07/29/08 03:09/eli-c
Manganese	0.04	mg/L		0.01	2	E200.7	07/21/08 18:11/eli-c
Mercury	ND	mg/L		0.0002	1	E245.1	07/11/08 17:11/eli-b
Mercury	ND	mg/L		0.0001	1	E245.1	07/21/08 10:27/eli-b
Molybdenum	ND	mg/L		0.1	2	E200.7	07/21/08 18:11/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	07/21/08 18:11/eli-c
Selenium	ND	mg/L		0.001	1	E200.8	07/29/08 03:09/eli-c
Silver	ND	mg/L		0.005	1	E200.8	07/31/08 16:46/eli-c
Strontium	1.4	mg/L		0.1	2	E200.7	07/21/08 18:11/eli-c
Thallium	ND	mg/L		0.001	1	E200.8	07/29/08 03:09/eli-c
Uranium	ND	mg/L		0.0003	1	E200.8	07/29/08 03:09/eli-c
Zinc	ND	mg/L		0.01	2	E200.7	07/21/08 18:11/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.430	%			1	A1030 E	09/11/08 00:00/jmh
Anions	12.1	meq/L			1	A1030 E	09/11/08 00:00/jmh
Cations	12.2	meq/L			1	A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	788	mg/L			1	A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.990				1	A1030 E	09/11/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-007
 Client Sample ID: DewBurd GW686

Report Date: 09/12/08
 Collection Date: 07/07/08 19:03
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	42	mg/L		5		1	A2320 B	07/15/08 15:01/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 15:01/mb
Bicarbonate as HCO3	51	mg/L		5		1	A2320 B	07/15/08 15:01/mb
Calcium	150	mg/L		0.5		1	E200.7	07/22/08 16:08/eli-c
Chloride	13	mg/L		1		1	E300.0	07/09/08 00:21/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	07/09/08 00:21/jmh
Magnesium	49.5	mg/L		0.5		1	E200.7	07/22/08 16:08/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G	07/14/08 14:55/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/09/08 00:21/jmh
Nitrogen, Nitrite as N	0.1	mg/L		0.1		1	E300.0	07/09/08 00:21/jmh
Potassium	27.7	mg/L		0.5		1	E200.7	07/22/08 16:08/eli-c
Silica	1.7	mg/L		0.5		1	E200.7	07/22/08 16:08/eli-c
Sodium	176	mg/L		0.5		1	E200.7	07/22/08 16:08/eli-c
Sulfate	812	mg/L	D	3		50	E300.0	07/09/08 00:04/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1720	umhos/cm		5.0		1	A2510 B	07/10/08 09:54/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	07/11/08 00:00/kh
pH	8.68	s.u.		0.01		1	A4500-H B	07/10/08 11:09/tb
Sodium Adsorption Ratio (SAR)	3.2	unitless		0.10		1	Calculation	09/11/08 08:58/ADM
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C	07/14/08 14:54/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.7	07/22/08 16:08/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/26/08 05:15/eli-c
Barium	ND	mg/L		0.1		1	E200.7	07/22/08 16:08/eli-c
Boron	ND	mg/L		0.1		1	E200.7	07/22/08 16:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/29/08 19:10/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/29/08 19:10/eli-c
Copper	ND	mg/L		0.01		1	E200.7	07/22/08 16:08/eli-c
Iron	ND	mg/L		0.03		1	E200.7	07/22/08 16:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/26/08 05:15/eli-c
Manganese	0.03	mg/L		0.01		1	E200.8	07/29/08 19:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/26/08 05:15/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	07/22/08 16:08/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/29/08 19:10/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B	08/05/08 17:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/29/08 19:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/26/08 05:15/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-007
 Client Sample ID: DewBurd GW686

Report Date: 09/12/08
 Collection Date: 07/07/08 19:03
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0012	mg/L		0.0003		1	E200.8	07/26/08 05:15/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/29/08 19:10/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/29/08 19:10/eli-c
METALS - SUSPENDED								
Uranium	0.0004	mg/L		0.0003		1	E200.8	07/27/08 03:53/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/05/08 15:15/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	11.3	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Alpha precision (±)	3.4	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Alpha MDC	4.2	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta	16.4	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Gross Beta MDC	5.6	pCi/L				1	E900.0	08/30/08 22:33/eli-c
Lead 210	6.1	pCi/L	U			1	E909.0M	07/24/08 08:45/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Lead 210 MDC	7.9	pCi/L				1	E909.0M	07/24/08 08:45/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.52	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	3.3	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/05/08 16:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/08/08 11:01/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/08/08 11:01/eli-c
Gross Gamma	1000	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	180	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2.3	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.37	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 13:33/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070115-007
 Client Sample ID: DewBurd GW686

Report Date: 09/12/08
 Collection Date: 07/07/08 19:03
 Date Received: 07/08/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	467	pCi/L		100		1	D5072-92	07/12/08 18:03/eli-c
Radon 222 precision (±)	53.4	pCi/L				1	D5072-92	07/12/08 18:03/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	07/29/08 03:16/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/29/08 03:16/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/21/08 18:15/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	07/29/08 03:16/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/21/08 18:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/29/08 03:16/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/21/08 18:15/eli-c
Copper	ND	mg/L		0.01		2	E200.7	07/21/08 18:15/eli-c
Iron	0.07	mg/L		0.03		2	E200.7	07/21/08 18:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/29/08 03:16/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	07/21/08 18:15/eli-c
Mercury	ND	mg/L		0.0002		1	E245.1	07/11/08 17:14/eli-b
Mercury	ND	mg/L		0.0001		1	E245.1	07/21/08 10:30/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	07/21/08 18:15/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/21/08 18:15/eli-c
Selenium	0.008	mg/L		0.001		1	E200.8	07/29/08 03:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/31/08 17:20/eli-c
Strontium	4.4	mg/L		0.1		2	E200.7	07/21/08 18:15/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	07/29/08 03:16/eli-c
Uranium	0.0072	mg/L		0.0003		1	E200.8	07/29/08 03:16/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/21/08 18:15/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.80	%				1	A1030 E	09/11/08 00:00/jmh
Anions	18.1	meq/L				1	A1030 E	09/11/08 00:00/jmh
Cations	20.0	meq/L				1	A1030 E	09/11/08 00:00/jmh
Solids, Total Dissolved Calculated	1260	mg/L				1	A1030 E	09/11/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	09/11/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080715A-ALK-SEL-W		
Sample ID: LCS1_080715A Alkalinity, Total as CaCO3	Laboratory Control Sample 952	mg/L	5.0	95	90	110			07/15/08 14:16
Run: PH_COND1-R_080715A									
Sample ID: MBLK1_080715A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						07/15/08 14:17
Run: PH_COND1-R_080715A									
Sample ID: R08070130-003AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 218	mg/L	5.0	96	80	120			07/15/08 15:23
Run: PH_COND1-R_080715A									
Sample ID: R08070130-003AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 218	mg/L	5.0	96	80	120	0	10	07/15/08 15:26
Run: PH_COND1-R_080715A									
Method: A2510 B							Batch: 080710_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080710 Conductivity @ 25 C	Laboratory Control Sample 1440	umhos/cm	5.0	102	90	110			07/10/08 09:29
Run: PH_COND2-R_080710A									
Sample ID: LCS1-1_080710 Conductivity @ 25 C	Laboratory Control Sample 157	umhos/cm	5.0	101	90	110			07/10/08 09:29
Run: PH_COND2-R_080710A									
Sample ID: LCS2-1_080710 Conductivity @ 25 C	Laboratory Control Sample 5060	umhos/cm	5.0	101	90	110			07/10/08 09:31
Run: PH_COND2-R_080710A									
Sample ID: MBLK-1_080710 Conductivity @ 25 C	Method Blank 5	umhos/cm	5						07/10/08 09:40
Run: PH_COND2-R_080710A									
Sample ID: R08070115-007ADUP Conductivity @ 25 C	Sample Duplicate 1750	umhos/cm	5.0				1.7	10	07/10/08 09:55
Run: PH_COND2-R_080710A									
Method: A2540 C							Batch: 080710A-SLDS-TDS-W		
Sample ID: LCS1_080710A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 210	mg/L	5.0	103	90	110			07/11/08 13:11
Run: BAL-4-R_080710B									
Sample ID: MBLK1_080710A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						07/11/08 13:12
Run: BAL-4-R_080710B									
Sample ID: R08070104-010AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 380	mg/L	5.0	99	80	120			07/11/08 13:19
Run: BAL-4-R_080710B									
Sample ID: R08070104-010AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 380	mg/L	5.0	99	80	120	0	10	07/11/08 13:19
Run: BAL-4-R_080710B									
Sample ID: R08070130-003AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 440	mg/L	5.0	108	80	120			07/14/08 14:57
Run: BAL-4-R_080710B									
Sample ID: R08070130-003AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 440	mg/L	5.0	107	80	120	0.5	10	07/14/08 14:57
Run: BAL-4-R_080710B									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080711-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_080711A		07/11/08 00:00		
Oxidation-Reduction Potential	470	mV		99	95	105			
Sample ID: R08070115-007F	Sample Duplicate				Run: PH_COND1-R_080711A		07/11/08 00:00		
Oxidation-Reduction Potential	200	mV					2	10	
Method: A3114 B							Batch: C_SE3114-080805B		
Sample ID: MBLK	Method Blank				Run: SUB-C105358		08/05/08 14:47		
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-114-6	Laboratory Control Sample				Run: SUB-C105358		08/05/08 14:49		
Selenium-IV	0.050	mg/L	0.0010	99	90	110			
Sample ID: R08070115-001E	Sample Matrix Spike				Run: SUB-C105358		08/05/08 14:53		
Selenium-IV	0.052	mg/L	0.0010	103	85	115			
Sample ID: R08070115-001E	Sample Matrix Spike Duplicate				Run: SUB-C105358		08/05/08 14:55		
Selenium-IV	0.052	mg/L	0.0010	103	85	115	0	10	
Sample ID: C08070631-001CMS	Sample Matrix Spike				Run: SUB-C105358		08/05/08 15:22		
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: C08070631-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C105358		08/05/08 15:24		
Selenium-IV	0.046	mg/L	0.0010	93	85	115	0.9	10	
Method: A3114 B							Batch: C_SE3114-080805C		
Sample ID: MBLK	Method Blank				Run: SUB-C105366		08/05/08 16:49		
Selenium	ND	mg/L	6E-05						
Sample ID: 288-114-6	Laboratory Control Sample				Run: SUB-C105366		08/05/08 16:51		
Selenium	0.050	mg/L	0.0010	99	90	110			
Sample ID: R08070115-001E	Sample Matrix Spike				Run: SUB-C105366		08/05/08 16:56		
Selenium	0.053	mg/L	0.0010	102	85	115			
Sample ID: R08070115-001E	Sample Matrix Spike Duplicate				Run: SUB-C105366		08/05/08 16:58		
Selenium	0.054	mg/L	0.0010	104	85	115	1.1	10	
Method: A4500-H B							Batch: 080710_1_PH-W		
Sample ID: LCS_pH-1_080710	Laboratory Control Sample				Run: PH_COND2-R_080710B		07/10/08 11:01		
pH	6.85	s.u.	0.010	100	98.55	101.45			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-07-14_2_NH3_01		
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						
						Run: TECHAA2-R_080714A			07/14/08 12:01
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.27	mg/L	0.10	107	90	110			07/14/08 12:33
						Run: TECHAA2-R_080714A			07/14/08 12:54
Sample ID: LFB-4	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.22	mg/L	0.10	89	90	110			S
						Run: TECHAA2-R_080714A			07/14/08 14:39
Sample ID: R08070115-005BMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.61	mg/L	0.10	107	80	120			07/14/08 14:39
						Run: TECHAA2-R_080714A			07/14/08 14:40
Sample ID: R08070115-005BMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.57	mg/L	0.10	90	80	120	7.1	10	07/14/08 14:40
Method: D5072-92							Batch: C_R104163		
Sample ID: R08070115-001G	Sample Duplicate								
Radon 222	520000	pCi/L	100				13	30	07/12/08 12:58
						Run: SUB-C104163			07/12/08 01:21
Sample ID: MB-R104163	Method Blank								
Radon 222	20	pCi/L							07/12/08 01:21
						Run: SUB-C104163			07/12/08 02:16
Sample ID: LCS-R104163	Laboratory Control Sample								
Radon 222	303	pCi/L	100	91	70	130			07/12/08 02:16

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19130		
Sample ID: MB-19130	Method Blank			Run: SUB-C104583			07/21/08 17:27		
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.002	mg/L	0.001						
Sample ID: LCS3-19130	Laboratory Control Sample			Run: SUB-C104583			07/21/08 17:31		
Barium	0.511	mg/L	0.10	102	85	115			
Boron	0.504	mg/L	0.10	101	85	115			
Chromium	0.512	mg/L	0.050	102	85	115			
Copper	0.512	mg/L	0.010	102	85	115			
Iron	2.60	mg/L	0.030	104	85	115			
Manganese	2.55	mg/L	0.010	102	85	115			
Molybdenum	0.502	mg/L	0.10	100	85	115			
Nickel	0.506	mg/L	0.050	101	85	115			
Strontium	0.519	mg/L	0.10	104	85	115			
Zinc	0.517	mg/L	0.010	103	85	115			
Sample ID: C08070562-001HMS3	Sample Matrix Spike			Run: SUB-C104583			07/21/08 18:32		
Barium	0.543	mg/L	0.10	104	70	130			
Boron	0.716	mg/L	0.10	104	70	130			
Chromium	0.511	mg/L	0.050	102	70	130			
Copper	0.517	mg/L	0.010	103	70	130			
Iron	3.71	mg/L	0.030	103	70	130			
Manganese	2.67	mg/L	0.010	103	70	130			
Molybdenum	0.499	mg/L	0.10	100	70	130			
Nickel	0.511	mg/L	0.050	102	70	130			
Strontium	1.71	mg/L	0.10	97	70	130			
Zinc	0.529	mg/L	0.010	104	70	130			
Sample ID: C08070562-001HMSD3	Sample Matrix Spike Duplicate			Run: SUB-C104583			07/21/08 18:36		
Barium	0.531	mg/L	0.10	101	70	130	2.2	20	
Boron	0.715	mg/L	0.10	104	70	130	0.1	20	
Chromium	0.505	mg/L	0.050	101	70	130	1.2	20	
Copper	0.511	mg/L	0.010	102	70	130	1.2	20	
Iron	3.72	mg/L	0.030	104	70	130	0.2	20	
Manganese	2.62	mg/L	0.010	101	70	130	1.8	20	
Molybdenum	0.508	mg/L	0.10	102	70	130	1.9	20	
Nickel	0.506	mg/L	0.050	101	70	130	1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19130		
Sample ID: C08070562-001HMSD3	Sample Matrix Spike Duplicate			Run: SUB-C104583			07/21/08 18:36		
Strontium	1.76	mg/L	0.10	107	70	130	2.7	20	
Zinc	0.518	mg/L	0.010	102	70	130	2.1	20	
Method: E200.7							Batch: C_R104679		
Sample ID: MB-080722	Method Blank			Run: SUB-C104679			07/22/08 11:40		
Aluminum	0.1	mg/L	0.0001						
Boron	0.06	mg/L	0.02						
Copper	0.004	mg/L	6E-05						
Iron	0.2	mg/L	0.005						
Molybdenum	ND	mg/L	0.0001						
Calcium	0.7	mg/L	0.04						
Magnesium	0.6	mg/L	0.06						
Potassium	0.6	mg/L	0.05						
Silica	ND	mg/L	0.1						
Sodium	ND	mg/L	0.07						
Sample ID: R08070115-004C	Sample Matrix Spike			Run: SUB-C104679			07/22/08 15:46		
Aluminum	0.561	mg/L	0.10	112	70	130			
Boron	0.657	mg/L	0.10	99	70	130			
Copper	0.553	mg/L	0.010	109	70	130			
Iron	0.941	mg/L	0.031	94	70	130			
Molybdenum	0.548	mg/L	0.10	110	70	130			
Sample ID: R08070115-004C	Sample Matrix Spike Duplicate			Run: SUB-C104679			07/22/08 15:51		
Aluminum	0.544	mg/L	0.10	109	70	130	3.1	20	
Boron	0.649	mg/L	0.10	98	70	130	1.2	20	
Copper	0.541	mg/L	0.010	107	70	130	2.2	20	
Iron	0.933	mg/L	0.031	93	70	130	0.9	20	
Molybdenum	0.530	mg/L	0.10	106	70	130	3.3	20	
Sample ID: C08070893-002BDUP	Sample Duplicate			Run: SUB-C104679			07/23/08 01:34		
Aluminum	0.0270	mg/L	0.10				0	20	
Boron	ND	mg/L	0.10				0	20	
Copper	ND	mg/L	0.010				0	20	
Iron	ND	mg/L	0.030				0	20	
Molybdenum	ND	mg/L	0.10				0	20	
Calcium	0.149	mg/L	1.0				0	20	
Magnesium	ND	mg/L	1.0				0	20	
Potassium	0.551	mg/L	1.0				0	20	
Silica	ND	mg/L	0.10						
Sodium	0.164	mg/L	1.0				0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104799		
Sample ID: MB-080724A	Method Blank		Run: SUB-C104799			07/24/08 13:13			
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Boron	0.02	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Silver	ND	mg/L	0.006						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Sample ID: LFB-080724A	Laboratory Fortified Blank		Run: SUB-C104799			07/24/08 13:17			
Silica	0.39	mg/L	0.10	99	85	125			
Aluminum	1.0	mg/L	0.10	100	85	125			
Boron	1.1	mg/L	0.10	105	85	125			
Calcium	54	mg/L	0.50	108	85	125			
Chromium	1.0	mg/L	0.050	105	85	125			
Iron	1.1	mg/L	0.030	109	85	125			
Magnesium	54	mg/L	0.50	108	85	125			
Nickel	1.0	mg/L	0.050	104	85	125			
Potassium	46	mg/L	0.50	93	85	125			
Silver	1.0	mg/L	0.010	102	85	125			
Sodium	50	mg/L	0.77	99	85	125			
Vanadium	1.1	mg/L	0.10	106	85	125			
Sample ID: C08070339-001JMS2	Sample Matrix Spike		Run: SUB-C104799			07/24/08 17:19			
Aluminum	1.95	mg/L	0.10	98	70	130			
Boron	2.25	mg/L	0.10	103	70	130			
Chromium	2.05	mg/L	0.050	102	70	130			
Iron	2.13	mg/L	0.030	106	70	130			
Nickel	2.02	mg/L	0.050	101	70	130			
Silver	2.00	mg/L	0.012	100	70	130			
Vanadium	2.17	mg/L	0.10	108	70	130			
Calcium	263	mg/L	1.0	103	70	130			
Magnesium	153	mg/L	1.0	103	70	130			
Potassium	105	mg/L	1.0	90	70	130			
Silica	7.85	mg/L	0.10		70	130			A
Sodium	144	mg/L	1.5	99	70	130			
Sample ID: C08070339-001JMSD2	Sample Matrix Spike Duplicate		Run: SUB-C104799			07/24/08 17:23			
Aluminum	1.97	mg/L	0.10	98	70	130	0.8	20	
Boron	2.23	mg/L	0.10	102	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104799		
Sample ID: C08070339-001JMSD2	Sample Matrix Spike Duplicate			Run: SUB-C104799			07/24/08 17:23		
Chromium	2.02	mg/L	0.050	101	70	130	1.5	20	
Iron	2.10	mg/L	0.030	105	70	130	1.3	20	
Nickel	1.98	mg/L	0.050	99	70	130	1.7	20	
Silver	2.00	mg/L	0.012	100	70	130	0.1	20	
Vanadium	2.07	mg/L	0.10	103	70	130	4.5	20	
Calcium	259	mg/L	1.0	99	70	130	1.5	20	
Magnesium	150	mg/L	1.0	100	70	130	1.8	20	
Potassium	106	mg/L	1.0	90	70	130	0.6	20	
Silica	7.77	mg/L	0.10		70	130	1	20	A
Sodium	141	mg/L	1.5	97	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19130		
Sample ID: MB-19130	Method Blank			Run: SUB-C104980			07/28/08 12:37		
Antimony	0.0003	mg/L	0.0002						
Arsenic	0.0005	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Selenium	0.0003	mg/L	0.0002						
Silver	5E-05	mg/L	4E-05						
Thallium	ND	mg/L	3E-05						
Uranium	0.0002	mg/L	3E-05						
Sample ID: LCS3-19130	Laboratory Control Sample			Run: SUB-C104980			07/28/08 12:44		
Antimony	0.53	mg/L	0.0018	106	85	115			
Arsenic	0.52	mg/L	0.0010	105	85	115			
Beryllium	0.26	mg/L	0.0011	103	85	115			
Cadmium	0.26	mg/L	0.0010	102	85	115			
Lead	0.51	mg/L	0.0010	102	85	115			
Selenium	0.51	mg/L	0.0020	103	85	115			
Silver	0.048	mg/L	0.0010	96	85	115			
Thallium	0.50	mg/L	0.0010	101	85	115			
Uranium	0.52	mg/L	0.00032	104	85	115			
Sample ID: C08070562-001HMS3	Sample Matrix Spike			Run: SUB-C104980			07/28/08 13:59		
Antimony	0.61	mg/L	0.0010	122	70	130			
Arsenic	0.54	mg/L	0.0010	106	70	130			
Beryllium	0.27	mg/L	0.0010	107	70	130			
Cadmium	0.27	mg/L	0.0010	106	70	130			
Lead	0.57	mg/L	0.0010	113	70	130			
Selenium	0.50	mg/L	0.0010	101	70	130			
Silver	0.050	mg/L	0.0010	100	70	130			
Thallium	0.57	mg/L	0.0010	113	70	130			
Uranium	0.63	mg/L	0.00030	60	70	130			S
Sample ID: C08070562-001HMSD3	Sample Matrix Spike Duplicate			Run: SUB-C104980			07/28/08 14:06		
Antimony	0.59	mg/L	0.0010	119	70	130	3	20	
Arsenic	0.52	mg/L	0.0010	103	70	130	3.3	20	
Beryllium	0.26	mg/L	0.0010	104	70	130	3.3	20	
Cadmium	0.26	mg/L	0.0010	103	70	130	2.8	20	
Lead	0.55	mg/L	0.0010	110	70	130	2.5	20	
Selenium	0.48	mg/L	0.0010	97	70	130	4	20	
Silver	0.048	mg/L	0.0010	96	70	130	4	20	
Thallium	0.54	mg/L	0.0010	108	70	130	4.8	20	
Uranium	0.60	mg/L	0.00030	58	70	130	3.8	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19224
Sample ID: MB-19224 Uranium	Method Blank 2E-05	mg/L							Run: SUB-C104868 07/27/08 03:08
Sample ID: LCS1-19224 Uranium	Laboratory Control Sample 0.0471	mg/L	0.00030	90	80	120			Run: SUB-C104868 07/27/08 03:12
Sample ID: C08070737-009IMS4 Uranium	Post Digestion Spike 0.0115	mg/L	0.00030	92	70	130			Run: SUB-C104868 07/27/08 04:50
Sample ID: C08070737-009IMS4 Uranium	Post Digestion Spike Duplicate 0.0115	mg/L	0.00030	91	70	130	0.6	20	Run: SUB-C104868 07/27/08 04:54

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: LRB	Method Blank			Run: SUB-C104758			07/23/08 12:27		
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	4E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	3E-06						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Manganese	ND	mg/L	6E-06						
Mercury	ND	mg/L	1E-05						
Molybdenum	ND	mg/L	9E-06						
Nickel	ND	mg/L	3E-05						
Uranium	4E-06	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Zinc	0.0001	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104758			07/23/08 12:34		
Aluminum	0.0509	mg/L	0.0010	102	85	115			
Arsenic	0.0497	mg/L	0.0010	99	85	115			
Barium	0.0490	mg/L	0.0010	98	85	115			
Cadmium	0.0506	mg/L	0.0010	101	85	115			
Chromium	0.0503	mg/L	0.0010	101	85	115			
Copper	0.0512	mg/L	0.0010	102	85	115			
Lead	0.0492	mg/L	0.0010	98	85	115			
Manganese	0.0495	mg/L	0.0010	99	85	115			
Mercury	0.00498	mg/L	0.0010	100	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0499	mg/L	0.0010	100	85	115			
Uranium	0.0488	mg/L	0.00030	98	85	115			
Vanadium	0.0492	mg/L	0.0010	98	85	115			
Zinc	0.0533	mg/L	0.0010	106	85	115			
Sample ID: R08070115-005C	Post Digestion Spike			Run: SUB-C104758			07/24/08 08:23		
Aluminum	0.0537	mg/L	0.10	105	70	130			
Arsenic	0.0485	mg/L	0.0010	97	70	130			
Barium	0.0765	mg/L	0.10	96	70	130			
Cadmium	0.0455	mg/L	0.010	91	70	130			
Chromium	0.0460	mg/L	0.050	92	70	130			
Copper	0.0480	mg/L	0.010	95	70	130			
Lead	0.0490	mg/L	0.050	98	70	130			
Manganese	0.0553	mg/L	0.010	95	70	130			
Mercury	0.00565	mg/L	0.0010	113	70	130			
Molybdenum	0.0565	mg/L	0.10	96	70	130			
Nickel	0.0473	mg/L	0.050	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: R08070115-005C	Post Digestion Spike			Run: SUB-C104758			07/24/08 08:23		
Thorium 232	0.0490	mg/L	0.0010	98	70	130			
Uranium	0.0489	mg/L	0.00030	98	70	130			
Vanadium	0.0475	mg/L	0.10	95	70	130			
Zinc	0.0476	mg/L	0.010	93	70	130			
Sample ID: R08070115-005C	Post Digestion Spike Duplicate			Run: SUB-C104758			07/24/08 08:30		
Aluminum	0.0549	mg/L	0.10	107	70	130	0	20	
Arsenic	0.0484	mg/L	0.0010	97	70	130	0.3	20	
Barium	0.0764	mg/L	0.10	96	70	130	0	20	
Cadmium	0.0459	mg/L	0.010	92	70	130	0.9	20	
Chromium	0.0463	mg/L	0.050	93	70	130	0	20	
Copper	0.0484	mg/L	0.010	96	70	130	0.9	20	
Lead	0.0491	mg/L	0.050	98	70	130	0	20	
Manganese	0.0556	mg/L	0.010	95	70	130	0.6	20	
Mercury	0.00533	mg/L	0.0010	106	70	130	5.9	20	
Molybdenum	0.0569	mg/L	0.10	96	70	130	0	20	
Nickel	0.0479	mg/L	0.050	96	70	130	0	20	
Thorium 232	0.0494	mg/L	0.0010	99	70	130	1	20	
Uranium	0.0493	mg/L	0.00030	98	70	130	0.8	20	
Vanadium	0.0481	mg/L	0.10	96	70	130	0	20	
Zinc	0.0493	mg/L	0.010	96	70	130	3.5	20	
Sample ID: LRB	Method Blank			Run: SUB-C104758			07/23/08 12:27		
Thorium 232	3E-05	mg/L							
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104758			07/23/08 12:34		
Thorium 232	0.0485	mg/L	0.0010	97	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: LRB	Method Blank			Run: SUB-C104869			07/25/08 17:21		
Arsenic	ND	mg/L	4E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	3E-06						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	3E-05						
Iron	ND	mg/L	0.0002						
Lead	ND	mg/L	3E-06						
Manganese	ND	mg/L	6E-06						
Mercury	8E-05	mg/L	1E-05						
Molybdenum	ND	mg/L	9E-06						
Nickel	ND	mg/L	3E-05						
Uranium	ND	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Zinc	0.0002	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104869			07/25/08 17:28		
Arsenic	0.0515	mg/L	0.0010	103	85	115			
Barium	0.0513	mg/L	0.0010	102	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Chromium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0520	mg/L	0.0010	104	85	115			
Iron	1.30	mg/L	0.0010	87	85	115			
Lead	0.0514	mg/L	0.0010	103	85	115			
Manganese	0.0516	mg/L	0.0010	103	85	115			
Mercury	0.00522	mg/L	0.0010	103	85	115			
Molybdenum	0.0492	mg/L	0.0010	98	85	115			
Nickel	0.0514	mg/L	0.0010	103	85	115			
Uranium	0.0473	mg/L	0.00030	95	85	115			
Vanadium	0.0513	mg/L	0.0010	102	85	115			
Zinc	0.0545	mg/L	0.0010	109	85	115			
Sample ID: R08070115-001C	Post Digestion Spike			Run: SUB-C104869			07/26/08 02:58		
Arsenic	0.0487	mg/L	0.0010	93	70	130			
Barium	0.0884	mg/L	0.10	100	70	130			
Cadmium	0.0498	mg/L	0.010	100	70	130			
Chromium	0.0436	mg/L	0.050	87	70	130			
Copper	0.0444	mg/L	0.010	89	70	130			
Iron	1.19	mg/L	0.030	373	70	130			S
Lead	0.0503	mg/L	0.050	100	70	130			
Manganese	0.202	mg/L	0.010	103	70	130			
Mercury	0.00503	mg/L	0.0010	101	70	130			
Molybdenum	0.0509	mg/L	0.10	100	70	130			
Nickel	0.0464	mg/L	0.050	89	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: R08070115-001C	Post Digestion Spike			Run: SUB-C104869			07/26/08 02:58		
Thorium 232	0.0536	mg/L	0.0010	107	70	130			
Uranium	0.0663	mg/L	0.00030	108	70	130			
Vanadium	0.0461	mg/L	0.10	92	70	130			
Zinc	0.0480	mg/L	0.010	92	70	130			
Sample ID: R08070115-001C	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 03:04		
Arsenic	0.0497	mg/L	0.0010	95	70	130	2.2	20	
Barium	0.0901	mg/L	0.10	103	70	130	0	20	
Cadmium	0.0513	mg/L	0.010	103	70	130	3	20	
Chromium	0.0451	mg/L	0.050	90	70	130	0	20	
Copper	0.0458	mg/L	0.010	91	70	130	3	20	
Iron	1.20	mg/L	0.030	378	70	130	1.3	20	S
Lead	0.0526	mg/L	0.050	105	70	130	4.4	20	
Manganese	0.203	mg/L	0.010	106	70	130	0.6	20	
Mercury	0.00528	mg/L	0.0010	106	70	130	4.8	20	
Molybdenum	0.0530	mg/L	0.10	104	70	130	0	20	
Nickel	0.0475	mg/L	0.050	91	70	130	0	20	
Thorium 232	0.0558	mg/L	0.0010	112	70	130	4	20	
Uranium	0.0682	mg/L	0.00030	111	70	130	2.8	20	
Vanadium	0.0473	mg/L	0.10	95	70	130	0	20	
Zinc	0.0498	mg/L	0.010	95	70	130	3.8	20	
Sample ID: C08070597-001AMS4	Post Digestion Spike			Run: SUB-C104869			07/26/08 06:13		
Arsenic	0.0519	mg/L	0.0010	103	70	130			
Barium	0.0621	mg/L	0.10	103	70	130			
Cadmium	0.0476	mg/L	0.010	93	70	130			
Chromium	0.0502	mg/L	0.050	100	70	130			
Copper	0.0480	mg/L	0.010	95	70	130			
Iron	1.30	mg/L	0.030	406	70	130			S
Lead	0.0508	mg/L	0.050	101	70	130			
Manganese	2.21	mg/L	0.010		70	130			A
Mercury	0.00560	mg/L	0.0010	111	70	130			
Molybdenum	0.0566	mg/L	0.10	103	70	130			
Nickel	0.0622	mg/L	0.050	96	70	130			
Thorium 232	0.0541	mg/L	0.0010	108	70	130			
Uranium	0.116	mg/L	0.00030	101	70	130			
Vanadium	0.0515	mg/L	0.10	103	70	130			
Zinc	0.0552	mg/L	0.010	93	70	130			
Sample ID: C08070597-001AMSD4	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 06:20		
Arsenic	0.0492	mg/L	0.0010	98	70	130	5.3	20	
Barium	0.0620	mg/L	0.10	103	70	130	0	20	
Cadmium	0.0482	mg/L	0.010	95	70	130	1.3	20	
Chromium	0.0462	mg/L	0.050	92	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: C08070597-001AMSD4	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 06:20		
Copper	0.0452	mg/L	0.010	90	70	130	6	20	
Iron	1.42	mg/L	0.030	442	70	130	8.3	20	S
Lead	0.0511	mg/L	0.050	102	70	130	0.6	20	
Manganese	2.20	mg/L	0.010		70	130	0.1	20	A
Mercury	0.00559	mg/L	0.0010	110	70	130	0.3	20	
Molybdenum	0.0572	mg/L	0.10	104	70	130	0	20	
Nickel	0.0623	mg/L	0.050	96	70	130	0.2	20	
Thorium 232	0.0550	mg/L	0.0010	109	70	130	1.5	20	
Uranium	0.117	mg/L	0.00030	103	70	130	0.9	20	
Vanadium	0.0484	mg/L	0.10	97	70	130	0	20	
Zinc	0.0495	mg/L	0.010	82	70	130	11	20	
Sample ID: LRB	Method Blank			Run: SUB-C104869			07/25/08 17:21		
Thorium 232	4E-05	mg/L							
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104869			07/25/08 17:28		
Thorium 232	0.0473	mg/L	0.0010	95	85	115			

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105057		
Sample ID: LRB	Method Blank			Run: SUB-C105057			07/29/08 12:44		
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Manganese	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Vanadium	4E-05	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C105057			07/29/08 12:51		
Cadmium	0.0498	mg/L	0.0010	100	85	115			
Chromium	0.0483	mg/L	0.0010	97	85	115			
Manganese	0.0486	mg/L	0.0010	97	85	115			
Nickel	0.0495	mg/L	0.0010	99	85	115			
Silver	0.0194	mg/L	0.0010	97	85	115			
Vanadium	0.0488	mg/L	0.0010	97	85	115			
Zinc	0.0508	mg/L	0.0010	102	85	115			
Sample ID: C08070597-004AMS4	Post Digestion Spike			Run: SUB-C105057			07/29/08 20:11		
Cadmium	0.0509	mg/L	0.010	102	70	130			
Chromium	0.0509	mg/L	0.050	101	70	130			
Manganese	0.0528	mg/L	0.010	101	70	130			
Nickel	0.0495	mg/L	0.050	97	70	130			
Silver	0.0121	mg/L	0.010	61	70	130			S
Vanadium	0.0515	mg/L	0.10	102	70	130			
Zinc	0.0755	mg/L	0.010	104	70	130			
Sample ID: C08070597-004AMSD4	Post Digestion Spike Duplicate			Run: SUB-C105057			07/29/08 20:18		
Cadmium	0.0504	mg/L	0.010	101	70	130	1	20	
Chromium	0.0486	mg/L	0.050	96	70	130	0	20	
Manganese	0.0502	mg/L	0.010	96	70	130	4.9	20	
Nickel	0.0487	mg/L	0.050	96	70	130	0	20	
Silver	0.0134	mg/L	0.010	67	70	130	9.6	20	S
Vanadium	0.0483	mg/L	0.10	96	70	130	0	20	
Zinc	0.0736	mg/L	0.010	100	70	130	2.5	20	

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_33468		
Sample ID: MB-33468	Method Blank								Run: SUB-B113943 07/11/08 15:24
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33468	Laboratory Fortified Blank								Run: SUB-B113943 07/11/08 15:36
Mercury	0.0040	mg/L	0.0010	100	85	115			
Sample ID: B08070660-001HMS	Sample Matrix Spike								Run: SUB-B113943 07/11/08 15:41
Mercury	0.0041	mg/L	0.0010	102	70	130			
Sample ID: B08070660-001HMSD	Sample Matrix Spike Duplicate								Run: SUB-B113943 07/11/08 15:43
Mercury	0.0043	mg/L	0.0010	107	70	130	5.3	30	
Method: E245.1							Batch: B_33469		
Sample ID: MB-33469	Method Blank								Run: SUB-B113943 07/11/08 16:53
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33469	Laboratory Fortified Blank								Run: SUB-B113943 07/11/08 16:55
Mercury	0.0019	mg/L	0.0010	93	85	115			
Sample ID: B08071042-002DMS	Sample Matrix Spike								Run: SUB-B113943 07/11/08 17:00
Mercury	0.0019	mg/L	0.0010	93	70	130			
Sample ID: B08071042-002DMSD	Sample Matrix Spike Duplicate								Run: SUB-B113943 07/11/08 17:02
Mercury	0.0020	mg/L	0.0010	100	70	130	7.8	30	
Method: E245.1							Analytical Run: SUB-B113943		
Sample ID: QCS	Initial Calibration Verification Standard								07/11/08 15:17
Mercury	0.0020	mg/L	0.0010	102	90	110			
Method: E245.1							Batch: C_B_33540		
Sample ID: MB-33540	Method Blank								Run: SUB-C104653 07/21/08 09:03
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33540	Laboratory Fortified Blank								Run: SUB-C104653 07/21/08 09:05
Mercury	0.0018	mg/L	0.0010	90	85	115			
Sample ID: B08071382-002AMS	Sample Matrix Spike								Run: SUB-C104653 07/21/08 10:02
Mercury	0.0024	mg/L	0.0010	110	70	130			
Sample ID: B08071382-002AMSD	Sample Matrix Spike Duplicate								Run: SUB-C104653 07/21/08 10:04
Mercury	0.0024	mg/L	0.0010	109	70	130	0.4	30	

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R35925		
Sample ID: LFB0807081629-3	Laboratory Fortified Blank			Run: DIONEX_080708A			07/08/08 18:20		
Chloride	4.61	mg/L	0.50	92	90	110			
Fluoride	1.89	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.28	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0807081629-4	Laboratory Fortified Blank			Run: DIONEX_080708A			07/08/08 18:36		
Chloride	4.58	mg/L	0.50	92	90	110			
Fluoride	1.90	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: R08070115-005AMS	Sample Matrix Spike			Run: DIONEX_080708A			07/08/08 22:42		
Chloride	249	mg/L	5.4	71	80	120			S
Fluoride	94.1	mg/L	0.56	87	80	120			
Nitrogen, Nitrate as N	111	mg/L	1.3	89	80	120			
Nitrogen, Nitrite as N	117	mg/L	2.9	93	80	120			
Sulfate	1420	mg/L	3.4	82	80	120			
Sample ID: R08070115-005AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080708A			07/08/08 22:59		
Chloride	247	mg/L	5.4	70	80	120	0.8	10	S
Fluoride	93.6	mg/L	0.56	87	80	120	0.5	10	
Nitrogen, Nitrate as N	111	mg/L	1.3	88	80	120	0.5	10	
Nitrogen, Nitrite as N	116	mg/L	2.9	93	80	120	0.4	10	
Sulfate	1400	mg/L	3.4	79	80	120	1.6	10	S
Method: E300.0							Batch: R35984		
Sample ID: LFB0807113912-3	Laboratory Fortified Blank			Run: DIONEX_080711A			07/11/08 12:14		
Chloride	4.72	mg/L	0.50	94	90	110			
Sample ID: LFB0807113912-4	Laboratory Fortified Blank			Run: DIONEX_080711A			07/11/08 12:30		
Chloride	4.73	mg/L	0.50	95	90	110			
Sample ID: R08070043-006HMS	Sample Matrix Spike			Run: DIONEX_080711A			07/11/08 23:11		
Chloride	926	mg/L	5.4	114	80	120			
Sample ID: R08070043-006HMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080711A			07/11/08 23:27		
Chloride	917	mg/L	5.4	111	80	120	1	10	

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0496		
Sample ID: MB-GrAB-0496	Method Blank				Run: SUB-C105636			08/09/08 00:01	
Gross Alpha	-0.04	pCi/L							U
Gross Beta	-2	pCi/L							U
Sample ID: UNAT-GrAB-0496	Laboratory Control Sample				Run: SUB-C105636			08/09/08 00:01	
Gross Alpha	140	pCi/L	104	70	130				
Sample ID: Cs137-GrAB-0496	Laboratory Control Sample				Run: SUB-C105636			08/09/08 00:01	
Gross Beta	91	pCi/L	99	70	130				
Sample ID: C08071218-007DMS	Sample Matrix Spike				Run: SUB-C105636			08/09/08 00:01	
Gross Alpha	149	pCi/L	90	70	130				
Sample ID: C08071218-007DMSD	Sample Matrix Spike Duplicate				Run: SUB-C105636			08/09/08 00:01	
Gross Alpha	158	pCi/L	96	70	130	5.8	19.9		
Sample ID: C08071218-007DMS	Sample Matrix Spike				Run: SUB-C105636			08/09/08 00:01	
Gross Beta	113	pCi/L	91	70	130				
Sample ID: C08071218-007DMSD	Sample Matrix Spike Duplicate				Run: SUB-C105636			08/09/08 00:01	
Gross Beta	117	pCi/L	95	70	130	2.9	15.8		
Method: E900.0							Batch: C_GrAB-0509		
Sample ID: MB-GrAB-0509	Method Blank				Run: SUB-C106863			08/30/08 03:22	
Gross Alpha	0.5	pCi/L							
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0509	Laboratory Control Sample				Run: SUB-C106863			08/30/08 03:22	
Gross Alpha	110	pCi/L	77	70	130				
Sample ID: C08071077-001JMS	Sample Matrix Spike				Run: SUB-C106863			08/30/08 03:22	
Gross Alpha	120	pCi/L	89	70	130				
Sample ID: C08071077-001JMSD	Sample Matrix Spike Duplicate				Run: SUB-C106863			08/30/08 03:22	
Gross Alpha	140	pCi/L	100	70	130	11	17.2		
Sample ID: Cs137-GrAB-0509	Laboratory Control Sample				Run: SUB-C106863			08/30/08 03:22	
Gross Beta	90	pCi/L	99	70	130				
Sample ID: C08071077-001JMS	Sample Matrix Spike				Run: SUB-C106863			08/30/08 03:22	
Gross Beta	94	pCi/L	104	70	130				
Sample ID: C08071077-001JMSD	Sample Matrix Spike Duplicate				Run: SUB-C106863			08/30/08 22:33	
Gross Beta	77	pCi/L	86	70	130	20	16.5	R	

- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc

Report Date: 09/12/08

Project: Edgemont

Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample				Run: SUB-C104840			07/17/08 13:12	
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840	Method Blank				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	ND	pCi/L						U	
Sample ID: C08061394-007HDUP	Sample Duplicate				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	ND	pCi/L	20				0	30	
Method: E903.0							Batch: C_19224		
Sample ID: C08070719-001EMS	Sample Matrix Spike				Run: SUB-C105486			08/06/08 15:36	
Radium 226	140	pCi/L		87	70	130			
Sample ID: C08070719-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C105486			08/06/08 15:36	
Radium 226	130	pCi/L		79	70	130	7.8	29.9	
Sample ID: MB-19224	Method Blank				Run: SUB-C105486			08/06/08 17:08	
Radium 226	-2	pCi/L						U	
Sample ID: LCS-19224	Laboratory Control Sample				Run: SUB-C105486			08/06/08 17:08	
Radium 226	58	pCi/L		76	70	130			
Method: E903.0							Batch: C_RA226-2961		
Sample ID: MB-RA226-2961	Method Blank				Run: SUB-C105461			08/06/08 08:16	
Radium 226	-0.08	pCi/L						U	
Sample ID: LCS-RA226-2961	Laboratory Control Sample				Run: SUB-C105461			08/06/08 08:16	
Radium 226	16	pCi/L		100	70	130			
Sample ID: C08070540-001EMS	Sample Matrix Spike				Run: SUB-C105461			07/29/08 00:00	
Radium 226	16	pCi/L		103	70	130			
Sample ID: C08070540-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C105461			07/29/08 00:00	
Radium 226	16	pCi/L		104	70	130	0.9	30	

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_19224		
Sample ID: C08070680-001IMS Thorium 230	Sample Matrix Spike 19.8	pCi/L	0.20	88	70	130			08/04/08 22:05
									Run: SUB-C105794
Sample ID: C08070680-001IMSD Thorium 230	Sample Matrix Spike Duplicate 23.7	pCi/L	0.20	103	70	130	18	30	08/04/08 22:05
									Run: SUB-C105794
Sample ID: LCS-19224 Thorium 230	Laboratory Control Sample 44.9	pCi/L	0.20	92	70	130			08/05/08 12:51
									Run: SUB-C105794
Sample ID: MB-19224 Thorium 230	Method Blank 0.04	pCi/L							08/05/08 12:51 U
									Run: SUB-C105794
Method: E907.0							Batch: C_RA-TH-ISO-0592		
Sample ID: LCS-RA-TH-ISO-0592 Thorium 230	Laboratory Control Sample 6.23	pCi/L	0.20	103	70	130			08/10/08 16:42
									Run: SUB-C105766
Sample ID: R08070115-006H Thorium 230	Sample Matrix Spike 17.2	pCi/L	0.20	105	70	130			08/10/08 16:46
									Run: SUB-C105766
Sample ID: R08070115-006H Thorium 230	Sample Matrix Spike Duplicate 16.0	pCi/L	0.20	98	70	130	7.3	30	08/10/08 16:47
									Run: SUB-C105766
Sample ID: MB-RA-TH-ISO-0592 Thorium 230	Method Blank -0.05	pCi/L							08/08/08 23:51 U
									Run: SUB-C105766
Method: E909.0M							Batch: C_19224		
Sample ID: R08070115-007I Lead 210	Sample Matrix Spike 930	pCi/L		79	70	130			07/29/08 09:30
									Run: SUB-C106081
Sample ID: R08070115-007I Lead 210	Sample Matrix Spike Duplicate 1400	pCi/L		117	70	130	39	30	07/29/08 09:30 R
									Run: SUB-C106081
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R106081 Lead 210	Method Blank 5	pCi/L							07/29/08 09:30 U
									Run: SUB-C106081
Sample ID: LCS-R106081 Lead 210	Laboratory Control Sample 110	pCi/L		87	70	130			07/29/08 09:30
									Run: SUB-C106081

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 09/12/08
 Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R105847		
Sample ID: R08070115-001H	Sample Matrix Spike				Run: SUB-C105847		07/24/08 08:45		
Lead 210	560	pCi/L	91		70	130			
Sample ID: R08070115-001H	Sample Matrix Spike Duplicate				Run: SUB-C105847		07/24/08 08:45		
Lead 210	590	pCi/L	96		70	130	5.4	30	
Sample ID: MB-R105847	Method Blank				Run: SUB-C105847		07/24/08 08:45		
Lead 210	5	pCi/L							U
Sample ID: LCS-R105847	Laboratory Control Sample				Run: SUB-C105847		07/24/08 08:45		
Lead 210	130	pCi/L	106		70	130			
Sample ID: R08070115-005H	Sample Duplicate				Run: SUB-C105847		07/24/08 08:45		
Lead 210	6.3	pCi/L					110	30	UR
Lead 210 MDC	7.9	pCi/L							
- High RPD is irrelevant since both samples are below the MDC.									
Method: RMO-3008							Batch: C_19224		
Sample ID: C08070737-009IMS	Sample Matrix Spike				Run: SUB-C105583		07/31/08 14:15		
Polonium 210	50	pCi/L	1.0	119	70	130			
Sample ID: C08070737-009IMSD	Sample Matrix Spike Duplicate				Run: SUB-C105583		07/31/08 14:15		
Polonium 210	44	pCi/L	1.0	104	70	130	14	30	
Sample ID: LCS-R105583	Laboratory Control Sample				Run: SUB-C105583		07/31/08 14:15		
Polonium 210	80	pCi/L	1.0	93	70	130			
Sample ID: MB-R105583	Method Blank				Run: SUB-C105583		07/31/08 14:15		
Polonium 210	0.2	pCi/L							U
Method: RMO-3008							Batch: C_R106670		
Sample ID: R08070115-004H	Sample Matrix Spike				Run: SUB-C106670		08/21/08 17:30		
Polonium 210	80	pCi/L	1.0	72	70	130			
Sample ID: R08070115-004H	Sample Matrix Spike Duplicate				Run: SUB-C106670		08/21/08 17:30		
Polonium 210	95	pCi/L	1.0	84	70	130	17	30	
Sample ID: LCS-R106670	Laboratory Control Sample				Run: SUB-C106670		08/21/08 17:30		
Polonium 210	42	pCi/L	1.0	76	70	130			
Sample ID: MB-R106670	Method Blank				Run: SUB-C106670		08/21/08 17:30		
Polonium 210	0.1	pCi/L							U

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QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070115

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A									Analytical Run: SUB-C104653
Sample ID: QCS	Initial Calibration Verification Standard								07/21/08 08:38
Mercury	0.0020	mg/L	0.0010	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: PEREZ		Project Name, PWS, Permit, Etc. Poweshel Denny Bank		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Cory Foreman	Phone/Fax:	Email:	Sampler: (Please Print) Eric Vranke
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quoter/Bottle Order:
Special Report/Formats - ELL must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	
1 Dewburd GW 682		7/7/08	13:39	W	
2 Dewburd GW 680		7/7/08	13:29	W	
3 Dewburd GW 682		7/7/08	15:22	W	
4 Dewburd GW 684		7/7/08	17:22	W	
5 Dewburd GW 690		7/7/08	18:10	W	
6 Dewburd GW 688		7/7/08	18:58	W	
7 Dewburd GW 686		7/7/08	18:5	W	
8 Dewburd GW 688		7/7/08	18:49	W	
9 Dewburd GW 686		7/7/08	19:03	W	
10					
Custody Record MUST be Signed		Relinquished by (print): Eric Vranke	Date/Time: 7/8/08 0950	Signature: <i>[Signature]</i>	Received by Laboratory: Steve Froland
Sample Disposal: Return to Client:		Lab Disposal:		Date/Time:	Signature:

As per Quote

SEE ATTACHED
Normal Turnaround (TAT)

RUSH

Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:

Received Temp
5.3 °C
On Ice: Yes No

Shipped by:
Cooler ID#:

Custody Seal Intact Y N
Signature Match Y N

LABORATORY USE ONLY

808070115001

002

003

004

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In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 01, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08070220 Quote ID: R286

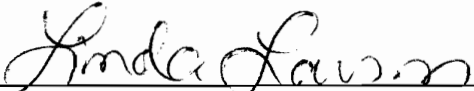
Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 7/14/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070220-001	DewBurd GW3026	07/13/08 15:28	07/14/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070220-001
 Client Sample ID: DewBurd GW3026

Report Date: 10/01/08
 Collection Date: 07/13/08 15:28
 Date Received: 07/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	184	mg/L		5		1	A2320 B	07/15/08 17:41/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 17:41/mb
Bicarbonate as HCO3	224	mg/L		5		1	A2320 B	07/15/08 17:41/mb
Calcium	466	mg/L		0.5		1	E200.7	07/22/08 16:48/eli-c
Chloride	15	mg/L		1		1	E300.0	07/16/08 10:34/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/16/08 10:34/jmh
Magnesium	138	mg/L		0.5		1	E200.7	07/22/08 16:48/eli-c
Nitrogen, Ammonia as N	0.7	mg/L		0.1		1	A4500-NH3 G	07/17/08 15:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 10:34/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 10:34/jmh
Potassium	30.6	mg/L		0.5		1	E200.7	07/22/08 16:48/eli-c
Silica	1.4	mg/L		0.5		1	E200.7	07/22/08 16:48/eli-c
Sodium	168	mg/L		0.5		1	E200.7	07/22/08 16:48/eli-c
Sulfate	1700	mg/L	D	3		50	E300.0	07/16/08 09:45/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3070	umhos/cm		5.0		1	A2510 B	07/17/08 10:22/tb
Oxidation-Reduction Potential	-15.5	mV				1	A2580 B	07/16/08 00:00/kh
pH	6.57	s.u.		0.01		1	A4500-H B	07/16/08 15:44/tb
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.10		1	Calculation	09/24/08 08:30/ADM
Solids, Total Dissolved TDS @ 180 C	2800	mg/L		5		1	A2540 C	07/14/08 15:38/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/26/08 07:52/eli-c
Arsenic	0.016	mg/L		0.001		1	E200.8	07/26/08 07:52/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 07:52/eli-c
Boron	0.1	mg/L		0.1		1	E200.7	07/22/08 16:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 07:52/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/26/08 07:52/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/26/08 07:52/eli-c
Iron	21.2	mg/L		0.03		1	E200.7	07/22/08 16:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/26/08 07:52/eli-c
Manganese	1.47	mg/L		0.01		1	E200.8	07/26/08 07:52/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/26/08 07:52/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/26/08 07:52/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/26/08 07:52/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/05/08 17:17/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/31/08 18:07/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/26/08 07:52/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070220-001
 Client Sample ID: DewBurd GW3026

Report Date: 10/01/08
 Collection Date: 07/13/08 15:28
 Date Received: 07/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0128	mg/L		0.0003		1	E200.8	07/26/08 07:52/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/26/08 07:52/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	07/26/08 07:52/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/27/08 03:57/eli-c
METALS - SPECIATED								
Selenium-IV	0.001	mg/L		0.001		1	A3114 B	08/05/08 15:17/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/05/08 17:40/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	80.1	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Alpha precision (±)	11.8	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Alpha MDC	10.4	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta	32.6	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta precision (±)	7.2	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Gross Beta MDC	11.0	pCi/L				1	E900.0	08/09/08 12:18/eli-c
Lead 210	3.1	pCi/L	U			1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.6	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.46	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	10.1	pCi/L				1	E903.0	08/06/08 12:47/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	08/06/08 12:47/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	08/08/08 23:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/08/08 23:51/eli-c
Gross Gamma	1000	pCi/L		20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	200	pCi/L				1	E901.1	07/17/08 13:12/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. This value should not be used for regulatory reporting purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-10	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.6	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	08/06/08 13:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/06/08 13:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070220-001
 Client Sample ID: DewBurd GW3026

Report Date: 10/01/08
 Collection Date: 07/13/08 15:28
 Date Received: 07/14/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 13:33/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	08/04/08 22:05/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. This value should not be used for regulatory reporting purposes.							
RADIONUCLIDES - TOTAL							
Radon 222	560	pCi/L		100		1 D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	63.0	pCi/L				1 D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	08/01/08 01:01/eli-c
Arsenic	0.044	mg/L		0.001		10 E200.8	08/01/08 01:01/eli-c
Barium	ND	mg/L		0.1		10 E200.8	08/01/08 01:01/eli-c
Beryllium	0.001	mg/L		0.001		10 E200.8	08/01/08 01:01/eli-c
Boron	0.3	mg/L		0.1		2 E200.7	07/18/08 12:52/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	08/01/08 01:01/eli-c
Chromium	ND	mg/L		0.05		10 E200.8	08/01/08 01:01/eli-c
Copper	0.01	mg/L		0.01		10 E200.8	08/01/08 01:01/eli-c
Iron	22.0	mg/L		0.03		2 E200.7	07/18/08 12:52/eli-c
Lead	ND	mg/L		0.001		10 E200.8	08/01/08 01:01/eli-c
Manganese	1.57	mg/L		0.01		10 E200.8	08/02/08 02:35/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/23/08 08:42/eli-b
Mercury	ND	mg/L		0.0001		1 E245.1	07/22/08 10:48/eli-b
Molybdenum	ND	mg/L		0.1		10 E200.8	08/01/08 01:01/eli-c
Nickel	ND	mg/L		0.05		10 E200.8	08/01/08 01:01/eli-c
Selenium	ND	mg/L		0.001		10 E200.8	08/01/08 01:01/eli-c
Silver	ND	mg/L		0.005		10 E200.8	08/02/08 02:35/eli-c
Strontium	7.7	mg/L		0.1		10 E200.8	08/01/08 01:01/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	08/01/08 01:01/eli-c
Uranium	0.0151	mg/L		0.0003		10 E200.8	08/01/08 01:01/eli-c
Zinc	0.03	mg/L		0.01		10 E200.8	08/01/08 01:01/eli-c
DATA QUALITY							
A/C Balance (± 5)	5.04	%				1 A1030 E	09/24/08 00:00/jmh
Anions	39.4	meq/L				1 A1030 E	09/24/08 00:00/jmh
Cations	43.6	meq/L				1 A1030 E	09/24/08 00:00/jmh
Solids, Total Dissolved Calculated	2630	mg/L				1 A1030 E	09/24/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06					1 A1030 E	09/24/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080715A-ALK-SEL-W		
Sample ID: LCS1_080715A	Laboratory Control Sample					Run: PH_COND1-R_080715A			07/15/08 14:16
Alkalinity, Total as CaCO3	952	mg/L	5.0	95	90	110			
Sample ID: MBLK1_080715A	Method Blank					Run: PH_COND1-R_080715A			07/15/08 14:17
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08070173-004AMS	Sample Matrix Spike					Run: PH_COND1-R_080715A			07/15/08 17:15
Alkalinity, Total as CaCO3	278	mg/L	5.0	102	80	120			
Sample ID: R08070173-004AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_080715A			07/15/08 17:20
Alkalinity, Total as CaCO3	282	mg/L	5.0	106	80	120	1.4	10	
Sample ID: R08070238-005AMS	Sample Matrix Spike					Run: PH_COND1-R_080715A			07/15/08 18:02
Alkalinity, Total as CaCO3	274	mg/L	5.0	102	80	120			
Sample ID: R08070238-005AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_080715A			07/15/08 18:03
Alkalinity, Total as CaCO3	276	mg/L	5.0	104	80	120	0.7	10	
Method: A2510 B							Batch: 080717_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080717	Laboratory Control Sample					Run: PH_COND2-R_080717B			07/17/08 10:06
Conductivity @ 25 C	1420	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_080717	Laboratory Control Sample					Run: PH_COND2-R_080717B			07/17/08 10:06
Conductivity @ 25 C	156	umhos/cm	5.0	104	90	110			
Sample ID: LCS2-1_080717	Laboratory Control Sample					Run: PH_COND2-R_080717B			07/17/08 10:08
Conductivity @ 25 C	4940	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_080717	Method Blank					Run: PH_COND2-R_080717B			07/17/08 10:42
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C							Batch: 080714A-SLDS-TDS-W		
Sample ID: R08070211-006BMS	Sample Matrix Spike					Run: BAL-4-R_080710B			07/14/08 15:32
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	104	80	120			
Sample ID: R08070211-006BMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080710B			07/14/08 15:33
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	102	80	120	0.4	10	
Method: A2580 B							Batch: 080716-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_080716A			07/16/08 00:00
Oxidation-Reduction Potential	470	mV		100	95	105			
Sample ID: R08070220-001F	Sample Duplicate					Run: PH_COND1-R_080716A			07/16/08 00:00
Oxidation-Reduction Potential	ND	mV					0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 10/01/08

Project: Edgemont

Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080805B		
Sample ID: MBLK Selenium-IV	Method Blank ND mg/L		6E-05			Run: SUB-C105358			08/05/08 14:47
Sample ID: 288-114-6 Selenium-IV	Laboratory Control Sample 0.050 mg/L		0.0010	99	90	110			08/05/08 14:49
Sample ID: C08070631-001CMS Selenium-IV	Sample Matrix Spike 0.046 mg/L		0.0010	92	85	115			08/05/08 15:22
Sample ID: C08070631-001CMSD Selenium-IV	Sample Matrix Spike Duplicate 0.046 mg/L		0.0010	93	85	115	0.9	10	08/05/08 15:24
Method: A3114 B							Batch: C_SE3114-080805C		
Sample ID: MBLK Selenium	Method Blank ND mg/L		6E-05			Run: SUB-C105366			08/05/08 16:49
Sample ID: 288-114-6 Selenium	Laboratory Control Sample 0.050 mg/L		0.0010	99	90	110			08/05/08 16:51
Sample ID: C08070547-001EMS Selenium	Sample Matrix Spike 0.053 mg/L		0.0010	102	85	115			08/05/08 16:56
Sample ID: C08070547-001EMSD Selenium	Sample Matrix Spike Duplicate 0.054 mg/L		0.0010	104	85	115	1.1	10	08/05/08 16:58
Method: A4500-H B							Batch: 080716_1_PH-W		
Sample ID: LCS_pH-1_080716 pH	Laboratory Control Sample 6.81 s.u.		0.010	99	98.55	101.45			07/16/08 15:41
Method: A4500-NH3 G							Batch: A2008-07-17_2_NH3_O2		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND mg/L		0.01			Run: TECHAA2-R_080717B			07/17/08 11:42
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24 mg/L		0.10	94	90	110			07/17/08 11:54
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26 mg/L		0.10	103	90	110			07/17/08 11:55
Sample ID: R08070237-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.21 mg/L		0.10	85	80	120			07/17/08 16:04
Sample ID: R08070237-002BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.20 mg/L		0.10	80	80	120	6.3	10	07/17/08 16:05

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92							Batch: C_R104556		
Sample ID: R08070220-001G	Sample Duplicate					Run: SUB-C104556			07/16/08 18:45
Radon 222	601	pCi/L	100				7.1	30	
Sample ID: MB-R104556	Method Blank					Run: SUB-C104556			07/16/08 18:45
Radon 222	-30	pCi/L							
Sample ID: LCS-R104556	Laboratory Control Sample					Run: SUB-C104556			07/16/08 18:45
Radon 222	302	pCi/L	100	109	70	130			
Method: E200.7							Batch: C_19148		
Sample ID: MB-19148	Method Blank					Run: SUB-C104499			07/18/08 10:27
Boron	0.04	mg/L	0.006						
Iron	0.01	mg/L	0.005						
Sample ID: LCS3-19148	Laboratory Control Sample					Run: SUB-C104499			07/18/08 10:30
Boron	0.565	mg/L	0.10	105	85	115			
Iron	2.55	mg/L	0.030	101	85	115			
Sample ID: C08070676-001HMS3	Sample Matrix Spike					Run: SUB-C104499			07/18/08 12:45
Boron	0.525	mg/L	0.10	96	70	130			
Iron	2.35	mg/L	0.030	89	70	130			
Sample ID: C08070676-001HMSD3	Sample Matrix Spike Duplicate					Run: SUB-C104499			07/18/08 12:48
Boron	0.552	mg/L	0.10	101	70	130	5	20	
Iron	2.47	mg/L	0.030	94	70	130	5.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104679		
Sample ID: MB-080722	Method Blank				Run: SUB-C104679			07/22/08 11:40	
Boron	0.06	mg/L	0.02						
Iron	0.2	mg/L	0.005						
Calcium	0.7	mg/L	0.04						
Magnesium	0.6	mg/L	0.06						
Potassium	0.6	mg/L	0.05						
Silica	ND	mg/L	0.1						
Sodium	ND	mg/L	0.07						
Silicon	ND	mg/L	0.05						
Sample ID: C08070893-002BDUP	Sample Duplicate				Run: SUB-C104679			07/23/08 01:34	
Boron	ND	mg/L	0.10				0	20	
Iron	ND	mg/L	0.030				0	20	
Calcium	0.149	mg/L	1.0				0	20	
Magnesium	ND	mg/L	1.0				0	20	
Potassium	0.551	mg/L	1.0				0	20	
Silica	ND	mg/L	0.10						
Sodium	0.164	mg/L	1.0				0	20	
Silicon	ND	mg/L	0.047				0	20	
Sample ID: C08070707-001BMS	Sample Matrix Spike				Run: SUB-C104679			07/22/08 16:56	
Boron	3.02	mg/L	0.27	96	70	130			
Iron	2.44	mg/L	0.77	98	70	130			
Silicon	2.31	mg/L	0.27	13	70	130			S
Sample ID: C08070707-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C104679			07/22/08 17:01	
Boron	2.75	mg/L	0.27	85	70	130	9.4	20	
Iron	2.34	mg/L	0.77	94	70	130	4	20	
Silicon	2.33	mg/L	0.27	14	70	130	0.9	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19148		
Sample ID: MB-19148	Method Blank		Run: SUB-C105162				08/01/08 00:20		
Antimony	0.0002	mg/L	6E-05						
Arsenic	0.02	mg/L	4E-05						
Barium	0.0001	mg/L	7E-05						
Beryllium	ND	mg/L	5E-05						
Cadmium	ND	mg/L	2E-05						
Chromium	0.006	mg/L	5E-05						
Copper	ND	mg/L	0.0004						
Lead	ND	mg/L	5E-05						
Manganese	0.0002	mg/L	3E-05						
Molybdenum	5E-05	mg/L	4E-05						
Nickel	ND	mg/L	0.0002						
Selenium	ND	mg/L	4E-05						
Silver	ND	mg/L	0.0002						
Strontium	ND	mg/L	4E-05						
Thallium	ND	mg/L	5E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.003	mg/L	0.0007						
Sample ID: LCS3-19148	Laboratory Control Sample		Run: SUB-C105162				08/01/08 00:27		
Antimony	0.526	mg/L	0.050	105	85	115			
Arsenic	0.550	mg/L	0.0010	106	85	115			
Barium	0.530	mg/L	0.10	106	85	115			
Beryllium	0.272	mg/L	0.010	109	85	115			
Cadmium	0.269	mg/L	0.010	108	85	115			
Chromium	0.517	mg/L	0.050	102	85	115			
Copper	0.516	mg/L	0.010	103	85	115			
Lead	0.513	mg/L	0.050	103	85	115			
Manganese	2.79	mg/L	0.010	112	85	115			
Molybdenum	0.501	mg/L	0.10	100	85	115			
Nickel	0.513	mg/L	0.050	103	85	115			
Selenium	0.528	mg/L	0.0010	106	85	115			
Silver	0.0294	mg/L	0.010	59	85	115			S
Strontium	0.529	mg/L	0.10	106	85	115			
Thallium	0.512	mg/L	0.10	102	85	115			
Uranium	0.555	mg/L	0.00030	111	85	115			
Zinc	0.521	mg/L	0.010	104	85	115			
Sample ID: C08070676-001HMS3	Sample Matrix Spike		Run: SUB-C105162				08/01/08 01:14		
Antimony	0.574	mg/L	0.050	115	70	130			
Arsenic	0.599	mg/L	0.0010	116	70	130			
Barium	0.638	mg/L	0.10	114	70	130			
Beryllium	0.279	mg/L	0.010	111	70	130			
Cadmium	0.287	mg/L	0.010	115	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19148		
Sample ID: C08070676-001HMS3	Sample Matrix Spike			Run: SUB-C105162			08/01/08 01:14		
Chromium	0.572	mg/L	0.050	113	70	130			
Copper	0.569	mg/L	0.010	114	70	130			
Lead	0.525	mg/L	0.050	105	70	130			
Manganese	3.00	mg/L	0.010	120	70	130			
Molybdenum	0.541	mg/L	0.10	108	70	130			
Nickel	0.570	mg/L	0.050	114	70	130			
Selenium	0.579	mg/L	0.0010	113	70	130			
Silver	0.0338	mg/L	0.010	68	70	130			S
Strontium	1.52	mg/L	0.10	147	70	130			S
Thallium	0.508	mg/L	0.10	102	70	130			
Uranium	0.586	mg/L	0.00030	113	70	130			
Zinc	0.597	mg/L	0.010	110	70	130			
Sample ID: C08070676-001HMSD3	Sample Matrix Spike Duplicate			Run: SUB-C105162			08/01/08 01:21		
Antimony	0.567	mg/L	0.050	113	70	130	1.3	20	
Arsenic	0.605	mg/L	0.0010	117	70	130	1	20	
Barium	0.628	mg/L	0.10	113	70	130	1.5	20	
Beryllium	0.280	mg/L	0.010	112	70	130	0.5	20	
Cadmium	0.285	mg/L	0.010	114	70	130	0.7	20	
Chromium	0.575	mg/L	0.050	114	70	130	0.4	20	
Copper	0.569	mg/L	0.010	114	70	130	0.1	20	
Lead	0.549	mg/L	0.050	110	70	130	4.4	20	
Manganese	3.01	mg/L	0.010	120	70	130	0.3	20	
Molybdenum	0.547	mg/L	0.10	109	70	130	1.1	20	
Nickel	0.569	mg/L	0.050	114	70	130	0.1	20	
Selenium	0.579	mg/L	0.0010	113	70	130	0	20	
Silver	0.0394	mg/L	0.010	79	70	130	15	20	
Strontium	1.54	mg/L	0.10	153	70	130	1.7	20	S
Thallium	0.539	mg/L	0.10	108	70	130	6	20	
Uranium	0.600	mg/L	0.00030	116	70	130	2.4	20	
Zinc	0.589	mg/L	0.010	109	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 10/01/08

Project: Edgemont

Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19224
Sample ID: MB-19224	Method Blank								07/27/08 03:08
Uranium	2E-05	mg/L							
Sample ID: LCS1-19224	Laboratory Control Sample								07/27/08 03:12
Uranium	0.0471	mg/L	0.00030	90	80	120			
Sample ID: R08070244-009I	Post Digestion Spike								07/27/08 04:50
Uranium	0.0115	mg/L	0.00030	92	70	130			
Sample ID: R08070244-009I	Post Digestion Spike Duplicate								07/27/08 04:54
Uranium	0.0115	mg/L	0.00030	91	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: LRB	Method Blank		Run: SUB-C104869			07/25/08 17:21			
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	4E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	3E-06						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Manganese	ND	mg/L	6E-06						
Mercury	8E-05	mg/L	1E-05						
Molybdenum	ND	mg/L	9E-06						
Nickel	ND	mg/L	3E-05						
Uranium	ND	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Zinc	0.0002	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104869			07/25/08 17:28			
Aluminum	0.0620	mg/L	0.0010	124	85	115			S
Arsenic	0.0515	mg/L	0.0010	103	85	115			
Barium	0.0513	mg/L	0.0010	102	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Chromium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0520	mg/L	0.0010	104	85	115			
Lead	0.0514	mg/L	0.0010	103	85	115			
Manganese	0.0516	mg/L	0.0010	103	85	115			
Mercury	0.00522	mg/L	0.0010	103	85	115			
Molybdenum	0.0492	mg/L	0.0010	98	85	115			
Nickel	0.0514	mg/L	0.0010	103	85	115			
Uranium	0.0473	mg/L	0.00030	95	85	115			
Vanadium	0.0513	mg/L	0.0010	102	85	115			
Zinc	0.0545	mg/L	0.0010	109	85	115			
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104869			07/25/08 17:28			
Thorium 232	0.0473	mg/L	0.0010	95	85	115			
Sample ID: R08070220-001C	Post Digestion Spike		Run: SUB-C104869			07/26/08 07:58			
Aluminum	0.0458	mg/L	0.10	92	70	130			
Arsenic	0.0671	mg/L	0.0010	101	70	130			
Barium	0.0654	mg/L	0.10	102	70	130			
Cadmium	0.0474	mg/L	0.010	95	70	130			
Chromium	0.0489	mg/L	0.050	98	70	130			
Copper	0.0513	mg/L	0.010	92	70	130			
Lead	0.0502	mg/L	0.050	100	70	130			
Manganese	1.51	mg/L	0.010		70	130			A
Mercury	0.00539	mg/L	0.0010	108	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: R08070220-001C	Post Digestion Spike			Run: SUB-C104869			07/26/08 07:58		
Molybdenum	0.0692	mg/L	0.10	99	70	130			
Nickel	0.0601	mg/L	0.050	96	70	130			
Thorium 232	0.0532	mg/L	0.0010	106	70	130			
Uranium	0.0669	mg/L	0.00030	108	70	130			
Vanadium	0.0503	mg/L	0.10	101	70	130			
Zinc	0.0555	mg/L	0.010	90	70	130			
Sample ID: R08070220-001C	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 08:05		
Aluminum	0.0459	mg/L	0.10	92	70	130	0	20	
Arsenic	0.0627	mg/L	0.0010	92	70	130	6.9	20	
Barium	0.0658	mg/L	0.10	102	70	130	0	20	
Cadmium	0.0476	mg/L	0.010	95	70	130	0.4	20	
Chromium	0.0452	mg/L	0.050	90	70	130	0	20	
Copper	0.0478	mg/L	0.010	85	70	130	7	20	
Lead	0.0505	mg/L	0.050	101	70	130	0.6	20	
Manganese	1.52	mg/L	0.010	70	130	130	0.8	20	A
Mercury	0.00553	mg/L	0.0010	111	70	130	2.6	20	
Molybdenum	0.0686	mg/L	0.10	98	70	130	0	20	
Nickel	0.0586	mg/L	0.050	93	70	130	2.5	20	
Thorium 232	0.0534	mg/L	0.0010	107	70	130	0.5	20	
Uranium	0.0669	mg/L	0.00030	108	70	130	0	20	
Vanadium	0.0468	mg/L	0.10	94	70	130	0	20	
Zinc	0.0501	mg/L	0.010	79	70	130	10	20	
Method: E200.8							Batch: C_R105162		
Sample ID: LRB	Method Blank			Run: SUB-C105162			07/31/08 12:55		
Silver	0.0004	mg/L	7E-06						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C105162			07/31/08 13:02		
Silver	0.0196	mg/L	0.0010	96	85	115			
Sample ID: C08070680-001CMS4	Post Digestion Spike			Run: SUB-C105162			07/31/08 18:14		
Silver	0.0137	mg/L	0.010	69	70	130			S
Sample ID: C08070707-001BMS4	Post Digestion Spike			Run: SUB-C105162			07/31/08 19:07		
Silver	0.119	mg/L	0.010	60	70	130			S
Sample ID: C08070707-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C105162			07/31/08 19:14		
Silver	0.122	mg/L	0.010	61	70	130	1.9	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_33661		
Sample ID: MB-33661	Method Blank					Run: SUB-B114551			07/23/08 08:31
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33661	Laboratory Fortified Blank					Run: SUB-B114551			07/23/08 08:33
Mercury	0.0021	mg/L	0.0010	105	85	115			
Sample ID: B08071691-003AMS	Sample Matrix Spike					Run: SUB-B114551			07/23/08 08:38
Mercury	0.0019	mg/L	0.0010	97	70	130			
Sample ID: B08071691-003AMSD	Sample Matrix Spike Duplicate					Run: SUB-B114551			07/23/08 08:40
Mercury	0.0022	mg/L	0.0010	108	70	130	11	30	
Method: E245.1							Batch: C_B_33630		
Sample ID: MB-33630	Method Blank					Run: SUB-C104808			07/22/08 09:40
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33630	Laboratory Fortified Blank					Run: SUB-C104808			07/22/08 09:43
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: B08071482-002BMS	Sample Matrix Spike					Run: SUB-C104808			07/22/08 10:15
Mercury	0.0018	mg/L	0.0010	92	70	130			
Sample ID: B08071482-002B MSD	Sample Matrix Spike Duplicate					Run: SUB-C104808			07/22/08 10:17
Mercury	0.0019	mg/L	0.0010	94	70	130	2.7	30	
Method: E245.1							Analytical Run: SUB-C104808		
Sample ID: QCS	Initial Calibration Verification Standard								07/22/08 09:25
Mercury	0.0020	mg/L	0.0010	101	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36127		
Sample ID: LFB0807153729-3	Laboratory Fortified Blank			Run: DIONEX_080716A			07/16/08 08:56		
Chloride	4.80	mg/L	0.50	96	90	110			
Fluoride	1.81	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.37	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.51	mg/L	0.10	100	90	110			
Sulfate	14.3	mg/L	1.0	96	90	110			
Sample ID: LFB0807153729-4	Laboratory Fortified Blank			Run: DIONEX_080716A			07/16/08 09:12		
Chloride	4.93	mg/L	0.50	99	90	110			
Fluoride	1.87	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.58	mg/L	0.10	103	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0807153729-5	Laboratory Fortified Blank			Run: DIONEX_080716A			07/16/08 09:29		
Chloride	4.94	mg/L	0.50	99	90	110			
Fluoride	1.87	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.58	mg/L	0.10	103	90	110			
Sulfate	14.8	mg/L	1.0	98	90	110			
Sample ID: R08070220-001AMS	Sample Matrix Spike			Run: DIONEX_080716A			07/16/08 10:01		
Chloride	262	mg/L	5.4	95	80	120			
Fluoride	94.7	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	98	80	120			
Nitrogen, Nitrite as N	130	mg/L	2.9	104	80	120			
Sulfate	2320	mg/L	3.4	84	80	120			
Sample ID: R08070220-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080716A			07/16/08 10:18		
Chloride	251	mg/L	5.4	90	80	120	4.3	10	
Fluoride	90.6	mg/L	0.56	81	80	120	4.5	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120	4.1	10	
Nitrogen, Nitrite as N	124	mg/L	2.9	100	80	120	4.3	10	
Sulfate	2260	mg/L	3.4	75	80	120	2.8	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0496		
Sample ID: MB-GrAB-0496	Method Blank								
Gross Alpha	-0.04	pCi/L							U
Gross Beta	-2	pCi/L							U
Sample ID: UNAT-GrAB-0496	Laboratory Control Sample								
Gross Alpha	140	pCi/L	104		70	130			08/09/08 00:01
Sample ID: C08071218-007DMS	Sample Matrix Spike								
Gross Beta	113	pCi/L	91		70	130			08/09/08 00:01
Sample ID: C08071218-007DMSD	Sample Matrix Spike Duplicate								
Gross Beta	117	pCi/L	95		70	130	2.9	15.8	08/09/08 00:01
Sample ID: R08070220-001H	Sample Duplicate								
Gross Alpha	97	pCi/L					20	37.6	08/09/08 12:18
Gross Beta	39	pCi/L					18	50.2	

Qualifiers:

RL - Analyte reporting limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/01/08
 Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample			Run: SUB-C104840			07/17/08 13:12		
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840	Method Blank			Run: SUB-C104840			07/17/08 13:12		
Americium 241	ND	pCi/L							
Barium 133	ND	pCi/L							
Bismuth 212	ND	pCi/L							
Bismuth 214	ND	pCi/L							
Cesium 134	ND	pCi/L							
Cesium 137	ND	pCi/L							
Cobalt 60	ND	pCi/L							
Iodine 125	ND	pCi/L							
Iodine 131	ND	pCi/L							
Lead 212	ND	pCi/L							
Lead 214	ND	pCi/L							
Manganese 54	ND	pCi/L							
Potassium 40	ND	pCi/L							
Radium 223	ND	pCi/L							
Radium 224	ND	pCi/L							
Thallium 208	ND	pCi/L							
Thorium 228	ND	pCi/L							
Thorium 234	ND	pCi/L							
Zinc 65	ND	pCi/L							
Radium 228	ND	pCi/L							
Gross Gamma	ND	pCi/L							U
Sample ID: R08070220-001H	Sample Duplicate			Run: SUB-C104840			07/17/08 13:12		
Americium 241	ND	pCi/L	20				0		30
Barium 133	ND	pCi/L	20				0		30
Bismuth 212	ND	pCi/L	20				0		30
Bismuth 214	81	pCi/L	20				2.6		30
Cesium 134	ND	pCi/L	20				0		30
Cesium 137	ND	pCi/L	20				0		30
Cobalt 60	ND	pCi/L	20				0		30
Iodine 125	ND	pCi/L	20				0		30
Iodine 131	ND	pCi/L	20				0		30
Lead 212	ND	pCi/L	20				0		30
Lead 214	47	pCi/L	20				3.3		30
Manganese 54	ND	pCi/L	20				0		30
Potassium 40	880	pCi/L	20				3.7		30
Radium 223	ND	pCi/L	20				0		30
Radium 224	ND	pCi/L	20				0		30

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R104840		
Sample ID: R08070220-001H	Sample Duplicate				Run: SUB-C104840			07/17/08 13:12	
Thallium 208	ND	pCi/L	20				0	30	
Thorium 228	ND	pCi/L	20				0	30	
Thorium 234	ND	pCi/L	20				0	30	
Zinc 65	ND	pCi/L	20				0	30	
Radium 228	ND	pCi/L	20				0	30	
Gross Gamma	1000	pCi/L	20				3.3	30	
Method: E903.0							Batch: C_19224		
Sample ID: C08070719-001EMS	Sample Matrix Spike				Run: SUB-C105486			08/06/08 15:36	
Radium 226	140	pCi/L		87	70	130			
Sample ID: C08070719-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C105486			08/06/08 15:36	
Radium 226	130	pCi/L		79	70	130	7.8	29.9	
Sample ID: MB-19224	Method Blank				Run: SUB-C105486			08/06/08 17:08	
Radium 226	-2	pCi/L							U
Sample ID: LCS-19224	Laboratory Control Sample				Run: SUB-C105486			08/06/08 17:08	
Radium 226	58	pCi/L		76	70	130			
Method: E903.0							Batch: C_RA226-2969		
Sample ID: MB-RA226-2969	Method Blank				Run: SUB-C105492			08/06/08 14:37	
Radium 226	-0.2	pCi/L							U
Sample ID: LCS-RA226-2969	Laboratory Control Sample				Run: SUB-C105492			08/06/08 14:37	
Radium 226	8.0	pCi/L		103	70	130			
Method: E907.0							Batch: C_19224		
Sample ID: C08070680-001IMS	Sample Matrix Spike				Run: SUB-C105794			08/04/08 22:05	
Thorium 230	19.8	pCi/L	0.20	88	70	130			
Sample ID: C08070680-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C105794			08/04/08 22:05	
Thorium 230	23.7	pCi/L	0.20	103	70	130	18	30	
Sample ID: LCS-19224	Laboratory Control Sample				Run: SUB-C105794			08/05/08 12:51	
Thorium 230	44.9	pCi/L	0.20	92	70	130			
Sample ID: MB-19224	Method Blank				Run: SUB-C105794			08/05/08 12:51	
Thorium 230	0.04	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0592		
Sample ID: LCS-RA-TH-ISO-0592	Laboratory Control Sample				Run: SUB-C105766			08/10/08 16:42	
Thorium 230	6.23	pCi/L	0.20	103	70	130			
Sample ID: C08070547-006HMS	Sample Matrix Spike				Run: SUB-C105766			08/10/08 16:46	
Thorium 230	17.2	pCi/L	0.20	105	70	130			
Sample ID: C08070547-006HMSD	Sample Matrix Spike Duplicate				Run: SUB-C105766			08/10/08 16:47	
Thorium 230	16.0	pCi/L	0.20	98	70	130	7.3	30	
Sample ID: MB-RA-TH-ISO-0592	Method Blank				Run: SUB-C105766			08/08/08 23:51	
Thorium 230	-0.05	pCi/L							U
Method: E909.0M							Batch: C_19224		
Sample ID: C08070547-007IMS	Sample Matrix Spike				Run: SUB-C106081			07/29/08 09:30	
Lead 210	930	pCi/L		79	70	130			
Sample ID: C08070547-007IMSD	Sample Matrix Spike Duplicate				Run: SUB-C106081			07/29/08 09:30	
Lead 210	1400	pCi/L		117	70	130	39	30	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R106081	Method Blank				Run: SUB-C106081			07/29/08 09:30	
Lead 210	5	pCi/L							U
Sample ID: LCS-R106081	Laboratory Control Sample				Run: SUB-C106081			07/29/08 09:30	
Lead 210	110	pCi/L		87	70	130			
Method: E909.0M							Batch: C_R105965		
Sample ID: R08070244-003H	Sample Matrix Spike				Run: SUB-C105965			07/25/08 11:45	
Lead 210	510	pCi/L		88	70	130			
Sample ID: R08070244-003H	Sample Matrix Spike Duplicate				Run: SUB-C105965			07/25/08 11:45	
Lead 210	560	pCi/L		95	70	130	8	30	
Sample ID: R08070244-006H	Sample Duplicate				Run: SUB-C105965			07/25/08 11:45	
Lead 210	-3.1	pCi/L					43	30	R
Lead 210 MDC	9.2	pCi/L							
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R105965	Method Blank				Run: SUB-C105965			07/25/08 11:45	
Lead 210	-1	pCi/L							U
Sample ID: LCS-R105965	Laboratory Control Sample				Run: SUB-C105965			07/25/08 11:45	
Lead 210	130	pCi/L		110	70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_19224		
Sample ID: R08070244-009I	Sample Matrix Spike				Run: SUB-C105583			07/31/08 14:15	
Polonium 210	50	pCi/L	1.0	119	70	130			
Sample ID: R08070244-009I	Sample Matrix Spike Duplicate				Run: SUB-C105583			07/31/08 14:15	
Polonium 210	44	pCi/L	1.0	104	70	130	14	30	
Sample ID: LCS-R105583	Laboratory Control Sample				Run: SUB-C105583			07/31/08 14:15	
Polonium 210	80	pCi/L	1.0	93	70	130			
Sample ID: MB-R105583	Method Blank				Run: SUB-C105583			07/31/08 14:15	
Polonium 210	0.2	pCi/L							U
Method: RMO-3008							Batch: C_R106670		
Sample ID: C08070547-004HMS	Sample Matrix Spike				Run: SUB-C106670			08/21/08 17:30	
Polonium 210	80	pCi/L	1.0	72	70	130			
Sample ID: C08070547-004HMSD	Sample Matrix Spike Duplicate				Run: SUB-C106670			08/21/08 17:30	
Polonium 210	95	pCi/L	1.0	84	70	130	17	30	
Sample ID: LCS-R106670	Laboratory Control Sample				Run: SUB-C106670			08/21/08 17:30	
Polonium 210	42	pCi/L	1.0	76	70	130			
Sample ID: MB-R106670	Method Blank				Run: SUB-C106670			08/21/08 17:30	
Polonium 210	0.1	pCi/L							U
Method: SW7470A							Analytical Run: SUB-B114551		
Sample ID: QCS	Initial Calibration Verification Standard							07/23/08 08:21	
Mercury	0.0021	mg/L	0.0010	105	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: <i>RESVER</i>		Project Name, PWS, Permit, Etc. <i>Powerful DB</i>		Sample Origin State: <i>SD</i>		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>			
Report Mail Address: 		Contact Name: <i>Cory Foreman @ resver.com</i>		Phone/Fax: 		Sampler: (Please Print) <i>Eric Leane</i>			
Invoice Address: 		Invoice Contact & Phone: 		Purchase Order: 		Quoter/Bottle Order: 			
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> Format: _____ <input type="checkbox"/> POTW/MWTP <input type="checkbox"/> LEVEL IV <input type="checkbox"/> State: _____ <input type="checkbox"/> NELAC <input type="checkbox"/> Other: _____				Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other				Shipped by: Cooler Dry? 	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) <i>DeBart GW302b</i>				Collection Date <i>7/13/06</i>		Collection Time <i>15:28</i>			
MATRIX <i>W</i>				ANALYSIS REQUESTED 					
SEE ATTACHED Normal Turnaround (TAT)				R U S H					
Comments: 				Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page		Receipt Temp: <i>4.6 °C</i>			
On Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No				Custody Seal Intact: <input checked="" type="radio"/> Y <input type="radio"/> N Signature Match: <input checked="" type="radio"/> Y <input type="radio"/> N		Laboratory Use Only <i>85870200-001A</i>			
Sample Disposal: Return to Client: _____ Lab Disposal: _____		Redesignated by (print): <i>Eric Leane</i> Date/TIME: <i>7/14/06 0739</i>		Designated by (print): <i>Steve Foreman</i> Date/TIME: <i>7-14-06 8:00</i>		Signature: 			
Signed _____		Redesignated by (print): 		Designated by (print): 		Signature: 			

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This service as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 03, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08070244 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 11 samples from RESPEC Inc on 7/15/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070244-001	DewBurd GW622	07/14/08 12:35	07/15/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08070244-002	DewBurd GW615	07/14/08 11:50	07/15/08	Aqueous	Same As Above
R08070244-003	DewBurd GW695	07/14/08 13:42	07/15/08	Aqueous	Same As Above
R08070244-004	DewBurd GW696	07/14/08 15:10	07/15/08	Aqueous	Same As Above
R08070244-005	DewBurd GW694	07/14/08 15:30	07/15/08	Aqueous	Same As Above
R08070244-006	DewBurd GW697	07/14/08 15:52	07/15/08	Aqueous	Same As Above
R08070244-007	DewBurd GW697	07/14/08 15:57	07/15/08	Aqueous	Same As Above
R08070244-008	DewBurd GW689	07/14/08 16:50	07/15/08	Aqueous	Same As Above
R08070244-009	DewBurd GW681	07/14/08 17:04	07/15/08	Aqueous	Same As Above
R08070244-010	DewBurd GW698	07/14/08 18:43	07/15/08	Aqueous	Same As Above

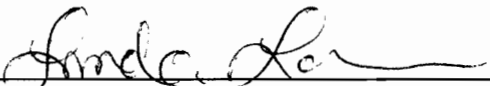


ANALYTICAL SUMMARY REPORT

R08070244-011 DewBurd BLK01	07/14/08 18:00 07/15/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
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As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
Linda Larson
Rapid City - Project Manager



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070244

Date: 03-Oct-08

CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 7/15/2008 8:00:00 AM. These samples were assigned ELI Workorder Number R08070244.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08070737

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08070737



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-001
 Client Sample ID: DewBurd GW622

Report Date: 10/03/08
 Collection Date: 07/14/08 12:35
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B	07/15/08 18:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 18:22/mb
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B	07/15/08 18:22/mb
Calcium	85.9	mg/L		0.5		1	E200.7	07/21/08 21:15/eli-c
Chloride	10	mg/L		1		1	E300.0	07/16/08 13:35/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/16/08 13:35/jmh
Magnesium	29.1	mg/L		0.5		1	E200.8	07/24/08 03:59/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:22/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 13:35/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 13:35/jmh
Potassium	14.1	mg/L		0.5		1	E200.7	07/21/08 21:15/eli-c
Silica	1.9	mg/L		0.5		1	E200.7	07/21/08 21:15/eli-c
Sodium	185	mg/L		0.5		1	E200.7	07/21/08 21:15/eli-c
Sulfate	478	mg/L	D	3		50	E300.0	07/16/08 12:46/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1290	umhos/cm		5.0		1	A2510 B	07/17/08 10:23/tb
Oxidation-Reduction Potential	110	mV				1	A2580 B	07/16/08 00:00/kh
pH	7.68	s.u.		0.01		1	A4500-H B	07/16/08 15:53/tb
Sodium Adsorption Ratio (SAR)	4.4	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C	07/17/08 17:25/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 03:59/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/24/08 03:59/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/25/08 23:47/eli-c
Boron	ND	mg/L		0.1		1	E200.7	07/21/08 21:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 23:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/24/08 03:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/24/08 03:59/eli-c
Iron	ND	mg/L		0.03		1	E200.8	07/25/08 23:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 03:59/eli-c
Manganese	0.19	mg/L		0.01		1	E200.8	07/25/08 23:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 03:59/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/24/08 03:59/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/24/08 03:59/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 15:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 23:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 03:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-001
 Client Sample ID: DewBurd GW622

Report Date: 10/03/08
 Collection Date: 07/14/08 12:35
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0052	mg/L		0.0003		1 E200.8	07/24/08 03:59/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	07/24/08 03:59/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/24/08 03:59/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 04:01/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/28/08 13:42/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	31.2	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	4.2	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.6	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta	10.0	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	2.5	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.8	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Lead 210	2.6	pCi/L	U			1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1 RMO-3008	08/06/08 15:42/eli-c
Polonium 210 precision (±)	0.56	pCi/L				1 RMO-3008	08/06/08 15:42/eli-c
Radium 226	2.9	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/13/08 00:45/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1 E907.0	08/13/08 00:45/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	2.8	pCi/L		1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-001
 Client Sample ID: DewBurd GW622

Report Date: 10/03/08
 Collection Date: 07/14/08 12:35
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.08	pCi/L					1	E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	824	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	57.9	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 02:30/eli-c
Arsenic	0.027	mg/L		0.001			10	E200.8	07/31/08 14:30/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/24/08 20:42/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 02:30/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/24/08 20:42/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 02:30/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/24/08 20:42/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/24/08 20:42/eli-c
Iron	0.91	mg/L		0.03			2	E200.7	07/24/08 20:42/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 02:30/eli-c
Manganese	0.19	mg/L		0.01			2	E200.7	07/24/08 20:42/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:17/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/24/08 20:42/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/24/08 20:42/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/30/08 02:30/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 14:30/eli-c
Strontium	1.6	mg/L		0.1			2	E200.7	07/24/08 20:42/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 02:30/eli-c
Uranium	0.0054	mg/L		0.0003			10	E200.8	07/30/08 02:30/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/24/08 20:42/eli-c
DATA QUALITY									
A/C Balance (± 5)	4.15	%					1	A1030 E	09/29/08 00:00/jmh
Anions	13.9	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	15.1	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	918	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03						1	A1030 E	09/29/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-002
 Client Sample ID: DewBurd GW615

Report Date: 10/03/08
 Collection Date: 07/14/08 11:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B	07/15/08 18:26/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 18:26/mb
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B	07/15/08 18:26/mb
Calcium	71.8	mg/L		0.5		1	E200.7	07/21/08 21:19/eli-c
Chloride	5	mg/L		1		1	E300.0	07/16/08 14:08/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	07/16/08 14:08/jmh
Magnesium	21.7	mg/L		0.5		1	E200.8	07/24/08 04:06/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 14:08/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 14:08/jmh
Potassium	11.7	mg/L		0.5		1	E200.7	07/21/08 21:19/eli-c
Silica	2.0	mg/L		0.5		1	E200.7	07/21/08 21:19/eli-c
Sodium	142	mg/L		0.5		1	E200.7	07/21/08 21:19/eli-c
Sulfate	430	mg/L	D	3		50	E300.0	07/16/08 13:51/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1090	umhos/cm		5.0		1	A2510 B	07/17/08 10:24/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B	07/16/08 00:00/kh
pH	7.29	s.u.		0.01		1	A4500-H B	07/16/08 16:03/tb
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	710	mg/L		5		1	A2540 C	07/17/08 17:26/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 04:06/eli-c
Arsenic	0.018	mg/L		0.001		1	E200.8	07/25/08 23:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/25/08 23:53/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/11/08 15:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 23:53/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	07/25/08 23:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/30/08 18:55/eli-c
Iron	0.54	mg/L		0.03		1	E200.8	07/25/08 23:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/25/08 23:53/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	07/25/08 23:53/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 04:06/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	07/21/08 21:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/25/08 23:53/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 15:58/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 23:53/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/25/08 23:53/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-002
 Client Sample ID: DewBurd GW615

Report Date: 10/03/08
 Collection Date: 07/14/08 11:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0025	mg/L		0.0003		1 E200.8	07/30/08 18:55/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	07/25/08 23:53/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/30/08 18:55/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 04:05/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/28/08 13:44/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	15.3	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	2.8	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta	7.0	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	1.8	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	2.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Lead 210	-0.8	pCi/L	U			1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	08/06/08 15:43/eli-c
Polonium 210 precision (±)	0.45	pCi/L				1 RMO-3008	08/06/08 15:43/eli-c
Radium 226	1.2	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-2	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-002
 Client Sample ID: DewBurd GW615

Report Date: 10/03/08
 Collection Date: 07/14/08 11:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.1	pCi/L		0.2			1	E907.0	08/04/08 22:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	08/04/08 22:05/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1420	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	65.0	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	0.003	mg/L		0.003			10	E200.8	07/30/08 04:05/eli-c
Arsenic	0.023	mg/L		0.001			10	E200.8	07/30/08 04:05/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/24/08 23:52/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 04:05/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	07/24/08 23:52/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 04:05/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/24/08 23:52/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/24/08 23:52/eli-c
Iron	1.52	mg/L		0.03			2	E200.7	07/24/08 23:52/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:05/eli-c
Manganese	0.07	mg/L		0.01			2	E200.7	07/24/08 23:52/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:19/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/24/08 23:52/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/24/08 23:52/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/30/08 04:05/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 14:37/eli-c
Strontium	1.4	mg/L		0.1			2	E200.7	07/24/08 23:52/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:05/eli-c
Uranium	0.0025	mg/L		0.0003			10	E200.8	07/31/08 14:37/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/24/08 23:52/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.0400	%					1	A1030 E	09/29/08 00:00/jmh
Anions	11.9	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	11.9	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	771	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-003
 Client Sample ID: DewBurd GW695

Report Date: 10/03/08
 Collection Date: 07/14/08 13:42
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B 07/15/08 18:28/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/15/08 18:28/mb
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B 07/15/08 18:28/mb
Calcium	48.0	mg/L		0.5		1	E200.7 07/21/08 21:24/eli-c
Chloride	12	mg/L		1		1	E300.0 07/16/08 14:40/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 07/16/08 14:40/jmh
Magnesium	17.8	mg/L		0.5		1	E200.8 07/24/08 04:12/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 07/17/08 16:25/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/16/08 14:40/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/16/08 14:40/jmh
Potassium	12.4	mg/L		0.5		1	E200.7 07/21/08 21:24/eli-c
Silica	1.9	mg/L		0.5		1	E200.7 07/21/08 21:24/eli-c
Sodium	258	mg/L		0.5		1	E200.7 07/21/08 21:24/eli-c
Sulfate	534	mg/L	D	3		50	E300.0 07/16/08 14:24/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1450	umhos/cm		5.0		1	A2510 B 07/17/08 10:25/tb
Oxidation-Reduction Potential	150	mV				1	A2580 B 07/16/08 00:00/kh
pH	7.98	s.u.		0.01		1	A4500-H B 07/16/08 16:03/tb
Sodium Adsorption Ratio (SAR)	8.1	unitless		0.10		1	Calculation 09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C 07/17/08 17:28/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 07/24/08 04:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 07/26/08 00:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8 07/26/08 00:00/eli-c
Boron	ND	mg/L		0.1		2	E200.7 09/11/08 15:55/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/26/08 00:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 07/26/08 00:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/26/08 00:00/eli-c
Iron	ND	mg/L		0.03		2	E200.7 07/28/08 16:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/24/08 04:12/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8 07/26/08 00:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/24/08 04:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 07/26/08 00:00/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 07/26/08 00:00/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/28/08 16:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/26/08 00:00/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/24/08 04:12/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-003
 Client Sample ID: DewBurd GW695

Report Date: 10/03/08
 Collection Date: 07/14/08 13:42
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Uranium	0.0028	mg/L		0.0003	1	E200.8	07/24/08 04:12/eli-c
Vanadium	ND	mg/L		0.1	1	E200.8	07/26/08 00:00/eli-c
Zinc	ND	mg/L		0.01	1	E200.8	07/26/08 00:00/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003	1	E200.8	07/27/08 04:22/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001	1	A3114 B	07/28/08 13:47/eli-c
Selenium-VI	ND	mg/L		0.001	1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	28.2	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	4.2	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.9	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Gross Beta	7.7	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	2.4	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.9	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Lead 210	-2	pCi/L	U		1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L			1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L			1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	-0.1	pCi/L	U	1.0	1	RMO-3008	08/06/08 15:43/eli-c
Polonium 210 precision (±)	0.49	pCi/L			1	RMO-3008	08/06/08 15:43/eli-c
Radium 226	4.7	pCi/L			1	E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.5	pCi/L			1	E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2	1	E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.09	pCi/L			1	E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20	1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L			1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-5	pCi/L	U		1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L			1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.2	pCi/L	U	1.0	1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.35	pCi/L			1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U		1	E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.2	pCi/L			1	E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L			1	E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-003
 Client Sample ID: DewBurd GW695

Report Date: 10/03/08
 Collection Date: 07/14/08 13:42
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1490	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	65.0	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 04:12/eli-c
Arsenic	0.004	mg/L		0.002			10	E200.8	07/30/08 04:12/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/24/08 23:56/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 04:12/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	07/24/08 23:56/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 04:12/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/24/08 23:56/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/24/08 23:56/eli-c
Iron	0.16	mg/L		0.03			2	E200.7	07/24/08 23:56/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:12/eli-c
Manganese	0.09	mg/L		0.01			2	E200.7	07/24/08 23:56/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:22/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/24/08 23:56/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/24/08 23:56/eli-c
Selenium	0.004	mg/L	D	0.002			10	E200.8	07/30/08 04:12/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 14:43/eli-c
Strontium	1.0	mg/L		0.1			2	E200.7	07/24/08 23:56/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:12/eli-c
Uranium	0.0031	mg/L		0.0003			10	E200.8	07/31/08 14:43/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/24/08 23:56/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.44	%					1	A1030 E	09/29/08 00:00/jmh
Anions	15.0	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	15.4	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	991	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-004
 Client Sample ID: DewBurd GW696

Report Date: 10/03/08
 Collection Date: 07/14/08 15:10
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
MAJOR IONS							
Alkalinity, Total as CaCO3	180	mg/L		5	1	A2320 B	07/15/08 18:51/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	07/15/08 18:51/mb
Bicarbonate as HCO3	219	mg/L		5	1	A2320 B	07/15/08 18:51/mb
Calcium	28.8	mg/L		0.5	1	E200.7	07/21/08 21:36/eli-c
Chloride	13	mg/L		1	1	E300.0	07/16/08 15:13/jmh
Fluoride	0.5	mg/L		0.1	1	E300.0	07/16/08 15:13/jmh
Magnesium	10.2	mg/L		0.5	1	E200.8	07/24/08 04:19/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1	1	A4500-NH3 G	07/17/08 16:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	07/16/08 15:13/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	07/16/08 15:13/jmh
Potassium	13.4	mg/L		0.5	1	E200.7	07/21/08 21:36/eli-c
Silica	2.1	mg/L		0.5	1	E200.7	07/21/08 21:36/eli-c
Sodium	291	mg/L		0.5	1	E200.7	07/21/08 21:36/eli-c
Sulfate	526	mg/L	D	3	50	E300.0	07/16/08 14:57/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1350	umhos/cm		5.0	1	A2510 B	07/17/08 10:26/tb
Oxidation-Reduction Potential	100	mV			1	A2580 B	07/16/08 00:00/kh
pH	8.19	s.u.		0.01	1	A4500-H B	07/16/08 16:03/tb
Sodium Adsorption Ratio (SAR)	12	unitless		0.10	1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5	1	A2540 C	07/17/08 17:29/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	1	E200.8	07/24/08 04:19/eli-c
Arsenic	ND	mg/L		0.001	1	E200.8	07/26/08 00:07/eli-c
Barium	ND	mg/L		0.1	1	E200.8	07/26/08 00:07/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/11/08 16:03/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	07/26/08 00:07/eli-c
Chromium	ND	mg/L		0.05	1	E200.8	07/26/08 00:07/eli-c
Copper	ND	mg/L		0.01	1	E200.8	07/26/08 00:07/eli-c
Iron	0.08	mg/L		0.03	2	E200.7	09/11/08 16:03/eli-c
Lead	ND	mg/L		0.001	1	E200.8	07/24/08 04:19/eli-c
Manganese	0.06	mg/L		0.01	1	E200.8	07/24/08 04:19/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	07/24/08 04:19/eli-c
Molybdenum	ND	mg/L		0.1	1	E200.8	07/26/08 00:07/eli-c
Nickel	ND	mg/L		0.05	1	E200.8	07/26/08 00:07/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	07/28/08 16:02/eli-c
Silver	ND	mg/L		0.005	1	E200.8	07/26/08 00:07/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	07/24/08 04:19/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-004
 Client Sample ID: DewBurd GW696

Report Date: 10/03/08
 Collection Date: 07/14/08 15:10
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/24/08 04:19/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/26/08 00:07/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/28/08 17:06/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/27/08 04:26/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/28/08 13:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4.0	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.8	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta	3.7	pCi/L	U			1	E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Lead 210	-3	pCi/L	U			1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	08/06/08 15:43/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1	RMO-3008	08/06/08 15:43/eli-c
Radium 226	0.4	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.1	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-004
 Client Sample ID: DewBurd GW696

Report Date: 10/03/08
 Collection Date: 07/14/08 15:10
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	228	pCi/L		100		1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	49.3	pCi/L				1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	07/30/08 04:18/eli-c
Arsenic	0.003	mg/L		0.002		10	E200.8	07/30/08 04:18/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/25/08 00:00/eli-c
Beryllium	ND	mg/L		0.001		10	E200.8	07/31/08 14:50/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/25/08 00:00/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/30/08 04:18/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/25/08 00:00/eli-c
Copper	ND	mg/L		0.01		2	E200.7	07/25/08 00:00/eli-c
Iron	0.14	mg/L		0.03		2	E200.7	07/25/08 00:00/eli-c
Lead	ND	mg/L		0.001		10	E200.8	07/30/08 04:18/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7	07/25/08 00:00/eli-c
Mercury	ND	mg/L		0.0002		1	E245.1	07/23/08 15:24/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	07/25/08 00:00/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/25/08 00:00/eli-c
Selenium	ND	mg/L	D	0.002		10	E200.8	07/30/08 04:18/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/31/08 14:50/eli-c
Strontium	0.8	mg/L		0.1		2	E200.7	07/25/08 00:00/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	07/30/08 04:18/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	07/30/08 04:18/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/25/08 00:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.30	%				1	A1030 E	09/29/08 00:00/jmh
Anions	14.9	meq/L				1	A1030 E	09/29/08 00:00/jmh
Cations	15.3	meq/L				1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	996	mg/L				1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930					1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-005
 Client Sample ID: DewBurd GW694

Report Date: 10/03/08
 Collection Date: 07/14/08 15:30
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	206	mg/L		5		1	A2320 B 07/15/08 18:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/15/08 18:53/mb
Bicarbonate as HCO3	251	mg/L		5		1	A2320 B 07/15/08 18:53/mb
Calcium	92.0	mg/L		0.5		1	E200.7 07/21/08 21:41/eli-c
Chloride	9	mg/L		1		1	E300.0 07/16/08 16:52/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 07/16/08 16:52/jmh
Magnesium	36.9	mg/L		0.5		1	E200.8 07/24/08 04:26/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 07/17/08 16:27/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/16/08 16:52/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/16/08 16:52/jmh
Potassium	17.6	mg/L		0.5		1	E200.7 07/21/08 21:41/eli-c
Silica	2.1	mg/L		0.5		1	E200.7 07/21/08 21:41/eli-c
Sodium	185	mg/L		0.5		1	E200.7 07/21/08 21:41/eli-c
Sulfate	528	mg/L	D	3		50	E300.0 07/16/08 16:03/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1320	umhos/cm		5.0		1	A2510 B 07/17/08 10:27/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B 07/16/08 00:00/kh
pH	7.73	s.u.		0.01		1	A4500-H B 07/16/08 16:02/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10		1	Calculation 09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	980	mg/L		5		1	A2540 C 07/17/08 17:29/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 07/24/08 04:26/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/30/08 19:02/eli-c
Barium	ND	mg/L		0.1		1	E200.7 07/21/08 21:41/eli-c
Boron	ND	mg/L		0.1		1	E200.7 07/21/08 21:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/26/08 00:13/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 07/26/08 00:13/eli-c
Copper	ND	mg/L		0.01		1	E200.8 07/28/08 17:13/eli-c
Iron	ND	mg/L		0.03		1	E200.7 07/21/08 21:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/24/08 04:26/eli-c
Manganese	0.10	mg/L		0.01		1	E200.7 07/21/08 21:41/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/24/08 04:26/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7 07/21/08 21:41/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 07/26/08 00:13/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/28/08 16:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/26/08 00:13/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/24/08 04:26/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-005
 Client Sample ID: DewBurd GW694

Report Date: 10/03/08
 Collection Date: 07/14/08 15:30
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0007	mg/L		0.0003		1	E200.8	07/24/08 04:26/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/26/08 00:13/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/28/08 17:13/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/27/08 04:30/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/28/08 13:55/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	15.1	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	3.3	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.7	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta	11.1	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Lead 210	1.1	pCi/L	U			1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	08/06/08 15:43/eli-c
Polonium 210 precision (±)	0.61	pCi/L				1	RMO-3008	08/06/08 15:43/eli-c
Radium 226	2.3	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.2	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.51	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-005
 Client Sample ID: DewBurd GW694

Report Date: 10/03/08
 Collection Date: 07/14/08 15:30
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	245	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	49.4	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 04:25/eli-c
Arsenic	0.007	mg/L		0.002			10	E200.8	07/30/08 04:25/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/25/08 00:04/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/31/08 14:57/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/25/08 00:04/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 04:25/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/25/08 00:04/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/25/08 00:04/eli-c
Iron	0.17	mg/L		0.03			2	E200.7	07/25/08 00:04/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:25/eli-c
Manganese	0.16	mg/L		0.01			2	E200.7	07/25/08 00:04/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:26/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/25/08 00:04/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/25/08 00:04/eli-c
Selenium	0.005	mg/L	D	0.002			10	E200.8	07/30/08 04:25/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 14:57/eli-c
Strontium	2.7	mg/L		0.1			2	E200.7	07/25/08 00:04/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:25/eli-c
Uranium	0.0005	mg/L		0.0003			10	E200.8	07/30/08 04:25/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/25/08 00:04/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.38	%					1	A1030 E	09/29/08 00:00/jmh
Anions	15.4	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	16.2	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	999	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-006
 Client Sample ID: DewBurd GW697

Report Date: 10/03/08
 Collection Date: 07/14/08 15:52
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B 07/15/08 18:57/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/15/08 18:57/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B 07/15/08 18:57/mb
Calcium	48.7	mg/L		0.5		1	E200.7 07/21/08 21:45/eli-c
Chloride	8	mg/L		1		1	E300.0 07/16/08 17:25/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 07/16/08 17:25/jmh
Magnesium	17.5	mg/L		0.5		1	E200.8 07/24/08 04:33/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 07/17/08 16:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/16/08 17:25/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/16/08 17:25/jmh
Potassium	11.8	mg/L		0.5		1	E200.7 07/21/08 21:45/eli-c
Silica	2.0	mg/L		0.5		1	E200.7 07/21/08 21:45/eli-c
Sodium	221	mg/L		0.5		1	E200.7 07/21/08 21:45/eli-c
Sulfate	470	mg/L	D	3		50	E300.0 07/16/08 17:08/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1290	umhos/cm		5.0		1	A2510 B 07/17/08 10:28/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B 07/16/08 00:00/kh
pH	7.93	s.u.		0.01		1	A4500-H B 07/16/08 16:02/tb
Sodium Adsorption Ratio (SAR)	6.9	unitless		0.10		1	Calculation 09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	830	mg/L		5		1	A2540 C 07/17/08 17:30/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 07/24/08 04:33/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/30/08 19:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8 07/26/08 00:20/eli-c
Boron	ND	mg/L		0.1		2	E200.7 09/11/08 16:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/26/08 00:20/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 07/28/08 17:20/eli-c
Copper	ND	mg/L		0.01		2	E200.7 09/11/08 16:07/eli-c
Iron	0.04	mg/L		0.03		2	E200.7 09/11/08 16:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/26/08 00:20/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8 07/28/08 17:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/26/08 00:20/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 07/26/08 00:20/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 07/28/08 17:20/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/28/08 16:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/26/08 00:20/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/26/08 00:20/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-006
 Client Sample ID: DewBurd GW697

Report Date: 10/03/08
 Collection Date: 07/14/08 15:52
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/28/08 17:20/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	07/28/08 17:20/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/28/08 17:20/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 04:34/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/28/08 13:57/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	6.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	2.4	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.1	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta	4.6	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	1.8	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	2.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Lead 210	-2	pCi/L	U			1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	-0.4	pCi/L	U	1.0		1 RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	0.69	pCi/L				1 RMO-3008	08/07/08 14:50/eli-c
Radium 226	0.9	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1 E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	3.6	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.1	pCi/L	U			1 E903.0	08/06/08 15:36/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	08/06/08 15:36/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 15:36/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070244-006
Client Sample ID: DewBurd GW697

Report Date: 10/03/08
Collection Date: 07/14/08 15:52
Date Received: 07/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	295	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	50.0	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 04:32/eli-c
Arsenic	0.004	mg/L		0.002			10	E200.8	07/30/08 04:32/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/25/08 00:08/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/31/08 15:04/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/25/08 00:08/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/31/08 15:04/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/25/08 00:08/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/25/08 00:08/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	07/25/08 00:08/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:32/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	07/25/08 00:08/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:33/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/25/08 00:08/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/25/08 00:08/eli-c
Selenium	0.003	mg/L	D	0.002			10	E200.8	07/30/08 04:32/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 15:04/eli-c
Strontium	1.1	mg/L		0.1			2	E200.7	07/25/08 00:08/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:32/eli-c
Uranium	0.0003	mg/L		0.0003			10	E200.8	07/30/08 04:32/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/25/08 00:08/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.61	%					1	A1030 E	09/29/08 00:00/jmh
Anions	13.4	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	13.8	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	884	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-007
 Client Sample ID: DewBurd GW697

Report Date: 10/03/08
 Collection Date: 07/14/08 15:57
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	07/15/08 18:59/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 18:59/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	07/15/08 18:59/mb
Calcium	49.5	mg/L		0.5		1	E200.7	07/21/08 22:02/eli-c
Chloride	8	mg/L		1		1	E300.0	07/16/08 17:58/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	07/16/08 17:58/jmh
Magnesium	17.2	mg/L		0.5		1	E200.8	07/24/08 05:07/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:34/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 17:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 17:58/jmh
Potassium	12.0	mg/L		0.5		1	E200.7	07/21/08 22:02/eli-c
Silica	2.0	mg/L		0.5		1	E200.7	07/21/08 22:02/eli-c
Sodium	205	mg/L	D	2		2	E200.7	07/24/08 17:59/eli-c
Sulfate	492	mg/L	D	3		50	E300.0	07/16/08 17:41/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm		5.0		1	A2510 B	07/17/08 10:30/tb
Oxidation-Reduction Potential	180	mV				1	A2580 B	07/16/08 00:00/kh
pH	7.99	s.u.		0.01		1	A4500-H B	07/16/08 16:02/tb
Sodium Adsorption Ratio (SAR)	6.4	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	820	mg/L		5		1	A2540 C	07/17/08 17:30/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 05:07/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/30/08 19:42/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 00:26/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/11/08 16:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 00:26/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/24/08 17:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/26/08 00:26/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	07/24/08 17:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 05:07/eli-c
Manganese	0.05	mg/L		0.01		2	E200.7	07/24/08 17:59/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 05:07/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/26/08 00:26/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/24/08 17:59/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 16:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/26/08 00:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 05:07/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-007
 Client Sample ID: DewBurd GW697

Report Date: 10/03/08
 Collection Date: 07/14/08 15:57
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/24/08 05:07/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/24/08 17:59/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/30/08 19:42/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/27/08 04:38/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/28/08 13:59/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.8	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.4	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta	7.3	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0	09/04/08 06:47/eli-c
Lead 210	0.3	pCi/L	U			1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	0.69	pCi/L				1	RMO-3008	08/07/08 14:50/eli-c
Radium 226	0.9	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3	pCi/L	U			1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.7	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	08/06/08 17:08/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/06/08 17:08/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/06/08 17:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-007
 Client Sample ID: DewBurd GW697

Report Date: 10/03/08
 Collection Date: 07/14/08 15:57
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	261	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	49.5	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 04:39/eli-c
Arsenic	0.004	mg/L		0.002			10	E200.8	07/30/08 04:39/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/25/08 00:12/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 04:39/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/25/08 00:12/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 04:39/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/25/08 00:12/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/25/08 00:12/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	07/25/08 00:12/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:39/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	07/25/08 00:12/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:36/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/25/08 00:12/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/25/08 00:12/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/30/08 04:39/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 15:11/eli-c
Strontium	1.1	mg/L		0.1			2	E200.7	07/25/08 00:12/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:39/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	07/30/08 04:39/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/25/08 00:12/eli-c
DATA QUALITY									
A/C Balance (± 5)	-2.81	%					1	A1030 E	09/29/08 00:00/jmh
Anions	13.9	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	13.1	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	890	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-008
 Client Sample ID: DewBurd GW689

Report Date: 10/03/08
 Collection Date: 07/14/08 16:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	07/15/08 19:07/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 19:07/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	07/15/08 19:07/mb
Calcium	44.8	mg/L		0.5		1	E200.7	07/21/08 22:06/eli-c
Chloride	5	mg/L		1		1	E300.0	07/16/08 18:30/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	07/16/08 18:30/jmh
Magnesium	16.4	mg/L		0.5		1	E200.8	07/24/08 05:27/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:35/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 18:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 18:30/jmh
Potassium	10.7	mg/L		0.5		1	E200.7	07/21/08 22:06/eli-c
Silica	2.0	mg/L		0.5		1	E200.7	07/21/08 22:06/eli-c
Sodium	173	mg/L	D	2		2	E200.7	07/24/08 18:03/eli-c
Sulfate	420	mg/L	D	3		50	E300.0	07/16/08 18:14/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1040	umhos/cm		5.0		1	A2510 B	07/17/08 10:32/tb
Oxidation-Reduction Potential	190	mV				1	A2580 B	07/16/08 00:00/kh
pH	7.83	s.u.		0.01		1	A4500-H B	07/16/08 16:02/tb
Sodium Adsorption Ratio (SAR)	5.6	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	730	mg/L		5		1	A2540 C	07/17/08 17:31/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 05:27/eli-c
Arsenic	ND	mg/L	D	0.02		1	E200.7	07/21/08 22:06/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 00:33/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/24/08 18:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 00:33/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/24/08 18:03/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/30/08 19:49/eli-c
Iron	ND	mg/L		0.03		2	E200.7	09/11/08 16:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 05:27/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	07/24/08 18:03/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 05:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	07/21/08 22:06/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/30/08 19:49/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 16:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/26/08 00:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 05:27/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-008
 Client Sample ID: DewBurd GW689

Report Date: 10/03/08
 Collection Date: 07/14/08 16:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0034	mg/L		0.0003		1 E200.8	07/24/08 05:27/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	07/24/08 18:03/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/30/08 19:49/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	07/27/08 04:42/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/28/08 14:06/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	36.0	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	3.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.0	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta	9.5	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	1.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	2.9	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Lead 210	-0.4	pCi/L	U			1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1 RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1 RMO-3008	08/07/08 14:50/eli-c
Radium 226	6.1	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	0.6	pCi/L				1 E903.0	08/12/08 13:16/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1 E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.1	pCi/L	U			1 E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L				1 E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1 RMO-3008	07/31/08 14:15/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	08/06/08 17:08/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/06/08 17:08/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	08/06/08 17:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-008
 Client Sample ID: DewBurd GW689

Report Date: 10/03/08
 Collection Date: 07/14/08 16:50
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1670	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	65.8	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 04:46/eli-c
Arsenic	ND	mg/L	D	0.001			10	E200.8	07/30/08 04:46/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/25/08 00:16/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 04:46/eli-c
Boron	ND	mg/L		0.1			2	E200.7	07/25/08 00:16/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 04:46/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/25/08 00:16/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/25/08 00:16/eli-c
Iron	0.82	mg/L		0.03			2	E200.7	07/25/08 00:16/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 04:46/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	07/25/08 00:16/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:38/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/25/08 00:16/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/25/08 00:16/eli-c
Selenium	ND	mg/L	D	0.002			10	E200.8	07/30/08 04:46/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 15:17/eli-c
Strontium	1.0	mg/L		0.1			2	E200.7	07/25/08 00:16/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 04:46/eli-c
Uranium	0.0041	mg/L		0.0003			10	E200.8	07/30/08 04:46/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/25/08 00:16/eli-c
DATA QUALITY									
A/C Balance (± 5)	-2.08	%					1	A1030 E	09/29/08 00:00/jmh
Anions	11.9	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	11.4	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	766	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-009
 Client Sample ID: DewBurd GW681

Report Date: 10/03/08
 Collection Date: 07/14/08 17:04
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B 07/15/08 19:09/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 07/15/08 19:09/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B 07/15/08 19:09/mb
Calcium	60.6	mg/L		0.5		1	E200.7 07/21/08 22:14/eli-c
Chloride	17	mg/L		1		1	E300.0 07/16/08 20:09/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 07/16/08 20:09/jmh
Magnesium	24.3	mg/L		0.5		1	E200.8 07/24/08 05:33/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 07/17/08 16:36/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/16/08 20:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/16/08 20:09/jmh
Potassium	13.7	mg/L		0.5		1	E200.7 07/21/08 22:14/eli-c
Silica	1.9	mg/L		0.5		1	E200.7 07/21/08 22:14/eli-c
Sodium	214	mg/L	D	2		2	E200.7 07/24/08 18:08/eli-c
Sulfate	619	mg/L		1		1	E300.0 07/16/08 20:09/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1380	umhos/cm		5.0		1	A2510 B 07/17/08 10:32/tb
Oxidation-Reduction Potential	150	mV				1	A2580 B 07/16/08 00:00/kh
pH	7.85	s.u.		0.01		1	A4500-H B 07/16/08 16:02/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation 09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C 07/17/08 17:31/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 07/24/08 05:33/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 07/26/08 00:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8 07/26/08 00:40/eli-c
Boron	ND	mg/L		0.1		2	E200.7 09/11/08 16:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 07/26/08 00:40/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 07/24/08 18:08/eli-c
Copper	ND	mg/L		0.01		2	E200.7 07/24/08 18:08/eli-c
Iron	ND	mg/L		0.03		2	E200.7 09/11/08 16:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8 07/24/08 05:33/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7 07/24/08 18:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 07/24/08 05:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 07/26/08 00:40/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 07/24/08 18:08/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 07/28/08 16:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8 07/26/08 00:40/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 07/24/08 05:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-009
 Client Sample ID: DewBurd GW681

Report Date: 10/03/08
 Collection Date: 07/14/08 17:04
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Uranium	0.0097	mg/L		0.0003			1	E200.8	07/24/08 05:33/eli-c
Vanadium	ND	mg/L		0.1			2	E200.7	07/24/08 18:08/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	07/24/08 18:08/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	07/27/08 04:46/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	07/28/08 14:09/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	2170	pCi/L					1	E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	30.3	pCi/L					1	E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	3.7	pCi/L					1	E900.0	09/04/08 06:47/eli-c
Gross Beta	583	pCi/L					1	E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	7.4	pCi/L					1	E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	3.8	pCi/L					1	E900.0	09/04/08 06:47/eli-c
Lead 210	26.3	pCi/L					1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.9	pCi/L					1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L					1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	3.1	pCi/L		1.0			1	RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	1.8	pCi/L					1	RMO-3008	08/07/08 14:50/eli-c
Radium 226	418	pCi/L					1	E903.0	08/12/08 13:16/eli-c
Radium 226 precision (±)	4.3	pCi/L					1	E903.0	08/12/08 13:16/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.07	pCi/L					1	E907.0	08/13/08 12:43/eli-c
Gross Gamma	13000	pCi/L		20			1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	260	pCi/L					1	E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	3.7	pCi/L	U				1	E909.0M	07/29/08 09:30/eli-c
Lead 210 precision (±)	12.8	pCi/L					1	E909.0M	07/29/08 09:30/eli-c
Lead 210 MDC	21.4	pCi/L					1	E909.0M	07/29/08 09:30/eli-c
Polonium 210	0.9	pCi/L	U	1.0			1	RMO-3008	07/31/08 14:15/eli-c
Polonium 210 precision (±)	0.56	pCi/L					1	RMO-3008	07/31/08 14:15/eli-c
Radium 226	0.6	pCi/L	U				1	E903.0	08/06/08 17:08/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	08/06/08 17:08/eli-c
Radium 226 MDC	0.6	pCi/L					1	E903.0	08/06/08 17:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-009
 Client Sample ID: DewBurd GW681

Report Date: 10/03/08
 Collection Date: 07/14/08 17:04
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.1	pCi/L	U	0.2	1	E907.0	08/05/08 12:51/eli-c
Thorium 230 precision (±)	0.2	pCi/L			1	E907.0	08/05/08 12:51/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	244000	pCi/L		100	1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	575	pCi/L			1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003	10	E200.8	07/30/08 04:52/eli-c
Arsenic	0.024	mg/L		0.001	10	E200.8	07/31/08 15:52/eli-c
Barium	ND	mg/L		0.1	2	E200.7	07/25/08 00:20/eli-c
Beryllium	ND	mg/L		0.001	10	E200.8	07/31/08 15:52/eli-c
Boron	ND	mg/L		0.1	2	E200.7	07/25/08 00:20/eli-c
Cadmium	ND	mg/L		0.005	10	E200.8	07/30/08 04:52/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	07/25/08 00:20/eli-c
Copper	ND	mg/L		0.01	2	E200.7	07/25/08 00:20/eli-c
Iron	0.06	mg/L		0.03	2	E200.7	07/25/08 00:20/eli-c
Lead	ND	mg/L		0.001	10	E200.8	07/30/08 04:52/eli-c
Manganese	0.09	mg/L		0.01	2	E200.7	07/25/08 00:20/eli-c
Mercury	ND	mg/L		0.0002	1	E245.1	07/23/08 15:40/eli-b
Molybdenum	ND	mg/L		0.1	2	E200.7	07/25/08 00:20/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	07/25/08 00:20/eli-c
Selenium	0.002	mg/L	D	0.002	10	E200.8	07/30/08 04:52/eli-c
Silver	ND	mg/L		0.005	10	E200.8	07/31/08 15:52/eli-c
Strontium	1.3	mg/L		0.1	2	E200.7	07/25/08 00:20/eli-c
Thallium	ND	mg/L		0.001	10	E200.8	07/30/08 04:52/eli-c
Uranium	0.0104	mg/L		0.0003	10	E200.8	07/30/08 04:52/eli-c
Zinc	ND	mg/L		0.01	2	E200.7	07/25/08 00:20/eli-c
DATA QUALITY							
A/C Balance (± 5)	-0.0200	%			1	A1030 E	09/29/08 00:00/jmh
Anions	14.7	meq/L			1	A1030 E	09/29/08 00:00/jmh
Cations	14.7	meq/L			1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	955	mg/L			1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960				1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 27 of 33
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-010
 Client Sample ID: DewBurd GW698

Report Date: 10/03/08
 Collection Date: 07/14/08 18:43
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	122	mg/L		5		1	A2320 B	07/15/08 19:12/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 19:12/mb
Bicarbonate as HCO3	149	mg/L		5		1	A2320 B	07/15/08 19:12/mb
Calcium	356	mg/L		0.5		1	E200.7	07/21/08 22:18/eli-c
Chloride	10	mg/L		1		1	E300.0	07/16/08 20:42/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	07/16/08 20:42/jmh
Magnesium	139	mg/L		0.5		1	E200.8	07/24/08 05:40/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:38/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 20:42/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 20:42/jmh
Potassium	22.2	mg/L		0.5		1	E200.7	07/21/08 22:18/eli-c
Silica	2.6	mg/L		0.5		1	E200.7	07/21/08 22:18/eli-c
Sodium	84	mg/L	D	2		2	E200.7	07/24/08 18:12/eli-c
Sulfate	1530	mg/L	D	3		50	E300.0	07/16/08 20:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2530	umhos/cm		5.0		1	A2510 B	07/17/08 10:34/tb
Oxidation-Reduction Potential	47	mV				1	A2580 B	07/16/08 00:00/kh
pH	7.72	s.u.		0.01		1	A4500-H B	07/16/08 16:16/tb
Sodium Adsorption Ratio (SAR)	0.95	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	07/17/08 17:32/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 05:40/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/30/08 19:56/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/11/08 16:35/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/24/08 18:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/31/08 16:19/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/24/08 18:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/30/08 19:56/eli-c
Iron	3.38	mg/L		0.03		2	E200.7	07/24/08 18:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 05:40/eli-c
Manganese	2.44	mg/L		0.01		2	E200.7	07/24/08 18:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 05:40/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	07/21/08 22:18/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	07/30/08 19:56/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 16:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/31/08 16:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 05:40/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-010
 Client Sample ID: DewBurd GW698

Report Date: 10/03/08
 Collection Date: 07/14/08 18:43
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.119	mg/L		0.0003		1 E200.8	07/24/08 05:40/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	07/24/08 18:12/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	07/30/08 19:56/eli-c
METALS - SUSPENDED							
Uranium	0.0055	mg/L		0.0003		1 E200.8	07/27/08 05:19/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	07/28/08 14:11/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1790	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha precision (±)	39.6	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Alpha MDC	7.6	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta	599	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	11.1	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	7.7	pCi/L				1 E900.0	09/04/08 06:47/eli-c
Lead 210	-0.4	pCi/L	U			1 E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L				1 E909.0M	07/25/08 11:45/eli-c
Polonium 210	1.6	pCi/L		1.0		1 RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1 RMO-3008	08/07/08 14:50/eli-c
Radium 226	423	pCi/L				1 E903.0	08/12/08 14:54/eli-c
Radium 226 precision (±)	6.0	pCi/L				1 E903.0	08/12/08 14:54/eli-c
Thorium 230	0.1	pCi/L		0.2		1 E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1 E907.0	08/13/08 12:43/eli-c
Gross Gamma	1500	pCi/L		20		1 E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	90	pCi/L				1 E901.1	07/17/08 13:12/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.7	pCi/L	U			1 E909.0M	08/11/08 09:30/eli-c
Lead 210 precision (±)	7.0	pCi/L				1 E909.0M	08/11/08 09:30/eli-c
Lead 210 MDC	11.8	pCi/L				1 E909.0M	08/11/08 09:30/eli-c
Polonium 210	1.5	pCi/L		1.0		1 RMO-3008	08/08/08 14:06/eli-c
Polonium 210 precision (±)	0.77	pCi/L				1 RMO-3008	08/08/08 14:06/eli-c
Radium 226	6.3	pCi/L				1 E903.0	08/11/08 09:37/eli-c
Radium 226 precision (±)	0.8	pCi/L				1 E903.0	08/11/08 09:37/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	08/11/08 09:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-010
 Client Sample ID: DewBurd GW698

Report Date: 10/03/08
 Collection Date: 07/14/08 18:43
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.9	pCi/L		0.2		1 E907.0	08/10/08 12:37/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1 E907.0	08/10/08 12:37/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	27900	pCi/L		100		1 D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	198	pCi/L				1 D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	07/30/08 04:59/eli-c
Arsenic	0.002	mg/L	D	0.001		10 E200.8	07/30/08 04:59/eli-c
Barium	ND	mg/L		0.1		2 E200.7	07/25/08 00:24/eli-c
Beryllium	ND	mg/L		0.001		10 E200.8	07/30/08 04:59/eli-c
Boron	ND	mg/L		0.1		2 E200.7	07/25/08 00:24/eli-c
Cadmium	ND	mg/L		0.005		10 E200.8	07/30/08 04:59/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	07/25/08 00:24/eli-c
Copper	ND	mg/L		0.01		2 E200.7	07/25/08 00:24/eli-c
Iron	5.66	mg/L		0.03		2 E200.7	07/25/08 00:24/eli-c
Lead	0.001	mg/L	B	0.001		10 E200.8	07/30/08 04:59/eli-c
Manganese	2.53	mg/L		0.01		2 E200.7	07/25/08 00:24/eli-c
Mercury	ND	mg/L		0.0002		1 E245.1	07/23/08 15:43/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	07/25/08 00:24/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	07/25/08 00:24/eli-c
Selenium	0.005	mg/L	D	0.002		10 E200.8	07/30/08 04:59/eli-c
Silver	ND	mg/L		0.005		10 E200.8	07/31/08 15:58/eli-c
Strontium	4.7	mg/L		0.1		2 E200.7	07/25/08 00:24/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	07/30/08 04:59/eli-c
Uranium	0.116	mg/L		0.0003		10 E200.8	07/31/08 15:58/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	07/25/08 00:24/eli-c
DATA QUALITY							
A/C Balance (± 5)	-1.21	%				1 A1030 E	09/29/08 00:00/jmh
Anions	34.6	meq/L				1 A1030 E	09/29/08 00:00/jmh
Cations	33.7	meq/L				1 A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	2220	mg/L				1 A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03					1 A1030 E	09/29/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 30 of 33
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. B - The analyte was detected in the method blank.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-011
 Client Sample ID: DewBurd BLK01

Report Date: 10/03/08
 Collection Date: 07/14/08 18:00
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	07/15/08 19:14/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/15/08 19:14/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	07/15/08 19:14/mb
Calcium	ND	mg/L		0.5		1	E200.7	07/21/08 22:22/eli-c
Chloride	ND	mg/L		1		1	E300.0	07/16/08 20:58/jmh
Fluoride	0.7	mg/L		0.1		1	E300.0	07/16/08 20:58/jmh
Magnesium	ND	mg/L		0.5		1	E200.8	07/24/08 05:47/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/17/08 16:39/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/16/08 20:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/16/08 20:58/jmh
Potassium	0.6	mg/L		0.5		1	E200.7	07/21/08 22:22/eli-c
Silica	ND	mg/L		0.5		1	E200.7	07/21/08 22:22/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	07/24/08 18:24/eli-c
Sulfate	2	mg/L		1		1	E300.0	07/16/08 20:58/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	19.5	umhos/cm		5.0		1	A2510 B	07/17/08 10:35/tb
Oxidation-Reduction Potential	400	mV				1	A2580 B	07/16/08 00:00/kh
pH	4.47	s.u.		0.01		1	A4500-H B	07/16/08 16:17/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	46	mg/L		5		1	A2540 C	07/17/08 17:33/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/24/08 05:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/26/08 01:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	07/26/08 01:32/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/24/08 18:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/26/08 01:32/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/24/08 18:24/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/26/08 01:32/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/24/08 18:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/24/08 05:47/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	07/24/08 18:24/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/24/08 05:47/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	07/26/08 01:32/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/24/08 18:24/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/28/08 16:25/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/28/08 17:34/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/24/08 05:47/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-011
 Client Sample ID: DewBurd BLK01

Report Date: 10/03/08
 Collection Date: 07/14/08 18:00
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003	1	E200.8	07/24/08 05:47/eli-c
Vanadium	ND	mg/L		0.1	2	E200.7	07/24/08 18:24/eli-c
Zinc	ND	mg/L		0.01	2	E200.7	07/24/08 18:24/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003	1	E200.8	07/27/08 05:23/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001	1	A3114 B	07/28/08 14:13/eli-c
Selenium-VI	ND	mg/L		0.001	1	A3114 B	07/28/08 16:34/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	0.5	pCi/L			1	E900.0	08/18/08 10:05/eli-c
Gross Alpha precision (±)	0.6	pCi/L			1	E900.0	08/18/08 10:05/eli-c
Gross Alpha MDC	1.0	pCi/L			1	E900.0	08/18/08 10:05/eli-c
Gross Beta	-3	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Gross Beta precision (±)	1.2	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Gross Beta MDC	2.1	pCi/L			1	E900.0	09/04/08 06:47/eli-c
Lead 210	-3	pCi/L	U		1	E909.0M	07/25/08 11:45/eli-c
Lead 210 precision (±)	5.5	pCi/L			1	E909.0M	07/25/08 11:45/eli-c
Lead 210 MDC	9.2	pCi/L			1	E909.0M	07/25/08 11:45/eli-c
Polonium 210	-0.2	pCi/L	U	1.0	1	RMO-3008	08/07/08 14:50/eli-c
Polonium 210 precision (±)	0.70	pCi/L			1	RMO-3008	08/07/08 14:50/eli-c
Radium 226	-0.02	pCi/L	U		1	E903.0	08/12/08 14:54/eli-c
Radium 226 precision (±)	0.3	pCi/L			1	E903.0	08/12/08 14:54/eli-c
Thorium 230	0.0	pCi/L	U	0.2	1	E907.0	08/13/08 12:43/eli-c
Thorium 230 precision (±)	0.05	pCi/L			1	E907.0	08/13/08 12:43/eli-c
Gross Gamma	0.0	pCi/L	U	20	1	E901.1	07/17/08 13:12/eli-c
Gross Gamma precision (±)	20	pCi/L			1	E901.1	07/17/08 13:12/eli-c
- For Ra226 the sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on all samples due to lack of sufficient sample volume from the client. These results should be used for general information only and not for regulatory compliance or reporting purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	-1	pCi/L	U		1	E909.0M	08/11/08 09:30/eli-c
Lead 210 precision (±)	7.0	pCi/L			1	E909.0M	08/11/08 09:30/eli-c
Lead 210 MDC	11.8	pCi/L			1	E909.0M	08/11/08 09:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0	1	RMO-3008	08/08/08 14:06/eli-c
Polonium 210 precision (±)	0.29	pCi/L			1	RMO-3008	08/08/08 14:06/eli-c
Radium 226	-0.5	pCi/L	U		1	E903.0	08/11/08 09:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070244-011
 Client Sample ID: DewBurd BLK01

Report Date: 10/03/08
 Collection Date: 07/14/08 18:00
 Date Received: 07/15/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	08/11/08 09:37/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	08/11/08 09:37/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	08/10/08 12:37/eli-c
Thorium 230 precision (±)	0.08	pCi/L					1	E907.0	08/10/08 12:37/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	124	pCi/L		100			1	D5072-92	07/16/08 18:45/eli-c
Radon 222 precision (±)	46.9	pCi/L					1	D5072-92	07/16/08 18:45/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	07/30/08 05:06/eli-c
Arsenic	ND	mg/L		0.001			10	E200.8	07/30/08 05:06/eli-c
Barium	ND	mg/L		0.1			1	E200.7	07/17/08 11:35/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	07/30/08 05:06/eli-c
Boron	ND	mg/L		0.1			1	E200.7	07/17/08 11:35/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	07/30/08 05:06/eli-c
Chromium	ND	mg/L		0.05			1	E200.7	07/17/08 11:35/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/25/08 00:28/eli-c
Iron	0.03	mg/L		0.03			1	E200.7	07/17/08 11:35/eli-c
Lead	ND	mg/L		0.001			10	E200.8	07/30/08 05:06/eli-c
Manganese	ND	mg/L		0.01			1	E200.7	07/17/08 11:35/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	07/23/08 15:45/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.7	07/17/08 11:35/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/25/08 00:28/eli-c
Selenium	0.002	mg/L	D	0.002			10	E200.8	07/30/08 05:06/eli-c
Silver	ND	mg/L		0.005			10	E200.8	07/31/08 16:05/eli-c
Strontium	ND	mg/L		0.1			2	E200.7	07/25/08 00:28/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	07/30/08 05:06/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	07/30/08 05:06/eli-c
Zinc	ND	mg/L		0.01			1	E200.7	07/17/08 11:35/eli-c

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 33 of 33
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080715A-ALK-SEL-W		
Sample ID: LCS1_080715A Alkalinity, Total as CaCO3	Laboratory Control Sample 952	mg/L	5.0	95	90	110			Run: PH_COND1-R_080715A 07/15/08 14:16
Sample ID: MBLK1_080715A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080715A 07/15/08 14:17
Sample ID: R08070238-005AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 274	mg/L	5.0	102	80	120			Run: PH_COND1-R_080715A 07/15/08 18:02
Sample ID: R08070238-005AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 276	mg/L	5.0	104	80	120	0.7	10	Run: PH_COND1-R_080715A 07/15/08 18:03
Sample ID: R08070244-007AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 272	mg/L	5.0	98	80	120			Run: PH_COND1-R_080715A 07/15/08 19:01
Sample ID: R08070244-007AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 274	mg/L	5.0	100	80	120	0.7	10	Run: PH_COND1-R_080715A 07/15/08 19:04
Method: A2510 B							Batch: 080717_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080717 Conductivity @ 25 C	Laboratory Control Sample 1420	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080717B 07/17/08 10:06
Sample ID: LCS1-1_080717 Conductivity @ 25 C	Laboratory Control Sample 156	umhos/cm	5.0	104	90	110			Run: PH_COND2-R_080717B 07/17/08 10:06
Sample ID: LCS2-1_080717 Conductivity @ 25 C	Laboratory Control Sample 4940	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080717B 07/17/08 10:08
Sample ID: MBLK-1_080717 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080717B 07/17/08 10:42
Sample ID: R08070244-006ADUP Conductivity @ 25 C	Sample Duplicate 1270	umhos/cm	5.0				1.6	10	Run: PH_COND2-R_080717B 07/17/08 10:29

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080717A-SLDS-TDS-W		
Sample ID: LCS1_080717A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	103	90	110			07/17/08 17:19
Sample ID: MBLK1_080717A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						07/17/08 17:20
Sample ID: R08070244-002AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	930	mg/L	5.0	106	80	120			07/17/08 17:26
Sample ID: R08070244-002AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	950	mg/L	5.0	116	80	120	2.1	10	07/17/08 17:27
Sample ID: R08070267-001AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	470	mg/L	5.0	114	80	120			07/17/08 17:35
Sample ID: R08070267-001AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	440	mg/L	5.0	102	80	120	5.3	10	07/17/08 17:35
Method: A2580 B							Batch: 080716-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample								
Oxidation-Reduction Potential	470	mV		100	95	105			07/16/08 00:00
Sample ID: R08070220-001F	Sample Duplicate								
Oxidation-Reduction Potential	ND	mV					0	10	07/16/08 00:00
Method: A3114 B							Batch: C_SE3114-080728B		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	6E-05						07/28/08 13:15
Sample ID: 288-106-2	Laboratory Control Sample								
Selenium-IV	0.054	mg/L	0.0010	108	90	110			07/28/08 13:17
Sample ID: R08070244-004E	Sample Matrix Spike								
Selenium-IV	0.050	mg/L	0.0010	99	85	115			07/28/08 13:51
Sample ID: R08070244-004E	Sample Matrix Spike Duplicate								
Selenium-IV	0.051	mg/L	0.0010	101	85	115	2.1	10	07/28/08 13:53

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080728C		
Sample ID: MBLK	Method Blank					Run: SUB-C104959			07/28/08 15:28
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample					Run: SUB-C104959			07/28/08 15:30
Selenium	0.055	mg/L	0.0010	109	90	110			
Sample ID: R08070244-004E	Sample Matrix Spike					Run: SUB-C104959			07/28/08 16:04
Selenium	0.048	mg/L	0.0010	95	85	115			
Sample ID: R08070244-004E	Sample Matrix Spike Duplicate					Run: SUB-C104959			07/28/08 16:06
Selenium	0.048	mg/L	0.0010	97	85	115	1.8	10	
Method: A4500-H B							Batch: 080716_1_PH-W		
Sample ID: LCS_pH-1_080716	Laboratory Control Sample					Run: PH_COND2-R_080716A			07/16/08 15:41
pH	6.81	s.u.	0.010	99	98.55	101.45			
Sample ID: R08070244-001ADUP	Sample Duplicate					Run: PH_COND2-R_080716A			07/16/08 16:05
pH	7.68	s.u.	0.010				0	1.25	
Sample ID: R08070244-011ADUP	Sample Duplicate					Run: PH_COND2-R_080716A			07/16/08 16:18
pH	4.44	s.u.	0.010				0.7	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-07-17_2_NH3_02		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						Run: TECHAA2-R_080717B 07/17/08 11:42
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	94	90	110			Run: TECHAA2-R_080717B 07/17/08 11:54
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	103	90	110			Run: TECHAA2-R_080717B 07/17/08 11:55
Sample ID: R08070238-006CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	96	80	120			Run: TECHAA2-R_080717B 07/17/08 16:18
Sample ID: R08070238-006CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.23	mg/L	0.10	93	80	120	3.8	10	Run: TECHAA2-R_080717B 07/17/08 16:19
Sample ID: R08070244-006BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.46	mg/L	0.10	115	80	120			Run: TECHAA2-R_080717B 07/17/08 16:32
Sample ID: R08070244-006BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.45	mg/L	0.10	114	80	120	0.4	10	Run: TECHAA2-R_080717B 07/17/08 16:33
Sample ID: R08070256-003BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.22	mg/L	0.10	88	80	120			Run: TECHAA2-R_080717B 07/17/08 16:46
Sample ID: R08070256-003BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.20	mg/L	0.10	80	80	120	9.5	10	Run: TECHAA2-R_080717B 07/17/08 16:47
Method: D5072-92							Batch: C_R104556		
Sample ID: MB-R104556 Radon 222	Method Blank -30	pCi/L							Run: SUB-C104556 07/16/08 18:45
Sample ID: LCS-R104556 Radon 222	Laboratory Control Sample 302	pCi/L	100	109	70	130			Run: SUB-C104556 07/16/08 18:45
Sample ID: C08070756-008CDUP Radon 222	Sample Duplicate 197	pCi/L	100				20	30	Run: SUB-C104556 07/16/08 18:45

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19156		
Sample ID: MB-19156	Method Blank		Run: SUB-C104440			07/17/08 11:21			
Barium	ND	mg/L	0.004						
Boron	0.05	mg/L	0.006						
Chromium	ND	mg/L	0.003						
Copper	ND	mg/L	0.005						
Iron	0.02	mg/L	0.005						
Manganese	0.002	mg/L	0.0008						
Molybdenum	0.02	mg/L	0.01						
Nickel	ND	mg/L	0.02						
Zinc	0.007	mg/L	0.006						
Sample ID: LCS3-19156	Laboratory Control Sample		Run: SUB-C104440			07/17/08 11:24			
Barium	0.496	mg/L	0.10	99	85	115			
Boron	0.557	mg/L	0.10	101	85	115			
Chromium	0.485	mg/L	0.050	97	85	115			
Copper	0.460	mg/L	0.010	92	85	115			
Iron	2.43	mg/L	0.030	96	85	115			
Manganese	2.39	mg/L	0.010	95	85	115			
Molybdenum	0.519	mg/L	0.10	99	85	115			
Nickel	0.510	mg/L	0.050	102	85	115			
Zinc	0.484	mg/L	0.010	95	85	115			
Sample ID: R08070244-011D	Sample Matrix Spike		Run: SUB-C104440			07/17/08 11:38			
Barium	0.493	mg/L	0.10	99	70	130			
Boron	0.532	mg/L	0.10	101	70	130			
Chromium	0.486	mg/L	0.050	97	70	130			
Copper	0.461	mg/L	0.010	92	70	130			
Iron	2.43	mg/L	0.030	96	70	130			
Manganese	2.37	mg/L	0.010	95	70	130			
Molybdenum	0.512	mg/L	0.10	102	70	130			
Nickel	0.426	mg/L	0.050	85	70	130			
Zinc	0.489	mg/L	0.010	98	70	130			
Sample ID: R08070244-011D	Sample Matrix Spike Duplicate		Run: SUB-C104440			07/17/08 11:41			
Barium	0.486	mg/L	0.10	97	70	130	1.3	20	
Boron	0.524	mg/L	0.10	99	70	130	1.5	20	
Chromium	0.480	mg/L	0.050	96	70	130	1.2	20	
Copper	0.447	mg/L	0.010	89	70	130	3	20	
Iron	2.42	mg/L	0.030	96	70	130	0.3	20	
Manganese	2.35	mg/L	0.010	94	70	130	0.9	20	
Molybdenum	0.508	mg/L	0.10	102	70	130	0.8	20	
Nickel	0.494	mg/L	0.050	99	70	130	15	20	
Zinc	0.484	mg/L	0.010	97	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19156		
Sample ID: MB-19156	Method Blank		Run: SUB-C104799				07/24/08 20:09		
Barium	ND	mg/L	0.006						
Boron	0.04	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	ND	mg/L	0.001						
Sample ID: LCS3-19156	Laboratory Control Sample		Run: SUB-C104799				07/24/08 20:13		
Barium	0.504	mg/L	0.10	101	85	115			
Boron	0.545	mg/L	0.10	101	85	115			
Chromium	0.510	mg/L	0.050	102	85	115			
Copper	0.512	mg/L	0.010	102	85	115			
Iron	2.63	mg/L	0.030	105	85	115			
Manganese	2.53	mg/L	0.010	101	85	115			
Molybdenum	0.508	mg/L	0.10	102	85	115			
Nickel	0.507	mg/L	0.050	101	85	115			
Strontium	0.507	mg/L	0.10	101	85	115			
Zinc	0.505	mg/L	0.010	101	85	115			
Sample ID: R08070244-011D	Sample Matrix Spike		Run: SUB-C104799				07/25/08 00:33		
Barium	0.529	mg/L	0.10	106	70	130			
Boron	0.545	mg/L	0.10	109	70	130			
Chromium	0.523	mg/L	0.050	105	70	130			
Copper	0.530	mg/L	0.010	106	70	130			
Iron	2.73	mg/L	0.030	108	70	130			
Manganese	2.66	mg/L	0.010	106	70	130			
Molybdenum	0.519	mg/L	0.10	104	70	130			
Nickel	0.521	mg/L	0.050	104	70	130			
Strontium	0.537	mg/L	0.10	107	70	130			
Zinc	0.529	mg/L	0.010	106	70	130			
Sample ID: R08070244-011D	Sample Matrix Spike Duplicate		Run: SUB-C104799				07/25/08 00:37		
Barium	0.528	mg/L	0.10	106	70	130	0.3	20	
Boron	0.549	mg/L	0.10	110	70	130	0.8	20	
Chromium	0.529	mg/L	0.050	106	70	130	1.3	20	
Copper	0.530	mg/L	0.010	106	70	130	0.1	20	
Iron	2.74	mg/L	0.030	109	70	130	0.4	20	
Manganese	2.68	mg/L	0.010	107	70	130	0.6	20	
Molybdenum	0.525	mg/L	0.10	105	70	130	1.1	20	
Nickel	0.526	mg/L	0.050	105	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Project: Edgemont

Report Date: 10/03/08

Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_19156
Sample ID: R08070244-011D	Sample Matrix Spike Duplicate					Run: SUB-C104799			07/25/08 00:37
Strontium	0.531	mg/L	0.10	106	70	130	1	20	
Zinc	0.530	mg/L	0.010	106	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104799		
Sample ID: MB-080724A	Method Blank			Run: SUB-C104799			07/24/08 13:13		
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Manganese	ND	mg/L	0.0003						
Nickel	ND	mg/L	0.004						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080724A	Laboratory Fortified Blank			Run: SUB-C104799			07/24/08 13:17		
Chromium	1.0	mg/L	0.050	105	85	125			
Iron	1.1	mg/L	0.030	109	85	125			
Manganese	1.1	mg/L	0.010	105	85	125			
Nickel	1.0	mg/L	0.050	104	85	125			
Sodium	50	mg/L	0.77	99	85	125			
Vanadium	1.1	mg/L	0.10	106	85	125			
Zinc	1.0	mg/L	0.010	103	85	125			
Sample ID: C08070339-001JMS2	Sample Matrix Spike			Run: SUB-C104799			07/24/08 17:19		
Boron	2.25	mg/L	0.10	103	70	130			
Chromium	2.05	mg/L	0.050	102	70	130			
Copper	2.05	mg/L	0.010	102	70	130			
Iron	2.13	mg/L	0.030	106	70	130			
Manganese	2.26	mg/L	0.010	103	70	130			
Nickel	2.02	mg/L	0.050	101	70	130			
Vanadium	2.17	mg/L	0.10	108	70	130			
Zinc	2.10	mg/L	0.010	105	70	130			
Sodium	144	mg/L	1.5	99	70	130			
Sample ID: C08070339-001JMSD2	Sample Matrix Spike Duplicate			Run: SUB-C104799			07/24/08 17:23		
Boron	2.23	mg/L	0.10	102	70	130	0.9	20	
Chromium	2.02	mg/L	0.050	101	70	130	1.5	20	
Copper	2.01	mg/L	0.010	101	70	130	1.6	20	
Iron	2.10	mg/L	0.030	105	70	130	1.3	20	
Manganese	2.23	mg/L	0.010	101	70	130	1.7	20	
Nickel	1.98	mg/L	0.050	99	70	130	1.7	20	
Vanadium	2.07	mg/L	0.10	103	70	130	4.5	20	
Zinc	2.04	mg/L	0.010	102	70	130	2.9	20	
Sodium	141	mg/L	1.5	97	70	130	1.6	20	
Sample ID: R08070244-010C	Sample Matrix Spike			Run: SUB-C104799			07/24/08 18:16		
Chromium	2.00	mg/L	0.050	100	70	130			
Iron	5.41	mg/L	0.030	102	70	130			
Manganese	4.37	mg/L	0.010	96	70	130			
Nickel	1.95	mg/L	0.050	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 10/03/08

Project: Edgemont

Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R104799		
Sample ID: R08070244-010C	Sample Matrix Spike			Run: SUB-C104799			07/24/08 18:16		
Vanadium	2.07	mg/L	0.10	103	70	130			
Zinc	2.04	mg/L	0.010	102	70	130			
Sodium	185	mg/L	1.5	101	70	130			
Sample ID: R08070244-010C	Sample Matrix Spike Duplicate			Run: SUB-C104799			07/24/08 18:20		
Chromium	1.98	mg/L	0.050	99	70	130	1.1	20	
Iron	5.42	mg/L	0.030	102	70	130	0.2	20	
Manganese	4.38	mg/L	0.010	97	70	130	0.3	20	
Nickel	1.93	mg/L	0.050	97	70	130	1.2	20	
Vanadium	2.03	mg/L	0.10	101	70	130	1.8	20	
Zinc	2.00	mg/L	0.010	100	70	130	1.9	20	
Sodium	183	mg/L	1.5	100	70	130	0.8	20	
Method: E200.7							Batch: C_R104966		
Sample ID: MB-080728A	Method Blank			Run: SUB-C104966			07/28/08 16:33		
Iron	ND	mg/L	0.005						
Sample ID: LFB-080728A	Laboratory Fortified Blank			Run: SUB-C104966			07/28/08 16:37		
Iron	1.0	mg/L	0.030	102	85	125			
Sample ID: R08070244-003C	Sample Matrix Spike			Run: SUB-C104966			07/28/08 16:45		
Iron	2.16	mg/L	0.030	108	70	130			
Sample ID: R08070244-003C	Sample Matrix Spike Duplicate			Run: SUB-C104966			07/28/08 16:49		
Iron	2.13	mg/L	0.030	106	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R107424		
Sample ID: MB-080911A	Method Blank				Run: SUB-C107424			09/11/08 13:08	
Barium	ND	mg/L	0.006						
Boron	0.02	mg/L	0.008						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.005						
Sample ID: LFB-080911A	Laboratory Fortified Blank				Run: SUB-C107424			09/11/08 13:12	
Barium	0.97	mg/L	0.10	97	85	125			
Boron	0.99	mg/L	0.10	96	85	125			
Copper	0.97	mg/L	0.010	97	85	125			
Iron	1.0	mg/L	0.030	104	85	125			
Sample ID: R08070244-002C	Sample Matrix Spike				Run: SUB-C107424			09/11/08 15:47	
Barium	1.98	mg/L	0.10	99	70	130			
Boron	2.08	mg/L	0.10	100	70	130			
Copper	2.04	mg/L	0.010	102	70	130			
Iron	2.64	mg/L	0.030	104	70	130			
Sample ID: R08070244-002C	Sample Matrix Spike Duplicate				Run: SUB-C107424			09/11/08 15:51	
Barium	2.01	mg/L	0.10	100	70	130	1.2	20	
Boron	2.15	mg/L	0.10	104	70	130	3.4	20	
Copper	2.07	mg/L	0.010	104	70	130	1.5	20	
Iron	2.61	mg/L	0.030	102	70	130	1.1	20	
Sample ID: C08081207-001CMS2	Sample Matrix Spike				Run: SUB-C107424			09/11/08 16:56	
Barium	4.92	mg/L	0.10	98	70	130			
Boron	6.10	mg/L	0.10	99	70	130			
Copper	4.99	mg/L	0.026	100	70	130			
Iron	5.37	mg/L	0.030	101	70	130			
Sample ID: C08081207-001CMSD2	Sample Matrix Spike Duplicate				Run: SUB-C107424			09/11/08 17:00	
Barium	4.93	mg/L	0.10	99	70	130	0.3	20	
Boron	6.24	mg/L	0.10	102	70	130	2.2	20	
Copper	5.09	mg/L	0.026	102	70	130	2	20	
Iron	5.52	mg/L	0.030	104	70	130	2.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19156		
Sample ID: MB-19156	Method Blank		Run: SUB-C105057				07/30/08 01:16		
Antimony	ND	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Lead	0.005	mg/L	5E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Thallium	8E-05	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-19156	Laboratory Control Sample		Run: SUB-C105057				07/30/08 01:22		
Antimony	0.542	mg/L	0.050	108	85	115			
Arsenic	0.518	mg/L	0.0010	103	85	115			
Beryllium	0.247	mg/L	0.010	99	85	115			
Cadmium	0.251	mg/L	0.010	101	85	115			
Lead	0.511	mg/L	0.050	101	85	115			
Selenium	0.496	mg/L	0.0020	99	85	115			
Silver	0.0474	mg/L	0.010	95	85	115			
Thallium	0.508	mg/L	0.10	101	85	115			
Uranium	0.527	mg/L	0.00032	105	85	115			
Sample ID: R08070244-011D	Sample Matrix Spike		Run: SUB-C105057				07/30/08 05:40		
Antimony	0.542	mg/L	0.050	108	70	130			
Arsenic	0.507	mg/L	0.0010	101	70	130			
Beryllium	0.247	mg/L	0.010	99	70	130			
Cadmium	0.249	mg/L	0.010	100	70	130			
Lead	0.501	mg/L	0.050	100	70	130			
Selenium	0.499	mg/L	0.0020	99	70	130			
Silver	0.0462	mg/L	0.010	92	70	130			
Thallium	0.494	mg/L	0.10	99	70	130			
Uranium	0.528	mg/L	0.00032	106	70	130			
Sample ID: R08070244-011D	Sample Matrix Spike Duplicate		Run: SUB-C105057				07/30/08 05:46		
Antimony	0.544	mg/L	0.050	109	70	130	0.4	20	
Arsenic	0.504	mg/L	0.0010	101	70	130	0.5	20	
Beryllium	0.242	mg/L	0.010	97	70	130	2.1	20	
Cadmium	0.248	mg/L	0.010	99	70	130	0.5	20	
Lead	0.499	mg/L	0.050	100	70	130	0.4	20	
Selenium	0.492	mg/L	0.0020	98	70	130	1.4	20	
Silver	0.0460	mg/L	0.010	92	70	130	0.4	20	
Thallium	0.497	mg/L	0.10	99	70	130	0.6	20	
Uranium	0.520	mg/L	0.00032	104	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 10/03/08

Project: Edgemont

Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19224
Sample ID: MB-19224	Method Blank								Run: SUB-C104868 07/27/08 03:08
Uranium	2E-05	mg/L							
Sample ID: LCS1-19224	Laboratory Control Sample								Run: SUB-C104868 07/27/08 03:12
Uranium	0.0471	mg/L	0.00030	90	80	120			
Sample ID: R08070244-009I	Post Digestion Spike								Run: SUB-C104868 07/27/08 04:50
Uranium	0.0115	mg/L	0.00030	92	70	130			
Sample ID: R08070244-009I	Post Digestion Spike Duplicate								Run: SUB-C104868 07/27/08 04:54
Uranium	0.0115	mg/L	0.00030	91	70	130	0.6	20	
Method: E200.8									Batch: C_19232
Sample ID: MB-19232	Method Blank								Run: SUB-C104868 07/27/08 04:58
Uranium	6E-05	mg/L							
Sample ID: LCS1-19232	Laboratory Control Sample								Run: SUB-C104868 07/27/08 05:15
Uranium	0.0467	mg/L	0.00030	89	80	120			
Sample ID: C08071003-002KMS4	Post Digestion Spike								Run: SUB-C104868 07/27/08 05:35
Uranium	0.0128	mg/L	0.00030	95	70	130			
Sample ID: C08071003-002KMSD4	Post Digestion Spike Duplicate								Run: SUB-C104868 07/27/08 05:39
Uranium	0.0128	mg/L	0.00030	95	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: LRB	Method Blank		Run: SUB-C104758				07/23/08 12:27		
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	4E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Magnesium	ND	mg/L	0.003						
Manganese	ND	mg/L	6E-06						
Mercury	ND	mg/L	1E-05						
Molybdenum	ND	mg/L	9E-06						
Nickel	ND	mg/L	3E-05						
Uranium	4E-06	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Zinc	0.0001	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104758				07/23/08 12:34		
Aluminum	0.0509	mg/L	0.0010	102	85	115			
Arsenic	0.0497	mg/L	0.0010	99	85	115			
Chromium	0.0503	mg/L	0.0010	101	85	115			
Copper	0.0512	mg/L	0.0010	102	85	115			
Lead	0.0492	mg/L	0.0010	98	85	115			
Magnesium	1.37	mg/L	0.0030	109	85	115			
Manganese	0.0495	mg/L	0.0010	99	85	115			
Mercury	0.00498	mg/L	0.0010	100	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0499	mg/L	0.0010	100	85	115			
Uranium	0.0488	mg/L	0.00030	98	85	115			
Vanadium	0.0492	mg/L	0.0010	98	85	115			
Zinc	0.0533	mg/L	0.0010	106	85	115			
Sample ID: R08070115-005C	Post Digestion Spike		Run: SUB-C104758				07/24/08 08:23		
Aluminum	0.0537	mg/L	0.10	105	70	130			
Arsenic	0.0485	mg/L	0.0010	97	70	130			
Chromium	0.0460	mg/L	0.050	92	70	130			
Copper	0.0480	mg/L	0.010	95	70	130			
Lead	0.0490	mg/L	0.050	98	70	130			
Manganese	0.0553	mg/L	0.010	95	70	130			
Mercury	0.00565	mg/L	0.0010	113	70	130			
Molybdenum	0.0565	mg/L	0.10	96	70	130			
Nickel	0.0473	mg/L	0.050	95	70	130			
Thorium 232	0.0490	mg/L	0.0010	98	70	130			
Uranium	0.0489	mg/L	0.00030	98	70	130			
Vanadium	0.0475	mg/L	0.10	95	70	130			
Zinc	0.0476	mg/L	0.010	93	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: R08070115-005C	Post Digestion Spike				Run: SUB-C104758		07/24/08 08:23		
Magnesium	27.6	mg/L	1.0		70	130			A
Sample ID: R08070115-005C	Post Digestion Spike Duplicate				Run: SUB-C104758		07/24/08 08:30		
Aluminum	0.0549	mg/L	0.10	107	70	130	0	20	
Arsenic	0.0484	mg/L	0.0010	97	70	130	0.3	20	
Chromium	0.0463	mg/L	0.050	93	70	130	0	20	
Copper	0.0484	mg/L	0.010	96	70	130	0.9	20	
Lead	0.0491	mg/L	0.050	98	70	130	0	20	
Manganese	0.0556	mg/L	0.010	95	70	130	0.6	20	
Mercury	0.00533	mg/L	0.0010	106	70	130	5.9	20	
Molybdenum	0.0569	mg/L	0.10	96	70	130	0	20	
Nickel	0.0479	mg/L	0.050	96	70	130	0	20	
Thorium 232	0.0494	mg/L	0.0010	99	70	130	1	20	
Uranium	0.0493	mg/L	0.00030	98	70	130	0.8	20	
Vanadium	0.0481	mg/L	0.10	96	70	130	0	20	
Zinc	0.0493	mg/L	0.010	96	70	130	3.5	20	
Magnesium	27.4	mg/L	1.0		70	130	0.8	20	A
Sample ID: LRB	Method Blank				Run: SUB-C104758		07/23/08 12:27		
Thorium 232	3E-05	mg/L							
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C104758		07/23/08 12:34		
Thorium 232	0.0485	mg/L	0.0010	97	85	115			
Sample ID: R08070244-007C	Post Digestion Spike				Run: SUB-C104758		07/24/08 05:13		
Aluminum	0.0485	mg/L	0.10	97	70	130			
Arsenic	0.0501	mg/L	0.0010	98	70	130			
Chromium	0.0465	mg/L	0.050	93	70	130			
Copper	0.0489	mg/L	0.010	98	70	130			
Lead	0.0492	mg/L	0.050	98	70	130			
Manganese	0.101	mg/L	0.010	96	70	130			
Mercury	0.00479	mg/L	0.0010	98	70	130			
Molybdenum	0.0506	mg/L	0.10	97	70	130			
Nickel	0.0483	mg/L	0.050	97	70	130			
Thorium 232	0.0494	mg/L	0.0010	98	70	130			
Uranium	0.0497	mg/L	0.00030	99	70	130			
Vanadium	0.0487	mg/L	0.10	97	70	130			
Zinc	0.0502	mg/L	0.010	100	70	130			
Magnesium	17.9	mg/L	1.0		70	130			A
Sample ID: R08070244-007C	Post Digestion Spike Duplicate				Run: SUB-C104758		07/24/08 05:20		
Aluminum	0.0507	mg/L	0.10	101	70	130	0	20	
Arsenic	0.0515	mg/L	0.0010	101	70	130	2.7	20	
Chromium	0.0477	mg/L	0.050	95	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104758		
Sample ID: R08070244-007C	Post Digestion Spike Duplicate			Run: SUB-C104758			07/24/08 05:20		
Copper	0.0501	mg/L	0.010	100	70	130	2.4	20	
Lead	0.0505	mg/L	0.050	101	70	130	2.6	20	
Manganese	0.102	mg/L	0.010	99	70	130	1.6	20	
Mercury	0.00495	mg/L	0.0010	101	70	130	3.2	20	
Molybdenum	0.0535	mg/L	0.10	102	70	130	0	20	
Nickel	0.0495	mg/L	0.050	99	70	130	0	20	
Thorium 232	0.0510	mg/L	0.0010	102	70	130	3.2	20	
Uranium	0.0510	mg/L	0.00030	102	70	130	2.6	20	
Vanadium	0.0499	mg/L	0.10	100	70	130	0	20	
Zinc	0.0487	mg/L	0.010	97	70	130	3.2	20	
Magnesium	19.2	mg/L	1.0		70	130	7.1	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: LRB	Method Blank		Run: SUB-C104869				07/25/08 17:21		
Arsenic	ND	mg/L	4E-05						
Cadmium	ND	mg/L	3E-06						
Chromium	ND	mg/L	4E-05						
Lead	ND	mg/L	3E-06						
Mercury	8E-05	mg/L	1E-05						
Nickel	ND	mg/L	3E-05						
Silver	0.0006	mg/L	7E-06						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104869				07/25/08 17:28		
Arsenic	0.0515	mg/L	0.0010	103	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Chromium	0.0515	mg/L	0.0010	103	85	115			
Lead	0.0514	mg/L	0.0010	103	85	115			
Mercury	0.00522	mg/L	0.0010	103	85	115			
Nickel	0.0514	mg/L	0.0010	103	85	115			
Silver	0.0185	mg/L	0.0010	89	85	115			
Vanadium	0.0513	mg/L	0.0010	102	85	115			
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C104869				07/25/08 17:28		
Thorium 232	0.0473	mg/L	0.0010	95	85	115			
Sample ID: R08070220-001C	Post Digestion Spike		Run: SUB-C104869				07/26/08 07:58		
Arsenic	0.0671	mg/L	0.0010	101	70	130			
Barium	0.0654	mg/L	0.10	102	70	130			
Cadmium	0.0474	mg/L	0.010	95	70	130			
Chromium	0.0489	mg/L	0.050	98	70	130			
Copper	0.0513	mg/L	0.010	92	70	130			
Iron	22.4	mg/L	0.030		70	130			A
Lead	0.0502	mg/L	0.050	100	70	130			
Manganese	1.51	mg/L	0.010		70	130			A
Mercury	0.00539	mg/L	0.0010	108	70	130			
Molybdenum	0.0692	mg/L	0.10	99	70	130			
Nickel	0.0601	mg/L	0.050	96	70	130			
Silver	0.0153	mg/L	0.010	77	70	130			
Thorium 232	0.0532	mg/L	0.0010	106	70	130			
Vanadium	0.0503	mg/L	0.10	101	70	130			
Zinc	0.0555	mg/L	0.010	90	70	130			
Sample ID: R08070220-001C	Post Digestion Spike Duplicate		Run: SUB-C104869				07/26/08 08:05		
Arsenic	0.0627	mg/L	0.0010	92	70	130	6.9	20	
Barium	0.0658	mg/L	0.10	102	70	130	0	20	
Cadmium	0.0476	mg/L	0.010	95	70	130	0.4	20	
Chromium	0.0452	mg/L	0.050	90	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104869		
Sample ID: R08070220-001C	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 08:05		
Copper	0.0478	mg/L	0.010	85	70	130	7	20	
Iron	21.9	mg/L	0.030		70	130	2.5	20	A
Lead	0.0505	mg/L	0.050	101	70	130	0.6	20	
Manganese	1.52	mg/L	0.010		70	130	0.8	20	A
Mercury	0.00553	mg/L	0.0010	111	70	130	2.6	20	
Molybdenum	0.0686	mg/L	0.10	98	70	130	0	20	
Nickel	0.0586	mg/L	0.050	93	70	130	2.5	20	
Silver	0.0148	mg/L	0.010	74	70	130	3.3	20	
Thorium 232	0.0534	mg/L	0.0010	107	70	130	0.5	20	
Vanadium	0.0468	mg/L	0.10	94	70	130	0	20	
Zinc	0.0501	mg/L	0.010	79	70	130	10	20	
Sample ID: R08070244-010C	Post Digestion Spike			Run: SUB-C104869			07/26/08 01:19		
Arsenic	0.0516	mg/L	0.0010	102	70	130			
Cadmium	0.0488	mg/L	0.010	98	70	130			
Chromium	0.0496	mg/L	0.050	99	70	130			
Lead	0.0509	mg/L	0.050	102	70	130			
Mercury	0.00507	mg/L	0.0010	101	70	130			
Nickel	0.0547	mg/L	0.050	97	70	130			
Silver	0.0184	mg/L	0.010	92	70	130			
Thorium 232	0.0538	mg/L	0.0010	107	70	130			
Vanadium	0.0513	mg/L	0.10	103	70	130			
Sample ID: R08070244-010C	Post Digestion Spike Duplicate			Run: SUB-C104869			07/26/08 01:26		
Arsenic	0.0513	mg/L	0.0010	102	70	130	0.5	20	
Cadmium	0.0491	mg/L	0.010	98	70	130	0.7	20	
Chromium	0.0495	mg/L	0.050	99	70	130	0	20	
Lead	0.0510	mg/L	0.050	102	70	130	0.2	20	
Mercury	0.00520	mg/L	0.0010	104	70	130	2.4	20	
Nickel	0.0543	mg/L	0.050	96	70	130	0.8	20	
Silver	0.0191	mg/L	0.010	95	70	130	3.3	20	
Thorium 232	0.0497	mg/L	0.0010	99	70	130	8	20	
Vanadium	0.0513	mg/L	0.10	102	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R104980		
Sample ID: LRB	Method Blank			Run: SUB-C104980			07/28/08 12:17		
Chromium	ND	mg/L	4E-05						
Manganese	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Uranium	3E-05	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C104980			07/28/08 12:24		
Chromium	0.0529	mg/L	0.0010	106	85	115			
Manganese	0.0525	mg/L	0.0010	105	85	115			
Nickel	0.0517	mg/L	0.0010	103	85	115			
Silver	0.0200	mg/L	0.0010	100	85	115			
Uranium	0.0520	mg/L	0.00030	104	85	115			
Vanadium	0.0522	mg/L	0.0010	104	85	115			
Sample ID: R08070244-011C	Post Digestion Spike			Run: SUB-C104980			07/28/08 17:41		
Chromium	0.0519	mg/L	0.050	103	70	130			
Manganese	0.0535	mg/L	0.010	104	70	130			
Nickel	0.0495	mg/L	0.050	99	70	130			
Silver	0.0140	mg/L	0.010	70	70	130			
Uranium	0.0506	mg/L	0.00030	101	70	130			
Vanadium	0.0513	mg/L	0.10	102	70	130			
Sample ID: R08070244-011C	Post Digestion Spike Duplicate			Run: SUB-C104980			07/28/08 18:15		
Chromium	0.0506	mg/L	0.050	100	70	130	2.6	20	
Manganese	0.0524	mg/L	0.010	102	70	130	2.2	20	
Nickel	0.0490	mg/L	0.050	98	70	130	0	20	
Silver	0.0156	mg/L	0.010	78	70	130	10	20	
Uranium	0.0502	mg/L	0.00030	100	70	130	0.8	20	
Vanadium	0.0502	mg/L	0.10	100	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105126		
Sample ID: LRB	Method Blank		Run: SUB-C105126			07/30/08 16:46			
Arsenic	8E-05	mg/L	6E-05						
Nickel	ND	mg/L	0.0007						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C105126			07/30/08 16:53			
Arsenic	0.0513	mg/L	0.0010	102	85	115			
Nickel	0.0512	mg/L	0.0010	102	85	115			
Uranium	0.0518	mg/L	0.00030	104	85	115			
Sample ID: C08070851-010BMS4	Post Digestion Spike		Run: SUB-C105126			07/30/08 18:41			
Arsenic	0.0513	mg/L	0.0010	102	70	130			
Nickel	0.0513	mg/L	0.050	103	70	130			
Uranium	0.0502	mg/L	0.00030	100	70	130			
Sample ID: C08070851-010BMSD4	Post Digestion Spike Duplicate		Run: SUB-C105126			07/30/08 18:48			
Arsenic	0.0510	mg/L	0.0010	102	70	130	0.6	20	
Nickel	0.0500	mg/L	0.050	100	70	130	2.6	20	
Uranium	0.0510	mg/L	0.00030	102	70	130	1.6	20	
Sample ID: C08070821-004BMS4	Post Digestion Spike		Run: SUB-C105126			07/30/08 20:29			
Arsenic	0.0692	mg/L	0.0010	103	70	130			
Nickel	0.0484	mg/L	0.050	94	70	130			
Uranium	10.8	mg/L	0.00030		70	130			A
Sample ID: C08070821-004BMSD4	Post Digestion Spike Duplicate		Run: SUB-C105126			07/30/08 20:36			
Arsenic	0.0684	mg/L	0.0010	101	70	130	1.1	20	
Nickel	0.0480	mg/L	0.050	93	70	130	0	20	
Uranium	11.4	mg/L	0.00030		70	130	5.8	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105162		
Sample ID: LRB	Method Blank				Run: SUB-C105162		07/31/08 12:55		
Cadmium	ND	mg/L	3E-06						
Silver	0.0004	mg/L	7E-06						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C105162		07/31/08 13:02		
Cadmium	0.0499	mg/L	0.0010	100	85	115			
Silver	0.0196	mg/L	0.0010	96	85	115			
Sample ID: C08070680-001CMS4	Post Digestion Spike				Run: SUB-C105162		07/31/08 18:14		
Cadmium	0.0473	mg/L	0.010	95	70	130			
Silver	0.0137	mg/L	0.010	69	70	130			S
Sample ID: C08070707-001BMS4	Post Digestion Spike				Run: SUB-C105162		07/31/08 19:07		
Cadmium	0.505	mg/L	0.010	101	70	130			
Silver	0.119	mg/L	0.010	60	70	130			S
Sample ID: C08070707-001BMSD4	Post Digestion Spike Duplicate				Run: SUB-C105162		07/31/08 19:14		
Cadmium	0.492	mg/L	0.010	98	70	130	2.6	20	
Silver	0.122	mg/L	0.010	61	70	130	1.9	20	S
Sample ID: C08070680-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C105162		07/31/08 18:47		
Cadmium	0.0474	mg/L	0.010	95	70	130	0.2	20	
Silver	0.0119	mg/L	0.010	59	70	130	14	20	S
Method: E245.1							Batch: B_33680		
Sample ID: MB-33680	Method Blank				Run: SUB-B114551		07/23/08 14:30		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33680	Laboratory Fortified Blank				Run: SUB-B114551		07/23/08 14:33		
Mercury	0.0022	mg/L	0.0010	109	85	115			
Sample ID: R08070238-006F	Sample Matrix Spike				Run: SUB-B114551		07/23/08 15:08		
Mercury	0.0022	mg/L	0.0010	108	70	130			
Sample ID: R08070238-006F	Sample Matrix Spike Duplicate				Run: SUB-B114551		07/23/08 15:10		
Mercury	0.0021	mg/L	0.0010	105	70	130	2.8	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36127		
Sample ID: LFB0807153729-3	Laboratory Fortified Blank			Run: DIONEX_080716A			07/16/08 08:56		
Chloride	4.80	mg/L	0.50	96	90	110			
Fluoride	1.81	mg/L	0.10	91	90	110			
Nitrogen, Nitrate as N	2.37	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.51	mg/L	0.10	100	90	110			
Sulfate	14.3	mg/L	1.0	96	90	110			
Sample ID: LFB0807153729-4	Laboratory Fortified Blank			Run: DIONEX_080716A			07/16/08 09:12		
Chloride	4.93	mg/L	0.50	99	90	110			
Fluoride	1.87	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.58	mg/L	0.10	103	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0807153729-5	Laboratory Fortified Blank			Run: DIONEX_080716A			07/16/08 09:29		
Chloride	4.94	mg/L	0.50	99	90	110			
Fluoride	1.87	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.58	mg/L	0.10	103	90	110			
Sulfate	14.8	mg/L	1.0	98	90	110			
Sample ID: R08070244-001AMS	Sample Matrix Spike			Run: DIONEX_080716A			07/16/08 13:02		
Chloride	257	mg/L	5.4	94	80	120			
Fluoride	94.0	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	97	80	120			
Nitrogen, Nitrite as N	129	mg/L	2.9	103	80	120			
Sulfate	1150	mg/L	3.4	90	80	120			
Sample ID: R08070244-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080716A			07/16/08 13:18		
Chloride	250	mg/L	5.4	92	80	120	2.5	10	
Fluoride	91.4	mg/L	0.56	82	80	120	2.8	10	
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120	3.3	10	
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120	2.9	10	
Sulfate	1160	mg/L	3.4	91	80	120	0.6	10	
Sample ID: R08070244-005AMS	Sample Matrix Spike			Run: DIONEX_080716A			07/16/08 16:19		
Chloride	256	mg/L	5.4	94	80	120			
Fluoride	93.9	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	121	mg/L	1.3	97	80	120			
Nitrogen, Nitrite as N	129	mg/L	2.9	103	80	120			
Sulfate	1180	mg/L	3.4	87	80	120			
Sample ID: R08070244-005AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080716A			07/16/08 16:35		
Chloride	254	mg/L	5.4	93	80	120	0.5	10	
Fluoride	93.4	mg/L	0.56	84	80	120	0.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36127		
Sample ID: R08070244-005AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080716A			07/16/08 16:35		
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120	1.3	10	
Nitrogen, Nitrite as N	127	mg/L	2.9	102	80	120	1.4	10	
Sulfate	1190	mg/L	3.4	88	80	120	0.7	10	
Sample ID: R08070244-009AMS	Sample Matrix Spike			Run: DIONEX_080716A			07/16/08 19:36		
Chloride	262	mg/L	5.4	94	80	120			
Fluoride	104	mg/L	0.56	95	80	120			
Nitrogen, Nitrate as N	121	mg/L	1.3	96	80	120			
Nitrogen, Nitrite as N	127	mg/L	2.9	102	80	120			
Sulfate	1170	mg/L	3.4	87	80	120			
Sample ID: R08070244-009AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080716A			07/16/08 19:52		
Chloride	254	mg/L	5.4	91	80	120	3.2	10	
Fluoride	92.0	mg/L	0.56	83	80	120	12	10	R
Nitrogen, Nitrate as N	117	mg/L	1.3	93	80	120	3.2	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	99	80	120	2.9	10	
Sulfate	1130	mg/L	3.4	82	80	120	3.4	10	
Method: E900.0							Batch: C_GrAB-0510		
Sample ID: MB-GrAB-0510	Method Blank			Run: SUB-C107110			09/04/08 06:47		
Gross Alpha	-0.1	pCi/L							U
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0510	Laboratory Control Sample			Run: SUB-C107110			09/04/08 06:47		
Gross Alpha	120	pCi/L	87		70	130			
Sample ID: Cs137-GrAB-0510	Laboratory Control Sample			Run: SUB-C107110			09/04/08 06:47		
Gross Beta	77	pCi/L	84		70	130			
Sample ID: C08070835-001AMS	Sample Matrix Spike			Run: SUB-C107110			09/04/08 18:47		
Gross Alpha	128	pCi/L	92		70	130			
Sample ID: C08070835-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C107110			09/04/08 18:47		
Gross Alpha	121	pCi/L	88		70	130	5.2	16.7	
Sample ID: C08070835-001AMS	Sample Matrix Spike			Run: SUB-C107110			09/04/08 18:47		
Gross Beta	76.3	pCi/L	86		70	130			
Sample ID: C08070835-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-C107110			09/04/08 18:47		
Gross Beta	74.2	pCi/L	84		70	130	2.8	16.1	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_R106566		
Sample ID: R08070244-011H	Sample Matrix Spike				Run: SUB-C106566			08/18/08 10:05	
Gross Alpha	130	pCi/L		97	70	130			
Sample ID: R08070244-011H	Sample Matrix Spike Duplicate				Run: SUB-C106566			08/18/08 10:05	
Gross Alpha	120	pCi/L		90	70	130	7.6	30	
Sample ID: MB-R106566	Method Blank				Run: SUB-C106566			08/18/08 10:05	
Gross Alpha	0.2	pCi/L							
Sample ID: LCS-R106566	Laboratory Control Sample				Run: SUB-C106566			08/18/08 10:05	
Gross Alpha	140	pCi/L		98	70	130			
Method: E901.1							Batch: C_R104840		
Sample ID: LCS-R104840	Laboratory Control Sample				Run: SUB-C104840			07/17/08 13:12	
Americium 241	230000	pCi/L	20	75	70	130			
Cesium 137	460000	pCi/L	20	106	70	130			
Cobalt 60	320000	pCi/L	20	101	70	130			
Sample ID: MB-R104840	Method Blank				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	ND	pCi/L							U
Sample ID: R08070244-011H	Sample Duplicate				Run: SUB-C104840			07/17/08 13:12	
Gross Gamma	ND	pCi/L	20				0	30	
Method: E903.0							Batch: C_19224		
Sample ID: C08070719-001EMS	Sample Matrix Spike				Run: SUB-C105486			08/06/08 15:36	
Radium 226	140	pCi/L		87	70	130			
Sample ID: C08070719-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C105486			08/06/08 15:36	
Radium 226	130	pCi/L		79	70	130	7.8	29.9	
Sample ID: MB-19224	Method Blank				Run: SUB-C105486			08/06/08 17:08	
Radium 226	-2	pCi/L							U
Sample ID: LCS-19224	Laboratory Control Sample				Run: SUB-C105486			08/06/08 17:08	
Radium 226	58	pCi/L		76	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: C_19232									
Sample ID: R08070244-010I Radium 226	Sample Matrix Spike 44	pCi/L		100	70	130			08/11/08 09:37
Sample ID: R08070244-010I Radium 226	Sample Matrix Spike Duplicate 43	pCi/L		97	70	130	2.1	24.1	08/11/08 09:37
Sample ID: MB-19232 Radium 226	Method Blank -1	pCi/L							08/11/08 11:25 U
Sample ID: LCS-19232 Radium 226	Laboratory Control Sample 86	pCi/L		104	70	130			08/11/08 14:02
Method: E903.0 Batch: C_RA226-2985									
Sample ID: MB-RA226-2985 Radium 226	Method Blank -0.2	pCi/L							08/12/08 16:42 U
Sample ID: LCS-RA226-2985 Radium 226	Laboratory Control Sample 8.2	pCi/L		106	70	130			08/12/08 16:42
Method: E907.0 Batch: C_19224									
Sample ID: C08070680-001IMS Thorium 230	Sample Matrix Spike 19.8	pCi/L	0.20	88	70	130			08/04/08 22:05
Sample ID: C08070680-001IMSD Thorium 230	Sample Matrix Spike Duplicate 23.7	pCi/L	0.20	103	70	130	18	30	08/04/08 22:05
Sample ID: LCS-19224 Thorium 230	Laboratory Control Sample 44.9	pCi/L	0.20	92	70	130			08/05/08 12:51
Sample ID: MB-19224 Thorium 230	Method Blank 0.04	pCi/L							08/05/08 12:51 U
Method: E907.0 Batch: C_19232									
Sample ID: C08071003-001KMS Thorium 230	Sample Matrix Spike 22.3	pCi/L	0.20	96	70	130			08/10/08 17:23
Sample ID: C08071003-001KMSD Thorium 230	Sample Matrix Spike Duplicate 21.3	pCi/L	0.20	90	70	130	4.3	30	08/10/08 17:23
Sample ID: LCS-19232 Thorium 230	Laboratory Control Sample 45.0	pCi/L	0.20	88	70	130			08/10/08 17:23
Sample ID: MB-19232 Thorium 230	Method Blank 0.1	pCi/L							08/10/08 21:35 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0598		
Sample ID: LCS-RA-TH-ISO-0598	Laboratory Control Sample				Run: SUB-C106251				08/13/08 00:45
Thorium 230	6.45	pCi/L	0.20	105	70	130			
Sample ID: R08070244-001H	Sample Matrix Spike				Run: SUB-C106251				08/13/08 12:43
Thorium 230	16.1	pCi/L	0.20	99	70	130			
Sample ID: R08070244-001H	Sample Matrix Spike Duplicate				Run: SUB-C106251				08/13/08 12:43
Thorium 230	16.8	pCi/L	0.20	103	70	130	4.4	30	
Sample ID: MB-RA-TH-ISO-0598	Method Blank				Run: SUB-C106251				08/13/08 17:32
Thorium 230	0.02	pCi/L							U
Method: E909.0M							Batch: C_19224		
Sample ID: C08070547-007IMS	Sample Matrix Spike				Run: SUB-C106081				07/29/08 09:30
Lead 210	930	pCi/L		79	70	130			
Sample ID: C08070547-007IMSD	Sample Matrix Spike Duplicate				Run: SUB-C106081				07/29/08 09:30
Lead 210	1400	pCi/L		117	70	130	39	30	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R106081	Method Blank				Run: SUB-C106081				07/29/08 09:30
Lead 210	5	pCi/L							U
Sample ID: LCS-R106081	Laboratory Control Sample				Run: SUB-C106081				07/29/08 09:30
Lead 210	110	pCi/L		87	70	130			
Method: E909.0M							Batch: C_19232		
Sample ID: C08070935-001FMS	Sample Matrix Spike				Run: SUB-C106570				08/11/08 09:30
Lead 210	1200	pCi/L		100	70	130			
Sample ID: C08070935-001FMDS	Sample Matrix Spike Duplicate				Run: SUB-C106570				08/11/08 09:30
Lead 210	1300	pCi/L		107	70	130	7.4	30	
Sample ID: MB-R106570	Method Blank				Run: SUB-C106570				08/11/08 09:30
Lead 210	1	pCi/L							U
Sample ID: LCS-R106570	Laboratory Control Sample				Run: SUB-C106570				08/11/08 09:30
Lead 210	140	pCi/L		117	70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R105965		
Sample ID: R08070244-003H Lead 210	Sample Matrix Spike 510	pCi/L		88	70	130			07/25/08 11:45
Sample ID: R08070244-003H Lead 210	Sample Matrix Spike Duplicate 560	pCi/L		95	70	130	8	30	07/25/08 11:45
Sample ID: R08070244-006H Lead 210	Sample Duplicate -3.1	pCi/L					43	30	R
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R105965 Lead 210	Method Blank -1	pCi/L							U
Sample ID: LCS-R105965 Lead 210	Laboratory Control Sample 130	pCi/L		110	70	130			07/25/08 11:45
Method: RMO-3008							Batch: C_19224		
Sample ID: R08070244-009I Polonium 210	Sample Matrix Spike 50	pCi/L	1.0	119	70	130			07/31/08 14:15
Sample ID: R08070244-009I Polonium 210	Sample Matrix Spike Duplicate 44	pCi/L	1.0	104	70	130	14	30	07/31/08 14:15
Sample ID: LCS-R105583 Polonium 210	Laboratory Control Sample 80	pCi/L	1.0	93	70	130			07/31/08 14:15
Sample ID: MB-R105583 Polonium 210	Method Blank 0.2	pCi/L							U
Method: RMO-3008							Batch: C_19232		
Sample ID: C08071003-002KMS Polonium 210	Sample Matrix Spike 39	pCi/L	1.0	95	70	130			08/08/08 16:32
Sample ID: C08071003-002KMSD Polonium 210	Sample Matrix Spike Duplicate 44	pCi/L	1.0	109	70	130	13	30	08/08/08 16:32
Sample ID: LCS-19232 Polonium 210	Laboratory Control Sample 86	pCi/L	1.0	105	70	130			08/08/08 16:32
Sample ID: MB-19232 Polonium 210	Method Blank 0.6	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070244

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_PO210-0122		
Sample ID: C08070897-005DMS	Sample Matrix Spike					Run: SUB-C105573			08/07/08 14:50
Polonium 210	80	pCi/L	1.0	90	70	130			
Sample ID: C08070897-005DMSD	Sample Matrix Spike Duplicate					Run: SUB-C105573			08/07/08 14:50
Polonium 210	87	pCi/L	1.0	98	70	130	8.1	30	
Sample ID: MB-PO210-0122	Method Blank					Run: SUB-C105573			08/07/08 17:07
Polonium 210	0.4	pCi/L							U
Sample ID: LCS-R105573	Laboratory Control Sample					Run: SUB-C105573			08/04/08 03:45
Polonium 210	42	pCi/L	1.0	97	70	130			
Method: SW7470A							Analytical Run: SUB-B114551		
Sample ID: QCS	Initial Calibration Verification Standard								07/23/08 08:21
Mercury	0.0021	mg/L	0.0010	105	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. Southfork DB		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Cory Foreman @ respec.com		Email:	Sampler: (Please Print) Eric Kuntz
Invoice Address:		Phone/Fax:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - EII must be notified prior to sample submittal for the following:			ANALYSIS REQUESTED		
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POT/WW/WTP <input type="checkbox"/> State: <input type="checkbox"/> Other:			<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NEIAC		
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	Number of Containers Sample Type: AWS VBO Air Water Soils/Solids Vegetation Bioassay Other
1 Dew Burd GW 622		7/14/08	12:35	W	SEE ATTACHED Normal Turnaround (TAT)
2 Dew Burd GW 615		7/14/08	11:50	W	
3 Dew Burd GW 695		7/14/08	13:42	W	
4 Dew Burd GW 696		7/14/08	15:10	W	
5 Dew Burd GW 694		7/14/08	15:30	W	
6 Dew Burd GW 697		7/14/08	15:52	W	
7 Dew Burd GW 697		7/14/08	15:57	W	
8 Dew Burd GW 689		7/14/08	16:50	W	
9 Dew Burd GW 681		7/14/08	17:04	W	
10 Dew Burd GW 698		7/14/08	18:43	W	
Custody Record Must be Signed		Relinquished by (Print): Eric Kuntz	Date/Time: 7/14/08 8:15:30	Signature: <i>[Signature]</i>	Received by (Print): Eric Kuntz
Sample Disposal:		Return to Client:		Lab Disposal:	

Handwritten notes:
 All per [unclear]
 RUSH
 Comments: All GW

LABORATORY USE ONLY

Shipped by: _____
 Cooler ID#: _____
 Receipt Temp: **5.1 °C**
 On Ice: Yes No
 Custody Seal: N I N
 Intact: N I N
 Signature: N I N

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be sub-contracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: **RESPEC**
 Project Name, PWS, Permit, Etc.: **Powerbel DB**
 Sample Origin State: **SD**
 EPA/State Compliance: Yes No

Report Mail Address:
 Contact Name: **Cory Foreman** Phone/Fax: _____
 Email: **cforeman@respec.com**
 Sampler: (Please Print) **Eric Knitz**

Invoice Address:
 Invoice Contact & Phone:
 Purchase Order:
 Quoter/Bottle Order:

Special Report/Formats - ELL must be notified prior to sample submittal for the following:
 DW A2LA EDD/EDT (Electronic Data)
 GSA POTW/WWTP Format: _____
 State: _____ LEVEL IV
 Other: _____ NELAC

Number of Containers: _____
 Sample Type: AWS VB O
 Air Water Soils/Solids Vegetation Bioassay Other

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED		SEE ATTACHED Normal Turnaround (TAT)	RUSH Comments: GW	Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: Cooler Req: Recept'l Temp 5.1 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Signature Match: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
				LABORATORY USE ONLY	LABORATORY USE ONLY					
1 Denver Denver GNLK	7/14/08	18:00	W							
2										
3										
4										
5										
6										
7										
8										
9										
10										

Rediquashed by (print): **Eric Knitz** Date/Time: **7/14/08 21:30** Signature: *[Signature]*
 Refiquashed by (print): **Dustin Knitz** Date/Time: **7/14/08 9:45** Signature: *[Signature]*
 Received by (print): **Dustin Knitz** Date/Time: **7-14-08/9:45** Signature: *[Signature]*
 Received by Laboratory: **Steve Toland** Date/Time: **7-15-08 8:00** Signature: *[Signature]*

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 03, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08070471 Quote ID: R286

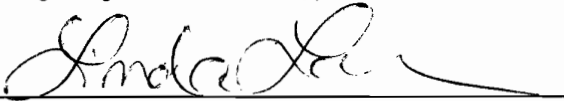
Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 7/29/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070471-001	DewBurd GW688	07/28/08 15:45	07/29/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070471

Date: 03-Oct-08

CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 7/29/2008 8:45:00 AM. These samples were assigned ELI Workorder Number R08070471.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08071390

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08071390



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070471-001
 Client Sample ID: DewBurd GW688

Report Date: 10/03/08
 Collection Date: 07/28/08 15:45
 Date Received: 07/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	160	mg/L		5		1	A2320 B 08/01/08 14:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 08/01/08 14:53/mb
Bicarbonate as HCO3	195	mg/L		5		1	A2320 B 08/01/08 14:53/mb
Calcium	50.0	mg/L		0.5		2	E200.7 08/06/08 16:19/eli-c
Chloride	11	mg/L		1		1	E300.0 07/30/08 20:37/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 07/30/08 20:37/jmh
Magnesium	21.1	mg/L		0.5		2	E200.7 08/06/08 16:19/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 07/30/08 13:55/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 07/30/08 20:37/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 07/30/08 20:37/jmh
Potassium	12.0	mg/L		0.5		2	E200.7 08/06/08 16:19/eli-c
Silica	4.1	mg/L		0.5		2	E200.7 08/06/08 16:19/eli-c
Sodium	183	mg/L	D	2		2	E200.7 08/06/08 16:19/eli-c
Sulfate	445	mg/L	D	3		50	E300.0 07/30/08 20:21/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1280	umhos/cm		5.0		1	A2510 B 08/01/08 08:53/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B 08/04/08 00:00/jmh
pH	8.21	s.u.		0.01		1	A4500-H B 08/04/08 15:37/tb
Sodium Adsorption Ratio (SAR)	5.5	unitless		0.10		1	Calculation 09/29/08 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	790	mg/L		5		1	A2540 C 07/31/08 12:00/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 08/06/08 16:19/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 08/11/08 16:15/eli-c
Barium	ND	mg/L		0.1		1	E200.8 08/05/08 20:29/eli-c
Boron	ND	mg/L		0.1		2	E200.7 08/06/08 16:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 08/05/08 20:29/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 08/05/08 20:29/eli-c
Copper	ND	mg/L		0.01		1	E200.8 08/05/08 20:29/eli-c
Iron	0.05	mg/L		0.03		2	E200.7 08/06/08 16:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8 08/05/08 20:29/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8 08/05/08 20:29/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 08/05/08 20:29/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 08/05/08 20:29/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 08/05/08 20:29/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 08/15/08 15:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8 08/11/08 16:15/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 08/05/08 20:29/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070471-001
 Client Sample ID: DewBurd GW688

Report Date: 10/03/08
 Collection Date: 07/28/08 15:45
 Date Received: 07/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	08/05/08 20:29/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	08/05/08 20:29/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	08/05/08 20:29/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	08/09/08 01:05/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/15/08 11:57/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	08/15/08 15:52/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	3.9	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Gross Alpha precision (±)	2.0	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Gross Alpha MDC	2.8	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Gross Beta	14.3	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Gross Beta precision (±)	2.3	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Gross Beta MDC	3.5	pCi/L				1 E900.0	09/06/08 01:18/eli-c
Lead 210	-6	pCi/L	U			1 E909.0M	08/28/08 09:57/eli-c
Lead 210 precision (±)	7.3	pCi/L				1 E909.0M	08/28/08 09:57/eli-c
Lead 210 MDC	12.5	pCi/L				1 E909.0M	08/28/08 09:57/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1 RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1 RMO-3008	08/21/08 17:30/eli-c
Radium 226	0.6	pCi/L				1 E903.0	08/27/08 15:35/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/27/08 15:35/eli-ca
Radium 226 MDC	0.3	pCi/L				1 E903.0	08/27/08 15:35/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	08/20/08 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	08/20/08 16:00/eli-c
Gross Gamma	950	pCi/L		20		1 E901.1	08/08/08 07:23/eli-c
Gross Gamma precision (±)	160	pCi/L				1 E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.6	pCi/L	U			1 E909.0M	08/21/08 10:15/eli-c
Lead 210 precision (±)	7.1	pCi/L				1 E909.0M	08/21/08 10:15/eli-c
Lead 210 MDC	11.9	pCi/L				1 E909.0M	08/21/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	09/03/08 17:30/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1 RMO-3008	09/03/08 17:30/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	08/18/08 17:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	08/18/08 17:41/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08070471-001
 Client Sample ID: DewBurd GW688

Report Date: 10/03/08
 Collection Date: 07/28/08 15:45
 Date Received: 07/29/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.6	pCi/L					1	E903.0	08/18/08 17:41/eli-c
Thorium 230	0.2	pCi/L	U	0.2			1	E907.0	08/22/08 10:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	08/22/08 10:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1160	pCi/L		100			1	D5072-92	08/01/08 13:44/eli-c
Radon 222 precision (±)	127	pCi/L					1	D5072-92	08/01/08 13:44/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	08/06/08 15:43/eli-c
Arsenic	0.015	mg/L		0.001			10	E200.8	08/11/08 19:20/eli-c
Barium	ND	mg/L		0.1			10	E200.8	08/06/08 15:43/eli-c
Beryllium	ND	mg/L		0.001			10	E200.8	08/11/08 19:20/eli-c
Boron	ND	mg/L		0.1			2	E200.7	08/05/08 20:02/eli-c
Cadmium	ND	mg/L		0.005			10	E200.8	08/06/08 15:43/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	08/05/08 20:02/eli-c
Copper	ND	mg/L		0.01			2	E200.7	08/05/08 20:02/eli-c
Iron	0.14	mg/L		0.03			2	E200.7	08/05/08 20:02/eli-c
Lead	ND	mg/L		0.001			10	E200.8	08/06/08 15:43/eli-c
Manganese	0.05	mg/L		0.01			2	E200.7	08/05/08 20:02/eli-c
Mercury	ND	mg/L		0.0002			1	E245.1	08/05/08 13:50/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	08/05/08 20:02/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	08/05/08 20:02/eli-c
Selenium	ND	mg/L		0.001			10	E200.8	08/11/08 19:20/eli-c
Silver	ND	mg/L		0.005			10	E200.8	08/06/08 15:43/eli-c
Strontium	1.2	mg/L		0.1			2	E200.7	08/05/08 20:02/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	08/06/08 15:43/eli-c
Uranium	ND	mg/L		0.0003			10	E200.8	08/11/08 19:20/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	08/05/08 20:02/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.16	%					1	A1030 E	09/29/08 00:00/jmh
Anions	12.8	meq/L					1	A1030 E	09/29/08 00:00/jmh
Cations	12.5	meq/L					1	A1030 E	09/29/08 00:00/jmh
Solids, Total Dissolved Calculated	830	mg/L					1	A1030 E	09/29/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	09/29/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080801A-ALK-SEL-W		
Sample ID: LCS1_080801A	Laboratory Control Sample								
Alkalinity, Total as CaCO3	940	mg/L	5.0	94	90	110			Run: PH_COND1-R_080801A 08/01/08 14:01
Sample ID: MBLK1_080801A	Method Blank								
Alkalinity, Total as CaCO3	ND	mg/L	3						Run: PH_COND1-R_080801A 08/01/08 14:02
Method: A2510 B							Batch: 080801_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080801	Laboratory Control Sample								
Conductivity @ 25 C	1420	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080801A 08/01/08 08:42
Sample ID: LCS1-1_080801	Laboratory Control Sample								
Conductivity @ 25 C	152	umhos/cm	5.0	101	90	110			Run: PH_COND2-R_080801A 08/01/08 08:44
Sample ID: LCS2-1_080801	Laboratory Control Sample								
Conductivity @ 25 C	4920	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_080801A 08/01/08 08:45
Sample ID: MBLK-1_080801	Method Blank								
Conductivity @ 25 C	ND	umhos/cm	5						Run: PH_COND2-R_080801A 08/01/08 08:46
Sample ID: R08070503-001ADUP	Sample Duplicate								
Conductivity @ 25 C	4010	umhos/cm	5.0				1	10	Run: PH_COND2-R_080801A 08/01/08 08:56
Method: A2540 C							Batch: 080731A-SLDS-TDS-W		
Sample ID: LCS1_080731A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	230	mg/L	5.0	116	90	110			Run: BAL-4-R_080731A 07/31/08 11:39 S
Sample ID: MBLK1_080731A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						Run: BAL-4-R_080731A 07/31/08 11:40
Sample ID: R08070444-006AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	1500	mg/L	5.0	83	80	120			Run: BAL-4-R_080731A 07/31/08 11:55
Sample ID: R08070444-006AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	1500	mg/L	5.0	99	80	120	2.1	10	Run: BAL-4-R_080731A 07/31/08 11:56
Method: A2580 B							Batch: 080804-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample								
Oxidation-Reduction Potential	470	mV		99	95	105			Run: PH_COND1-R_080804A 08/04/08 00:00
Sample ID: R08070471-001F	Sample Duplicate								
Oxidation-Reduction Potential	290	mV					0.3	10	Run: PH_COND1-R_080804A 08/04/08 00:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-0808015A		
Sample ID: MBLK	Method Blank					Run: SUB-C105972			08/15/08 11:38
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-121-5	Laboratory Control Sample					Run: SUB-C105972			08/15/08 11:40
Selenium-IV	0.049	mg/L	0.0010	98	90	110			
Sample ID: C08071121-001AMS	Sample Matrix Spike					Run: SUB-C105972			08/15/08 11:46
Selenium-IV	0.055	mg/L	0.0010	109	85	115			
Sample ID: C08071121-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C105972			08/15/08 11:48
Selenium-IV	0.057	mg/L	0.0010	113	85	115	4	10	
Method: A3114 B							Batch: C_SE3114-0808015B		
Sample ID: MBLK	Method Blank					Run: SUB-C105991			08/15/08 15:10
Selenium	ND	mg/L	6E-05						
Sample ID: 288-121-5	Laboratory Control Sample					Run: SUB-C105991			08/15/08 15:20
Selenium	0.047	mg/L	0.0010	95	90	110			
Sample ID: C08071121-001AMS	Sample Matrix Spike					Run: SUB-C105991			08/15/08 15:24
Selenium	0.047	mg/L	0.0010	91	85	115			
Sample ID: C08071121-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C105991			08/15/08 15:26
Selenium	0.048	mg/L	0.0010	93	85	115	2.1	15	
Method: A4500-H B							Batch: 080804_1_PH-W		
Sample ID: LCS_pH-1_080804	Laboratory Control Sample					Run: PH_COND2-R_080804A			08/04/08 15:34
pH	6.88	s.u.	0.010	100	98.55	101.45			
Sample ID: R08080016-004BDUP	Sample Duplicate					Run: PH_COND2-R_080804A			08/04/08 15:43
pH	8.02	s.u.	0.010				0.1	1.25	
Method: A4500-NH3 G							Batch: A2008-07-30_2_NH3_01		
Sample ID: MBLK-2	Method Blank					Run: TECHAA2-R_080730A			07/30/08 11:56
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-4	Laboratory Fortified Blank					Run: TECHAA2-R_080730A			07/30/08 11:58
Nitrogen, Ammonia as N	0.25	mg/L	0.10	102	90	110			
Sample ID: R08070444-004BMS	Sample Matrix Spike					Run: TECHAA2-R_080730A			07/30/08 13:47
Nitrogen, Ammonia as N	0.13	mg/L	0.10	52	80	120			S
Sample ID: R08070444-004BMSD	Sample Matrix Spike Duplicate					Run: TECHAA2-R_080730A			07/30/08 13:48
Nitrogen, Ammonia as N	0.12	mg/L	0.10	48	80	120	9.6	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92									Batch: C_R105444
Sample ID: R08070471-001G Radon 222	Sample Duplicate 1230	pCi/L	100			Run: SUB-C105444	5.3	30	08/01/08 13:44
Sample ID: MB-R105444 Radon 222	Method Blank 40	pCi/L				Run: SUB-C105444			08/01/08 13:44
Sample ID: LCS-R105444 Radon 222	Laboratory Control Sample 324	pCi/L	100	94	70	130			08/01/08 13:44

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19343		
Sample ID: MB-19343	Method Blank			Run: SUB-C105373			08/05/08 19:34		
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	0.003	mg/L	0.001						
Sample ID: LCS3-19343	Laboratory Control Sample			Run: SUB-C105373			08/05/08 19:38		
Boron	0.501	mg/L	0.10	100	85	115			
Chromium	0.501	mg/L	0.050	100	85	115			
Copper	0.505	mg/L	0.010	101	85	115			
Iron	2.72	mg/L	0.030	109	85	115			
Manganese	2.51	mg/L	0.010	101	85	115			
Molybdenum	0.498	mg/L	0.10	100	85	115			
Nickel	0.496	mg/L	0.050	99	85	115			
Strontium	0.493	mg/L	0.10	99	85	115			
Zinc	0.501	mg/L	0.010	100	85	115			
Sample ID: C08071410-001BMS3	Sample Matrix Spike			Run: SUB-C105373			08/05/08 20:10		
Boron	0.514	mg/L	0.10	103	70	130			
Chromium	0.504	mg/L	0.050	101	70	130			
Copper	0.514	mg/L	0.010	103	70	130			
Iron	2.80	mg/L	0.030	109	70	130			
Manganese	2.71	mg/L	0.010	100	70	130			
Molybdenum	0.500	mg/L	0.10	100	70	130			
Nickel	0.492	mg/L	0.050	98	70	130			
Strontium	2.00	mg/L	0.10	82	70	130			
Zinc	0.531	mg/L	0.010	99	70	130			
Sample ID: C08071410-001BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C105373			08/05/08 20:14		
Boron	0.510	mg/L	0.10	102	70	130	0.9	20	
Chromium	0.515	mg/L	0.050	103	70	130	2.2	20	
Copper	0.527	mg/L	0.010	105	70	130	2.5	20	
Iron	2.84	mg/L	0.030	111	70	130	1.4	20	
Manganese	2.75	mg/L	0.010	102	70	130	1.8	20	
Molybdenum	0.509	mg/L	0.10	102	70	130	1.9	20	
Nickel	0.490	mg/L	0.050	98	70	130	0.3	20	
Strontium	2.15	mg/L	0.10	113	70	130	7.5	20	
Zinc	0.545	mg/L	0.010	102	70	130	2.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R105457		
Sample ID: MB-080806A	Method Blank		Run: SUB-C105457				08/06/08 13:48		
Silica	0.04	mg/L		0.02					
Aluminum	ND	mg/L		0.004					
Boron	0.02	mg/L		0.008					
Calcium	ND	mg/L		0.1					
Iron	ND	mg/L		0.005					
Magnesium	ND	mg/L		0.04					
Potassium	ND	mg/L		0.02					
Sodium	ND	mg/L		0.8					
Sample ID: LFB-080806A	Laboratory Fortified Blank		Run: SUB-C105457				08/06/08 15:10		
Silica	0.41	mg/L	0.10	103	85	125			
Aluminum	0.97	mg/L	0.10	97	85	125			
Boron	1.00	mg/L	0.10	100	85	125			
Calcium	54	mg/L	0.50	107	85	125			
Iron	1.0	mg/L	0.030	104	85	125			
Magnesium	53	mg/L	0.50	106	85	125			
Potassium	46	mg/L	0.50	92	85	125			
Sodium	49	mg/L	0.77	98	85	125			
Sample ID: C08061359-007EMS2	Sample Matrix Spike		Run: SUB-C105457				08/06/08 15:18		
Aluminum	1.97	mg/L	0.10	99	70	130			
Boron	2.17	mg/L	0.10	98	70	130			
Iron	2.14	mg/L	0.030	105	70	130			
Calcium	134	mg/L	1.0	106	70	130			
Magnesium	110	mg/L	1.0	105	70	130			
Potassium	100	mg/L	1.0	92	70	130			
Silica	6.57	mg/L	0.10		70	130			A
Sodium	246	mg/L	1.5	97	70	130			
Sample ID: C08061359-007EMSD2	Sample Matrix Spike Duplicate		Run: SUB-C105457				08/06/08 15:22		
Aluminum	2.04	mg/L	0.10	102	70	130	3.3	20	
Boron	2.27	mg/L	0.10	103	70	130	4.3	20	
Iron	2.23	mg/L	0.030	110	70	130	4.2	20	
Calcium	138	mg/L	1.0	110	70	130	3	20	
Magnesium	113	mg/L	1.0	109	70	130	3.1	20	
Potassium	99.5	mg/L	1.0	91	70	130	0.7	20	
Silica	6.83	mg/L	0.10		70	130	4	20	A
Sodium	250	mg/L	1.5	100	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19343		
Sample ID: MB-19343	Method Blank		Run: SUB-C105472				08/06/08 15:03		
Antimony	ND	mg/L	0.0002						
Arsenic	0.002	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	4E-05	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Thallium	ND	mg/L	3E-05						
Uranium	0.0002	mg/L	3E-05						
Sample ID: LCS3-19343	Laboratory Control Sample		Run: SUB-C105472				08/06/08 15:37		
Antimony	0.545	mg/L	0.050	109	85	115			
Arsenic	0.521	mg/L	0.0010	104	85	115			
Barium	0.525	mg/L	0.10	105	85	115			
Beryllium	0.230	mg/L	0.010	92	85	115			
Cadmium	0.260	mg/L	0.010	104	85	115			
Lead	0.516	mg/L	0.050	103	85	115			
Selenium	0.523	mg/L	0.0020	105	85	115			
Silver	0.0479	mg/L	0.010	96	85	115			
Thallium	0.511	mg/L	0.10	102	85	115			
Uranium	0.547	mg/L	0.00032	109	85	115			
Sample ID: C08071410-001BMS3	Sample Matrix Spike		Run: SUB-C105472				08/06/08 15:57		
Antimony	0.559	mg/L	0.050	112	70	130			
Arsenic	0.546	mg/L	0.0010	109	70	130			
Barium	0.553	mg/L	0.10	107	70	130			
Cadmium	0.255	mg/L	0.010	102	70	130			
Lead	0.534	mg/L	0.050	107	70	130			
Selenium	0.535	mg/L	0.0010	107	70	130			
Silver	0.0473	mg/L	0.010	95	70	130			
Thallium	0.550	mg/L	0.10	110	70	130			
Uranium	0.627	mg/L	0.00030	125	70	130			
Sample ID: C08071410-001BMSD3	Sample Matrix Spike Duplicate		Run: SUB-C105472				08/06/08 16:04		
Antimony	0.564	mg/L	0.050	113	70	130	0.9	20	
Arsenic	0.542	mg/L	0.0010	108	70	130	0.8	20	
Barium	0.555	mg/L	0.10	107	70	130	0.2	20	
Cadmium	0.254	mg/L	0.010	101	70	130	0.4	20	
Lead	0.526	mg/L	0.050	105	70	130	1.5	20	
Selenium	0.527	mg/L	0.0010	105	70	130	1.7	20	
Silver	0.0475	mg/L	0.010	95	70	130	0.4	20	
Thallium	0.545	mg/L	0.10	109	70	130	0.8	20	
Uranium	0.628	mg/L	0.00030	125	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19343
Sample ID: C08071410-001BMSD3	Sample Matrix Spike Duplicate					Run: SUB-C105472			08/06/08 16:04

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105384		
Sample ID: LRB	Method Blank		Run: SUB-C105384				08/05/08 13:12		
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C105384				08/05/08 13:18		
Arsenic	0.0564	mg/L	0.0010	113	85	115			
Barium	0.0559	mg/L	0.0010	112	85	115			
Cadmium	0.0557	mg/L	0.0010	111	85	115			
Chromium	0.0537	mg/L	0.0010	107	85	115			
Copper	0.0576	mg/L	0.0010	115	85	115			
Lead	0.0563	mg/L	0.0010	113	85	115			
Manganese	0.0536	mg/L	0.0010	107	85	115			
Mercury	0.00558	mg/L	0.0010	112	85	115			
Molybdenum	0.0564	mg/L	0.0010	113	85	115			
Nickel	0.0574	mg/L	0.0010	115	85	115			
Thorium 232	0.0538	mg/L	0.0010	108	85	115			
Uranium	0.0543	mg/L	0.00030	109	85	115			
Vanadium	0.0531	mg/L	0.0010	106	85	115			
Zinc	0.0579	mg/L	0.0010	116	85	115			
Sample ID: R08070471-001C	Post Digestion Spike		Run: SUB-C105384				08/05/08 20:35		
Arsenic	0.0551	mg/L	0.0010	107	70	130			
Barium	0.0670	mg/L	0.10	107	70	130			
Cadmium	0.0493	mg/L	0.010	99	70	130			
Chromium	0.0480	mg/L	0.050	96	70	130			
Copper	0.0492	mg/L	0.010	97	70	130			
Lead	0.0545	mg/L	0.050	109	70	130			
Manganese	0.0869	mg/L	0.010	103	70	130			
Mercury	0.00539	mg/L	0.0010	108	70	130			
Molybdenum	0.0529	mg/L	0.10	104	70	130			
Nickel	0.0491	mg/L	0.050	98	70	130			
Thorium 232	0.0553	mg/L	0.0010	111	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R105384		
Sample ID: R08070471-001C	Post Digestion Spike				Run: SUB-C105384				08/05/08 20:35
Uranium	0.0557	mg/L	0.00030	111	70	130			
Vanadium	0.0495	mg/L	0.10	98	70	130			
Zinc	0.0506	mg/L	0.010	99	70	130			
Sample ID: R08070471-001C	Post Digestion Spike Duplicate				Run: SUB-C105384				08/05/08 20:42
Arsenic	0.0557	mg/L	0.0010	108	70	130	0.9	20	
Barium	0.0677	mg/L	0.10	108	70	130	0	20	
Cadmium	0.0505	mg/L	0.010	101	70	130	2.6	20	
Chromium	0.0499	mg/L	0.050	100	70	130	0	20	
Copper	0.0504	mg/L	0.010	99	70	130	2.4	20	
Lead	0.0540	mg/L	0.050	108	70	130	0.9	20	
Manganese	0.0881	mg/L	0.010	106	70	130	1.4	20	
Mercury	0.00536	mg/L	0.0010	107	70	130	0.5	20	
Molybdenum	0.0547	mg/L	0.10	108	70	130	0	20	
Nickel	0.0504	mg/L	0.050	101	70	130	2.7	20	
Thorium 232	0.0557	mg/L	0.0010	111	70	130	0.6	20	
Uranium	0.0556	mg/L	0.00030	111	70	130	0.1	20	
Vanadium	0.0510	mg/L	0.10	102	70	130	0	20	
Zinc	0.0507	mg/L	0.010	99	70	130	0.1	20	
Method: E200.8							Batch: C_R105674		
Sample ID: LRB	Method Blank				Run: SUB-C105674				08/11/08 12:08
Silver	5E-05	mg/L	7E-06						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C105674				08/11/08 12:15
Silver	0.0197	mg/L	0.0010	98	85	115			
Sample ID: C08080052-001FMS4	Post Digestion Spike				Run: SUB-C105674				08/11/08 19:51
Silver	0.00469	mg/L	0.010	23	70	130			S
Sample ID: C08080052-001FMSD4	Post Digestion Spike Duplicate				Run: SUB-C105674				08/11/08 20:24
Silver	0.00310	mg/L	0.010	16	70	130	0	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_33886		
Sample ID: MB-33886	Method Blank					Run: SUB-B115272			08/05/08 12:37
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33886	Laboratory Fortified Blank					Run: SUB-B115272			08/05/08 12:39
Mercury	0.0021	mg/L	0.0010	107	85	115			
Sample ID: B08072977-006CMS	Sample Matrix Spike					Run: SUB-B115272			08/05/08 13:11
Mercury	0.00230	mg/L	0.0010	115	70	130			
Sample ID: B08072977-006CMSD	Sample Matrix Spike Duplicate					Run: SUB-B115272			08/05/08 13:13
Mercury	0.00223	mg/L	0.0010	112	70	130	3.1	30	
Method: E245.1							Analytical Run: SUB-B115272		
Sample ID: QCS	Initial Calibration Verification Standard								08/05/08 12:29
Mercury	0.0018	mg/L	0.0010	92	90	110			
Method: E300.0							Batch: R36547		
Sample ID: LFB0807304819-1	Laboratory Fortified Blank					Run: DIONEX_080730A			07/30/08 11:36
Chloride	6.29	mg/L	0.50	126	90	110			S
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.42	mg/L	0.10	97	90	110			
Nitrogen, Nitrite as N	2.52	mg/L	0.10	101	90	110			
Sulfate	16.9	mg/L	1.0	113	90	110			S
Sample ID: LFB0807304819-4	Laboratory Fortified Blank					Run: DIONEX_080730A			07/30/08 12:25
Chloride	4.91	mg/L	0.50	98	90	110			
Fluoride	2.04	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.42	mg/L	0.10	97	90	110			
Nitrogen, Nitrite as N	2.54	mg/L	0.10	102	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: R08070444-009AMS	Sample Matrix Spike					Run: DIONEX_080730A			07/30/08 19:32
Chloride	83.7	mg/L	1.1	92	80	120			
Fluoride	20.5	mg/L	0.11	98	80	120			
Nitrogen, Nitrate as N	25.2	mg/L	0.25	93	80	120			
Nitrogen, Nitrite as N	25.5	mg/L	0.58	102	80	120			
Sulfate	382	mg/L	1.0	84	80	120			
Sample ID: R08070444-009AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_080730A			07/30/08 19:48
Chloride	85.0	mg/L	1.1	94	80	120	1.5	10	
Fluoride	20.4	mg/L	0.11	98	80	120	0.3	10	
Nitrogen, Nitrate as N	25.1	mg/L	0.25	92	80	120	0.5	10	
Nitrogen, Nitrite as N	25.4	mg/L	0.58	102	80	120	0.5	10	
Sulfate	392	mg/L	1.0	90	80	120	2.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0511		
Sample ID: MB-GrAB-0511	Method Blank					Run: SUB-C107112		09/05/08 11:49	
Gross Alpha	-0.2	pCi/L							U
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0511	Laboratory Control Sample					Run: SUB-C107112		09/05/08 11:50	
Gross Alpha	130	pCi/L		92	70	130			
Sample ID: C08080307-002FMS	Sample Matrix Spike					Run: SUB-C107112		09/05/08 11:49	
Gross Alpha	165	pCi/L		117	70	130			
Sample ID: C08080307-002FMSD	Sample Matrix Spike Duplicate					Run: SUB-C107112		09/05/08 11:50	
Gross Alpha	147	pCi/L		104	70	130	11	16.5	
Sample ID: Cs137-GrAB-0511	Laboratory Control Sample					Run: SUB-C107112		09/05/08 11:49	
Gross Beta	82	pCi/L		90	70	130			
Sample ID: C08080307-002FMS	Sample Matrix Spike					Run: SUB-C107112		09/05/08 11:50	
Gross Beta	87.6	pCi/L		92	70	130			
Sample ID: C08080307-002FMSD	Sample Matrix Spike Duplicate					Run: SUB-C107112		09/05/08 11:50	
Gross Beta	86.6	pCi/L		91	70	130	1.2	16	
Method: E901.1							Batch: C_R105938		
Sample ID: LCS-R105938	Laboratory Control Sample					Run: SUB-C105938		08/08/08 07:23	
Cesium 137	39300	pCi/L	20	102	70	130			
Cobalt 60	38200	pCi/L	20	95	70	130			
Sample ID: MB-R105938	Method Blank					Run: SUB-C105938		08/08/08 07:23	
Gross Gamma	ND	pCi/L							
Sample ID: R08070471-001H	Sample Duplicate					Run: SUB-C105938		08/08/08 07:23	
Gross Gamma	1100	pCi/L	20				11	30	
Method: E903.0							Batch: C_19385		
Sample ID: C08071321-001FMS	Sample Matrix Spike					Run: SUB-C106299		08/18/08 16:03	
Radium 226	47	pCi/L		120	70	130			
Sample ID: C08071321-001FMSD	Sample Matrix Spike Duplicate					Run: SUB-C106299		08/18/08 17:41	
Radium 226	40	pCi/L		103	70	130	16	25.8	
Sample ID: MB-19385	Method Blank					Run: SUB-C106299		08/18/08 17:41	
Radium 226	-2	pCi/L							U
Sample ID: LCS-19385	Laboratory Control Sample					Run: SUB-C106299		08/18/08 17:41	
Radium 226	96	pCi/L		124	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 10/03/08
 Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-3016		
Sample ID: MB-RA226-3016	Method Blank					Run: SUB-C106616			08/27/08 17:58
Radium 226	-0.2	pCi/L							U
Sample ID: LCS-RA226-3016	Laboratory Control Sample					Run: SUB-C106616			08/27/08 17:58
Radium 226	8.5	pCi/L		110	70	130			
Sample ID: C08071259-001DMS	Sample Matrix Spike					Run: SUB-C106616			08/15/08 14:15
Radium 226	19	pCi/L		114	70	130			
Sample ID: C08071259-001DMSD	Sample Matrix Spike Duplicate					Run: SUB-C106616			08/15/08 14:15
Radium 226	18	pCi/L		109	70	130	4.8	30	
Method: E907.0							Batch: C_19385		
Sample ID: C08071095-003FMS	Sample Matrix Spike					Run: SUB-C106951			08/22/08 10:00
Thorium 230	24.9	pCi/L	0.20	100	70	130			
Sample ID: C08071095-003FMSD	Sample Matrix Spike Duplicate					Run: SUB-C106951			08/22/08 10:00
Thorium 230	23.1	pCi/L	0.20	94	70	130	7.5	30	
Sample ID: LCS-19385	Laboratory Control Sample					Run: SUB-C106951			08/22/08 10:00
Thorium 230	50.0	pCi/Filter	0.20	102	70	130			
Sample ID: MB-19385	Method Blank					Run: SUB-C106951			08/22/08 10:00
Thorium 230	0.4	pCi/L							U
Method: E907.0							Batch: C_R106719		
Sample ID: LCS-R106719	Laboratory Control Sample					Run: SUB-C106719			08/20/08 16:00
Thorium 230	6.10	pCi/L	0.20	102	70	130			
Sample ID: C08071230-006CMS	Sample Matrix Spike					Run: SUB-C106719			08/20/08 16:00
Thorium 230	17.4	pCi/L	0.20	107	70	130			
Sample ID: C08071230-006CMSD	Sample Matrix Spike Duplicate					Run: SUB-C106719			08/20/08 16:00
Thorium 230	12.7	pCi/L	0.20	79	70	130	31	30	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-R106719	Method Blank					Run: SUB-C106719			08/20/08 16:00
Thorium 230	ND	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_19385		
Sample ID: C08071095-005FMS	Sample Matrix Spike					Run: SUB-C106789			08/21/08 10:15
Lead 210	950	pCi/L	81		70	130			
Sample ID: C08071095-005FMSD	Sample Matrix Spike Duplicate					Run: SUB-C106789			08/21/08 10:15
Lead 210	1200	pCi/L	103		70	130	23	30	
Sample ID: MB-R106789	Method Blank					Run: SUB-C106789			08/21/08 10:15
Lead 210	-4	pCi/L							U
Sample ID: LCS-R106789	Laboratory Control Sample					Run: SUB-C106789			08/21/08 10:15
Lead 210	110	pCi/L	101		70	130			
Method: E909.0M							Batch: C_R107244		
Sample ID: C08080052-002AMS	Sample Matrix Spike					Run: SUB-C107244			08/28/08 09:57
Lead 210	580	pCi/L	100		70	130			
Sample ID: C08080052-002AMSD	Sample Matrix Spike Duplicate					Run: SUB-C107244			08/28/08 09:57
Lead 210	780	pCi/L	134		70	130	29	30	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable the batch is approved.									
Sample ID: C08080052-003ADUP	Sample Duplicate					Run: SUB-C107244			08/28/08 09:57
Lead 210	-6.0	pCi/L					180	30	UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R107244	Method Blank					Run: SUB-C107244			08/28/08 09:57
Lead 210	-8	pCi/L							U
Sample ID: LCS-R107244	Laboratory Control Sample					Run: SUB-C107244			08/28/08 09:57
Lead 210	110	pCi/L	104		70	130			
Method: RMO-3008							Batch: C_R106673		
Sample ID: C08071095-001EMS	Sample Matrix Spike					Run: SUB-C106673			08/21/08 17:30
Polonium 210	53	pCi/L	1.0	93	70	130			
Sample ID: C08071095-001EMSD	Sample Matrix Spike Duplicate					Run: SUB-C106673			08/21/08 17:30
Polonium 210	47	pCi/L	1.0	83	70	130	12	30	
Sample ID: LCS-R106673	Laboratory Control Sample					Run: SUB-C106673			08/21/08 17:30
Polonium 210	43	pCi/L	1.0	77	70	130			
Sample ID: MB-R106673	Method Blank					Run: SUB-C106673			08/21/08 17:30
Polonium 210	0.4	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/03/08
Work Order: R08070471

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R107327		
Sample ID: C08080030-003FMS	Sample Matrix Spike					Run: SUB-C107327			09/03/08 17:30
Polonium 210	21	pCi/L	1.0	92	70	130			
Sample ID: C08080030-003FMSD	Sample Matrix Spike Duplicate					Run: SUB-C107327			09/03/08 17:30
Polonium 210	24	pCi/L	1.0	108	70	130	14	30	
Sample ID: LCS-19385	Laboratory Control Sample					Run: SUB-C107327			09/03/08 17:30
Polonium 210	100	pCi/L	1.0	126	70	130			
Sample ID: MB-19385	Method Blank					Run: SUB-C107327			09/03/08 17:30
Polonium 210	-0.4	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: RESER		Project Name, PWS, Permit, Etc. Buerfeld DS		Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Cory Foreman		Phone/Fax:	Sampler: (Please Print) Eric Kante
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats – EII must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) Dew Bund SWISS 7/28/08 15:45		Collection Date	Collection Time	MATRIX W	
ANALYSIS REQUESTED <div style="text-align: center; font-size: 2em; font-weight: bold;">R U S H</div>		SEE ATTACHED Normal Turnaround (TAT)		Contact EII prior to RUSH sample submittal for changes and scheduling – See Instruction Page Comments:	
Shipped by: Cooler Date: Receipt Temp: 2.2 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal Intact: Y N Signature: Y N Match: Y N		LABORATORY USE ONLY 85670471-001			
1 2 3 4 5 6 7 8 9 10		Date/Time: _____ Signature: _____ Date/Time: _____ Signature: _____			
Custody Record MUST be Signed		Relinquished by (print): Eric Kante		Date/Time: 7/29/08 0845	
Sample Disposal: _____ Return to Client: _____		Lab Disposal: _____		Received by Laboratory: _____ Date/Time: _____	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

November 14, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08080301 Quote ID: R286

Project Name: Edgemont

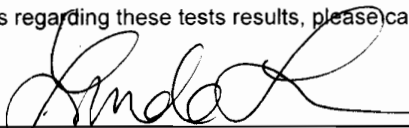
Energy Laboratories Inc. received the following 5 samples for RESPEC Inc on 8/20/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08080301-001	DewBurd GW3026	08/19/08 16:25	08/20/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08080301-002	DewBurd GW3026	08/19/08 16:35	08/20/08	Aqueous	Same As Above
R08080301-003	DewBurd GW698	08/19/08 17:35	08/20/08	Aqueous	Same As Above
R08080301-004	DewBurd GW681	08/19/08 19:08	08/20/08	Aqueous	Same As Above
R08080301-005	DewBurd GW689	08/19/08 19:18	08/20/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____


 Linda Larson
 Rapid City - Project Manager



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08080301

Date: 14-Nov-08

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08081029

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08081029



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-001
 Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
 Collection Date: 08/19/08 16:25
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	208	mg/L		5		1	A2320 B 08/21/08 11:43/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 08/21/08 11:43/mb
Bicarbonate as HCO3	254	mg/L		5		1	A2320 B 08/21/08 11:43/mb
Calcium	499	mg/L		0.5		2	E200.7 09/02/08 17:29/eli-c
Chloride	15	mg/L		1		1	E300.0 08/21/08 23:06/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 08/21/08 23:06/jmh
Magnesium	152	mg/L		0.5		2	E200.7 09/02/08 17:29/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G 08/21/08 17:48/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 08/21/08 23:06/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 08/21/08 23:06/jmh
Potassium	21.9	mg/L		0.5		2	E200.7 09/02/08 17:29/eli-c
Silica	2.2	mg/L		0.5		2	E200.7 09/02/08 17:29/eli-c
Sodium	172	mg/L	D	2		2	E200.7 09/02/08 17:29/eli-c
Sulfate	1870	mg/L	D	3		50	E300.0 08/21/08 22:49/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	3480	umhos/cm		5.0		1	A2510 B 08/22/08 11:48/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B 08/25/08 00:00/jmh
pH	7.07	s.u.		0.01		1	A4500-H B 08/22/08 13:53/tb
Sodium Adsorption Ratio (SAR)	1.7	unitless		0.10		1	Calculation 11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	2800	mg/L		5		1	A2540 C 08/25/08 15:53/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 09/02/08 17:29/eli-c
Arsenic	0.017	mg/L		0.001		1	E200.8 09/03/08 03:19/eli-c
Barium	ND	mg/L		0.1		2	E200.7 09/02/08 17:29/eli-c
Boron	0.2	mg/L		0.1		2	E200.7 09/02/08 17:29/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 09/03/08 03:19/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 09/02/08 17:29/eli-c
Copper	ND	mg/L		0.01		1	E200.8 09/03/08 03:19/eli-c
Iron	25.4	mg/L		0.03		2	E200.7 09/02/08 17:29/eli-c
Lead	ND	mg/L		0.001		1	E200.8 09/03/08 03:19/eli-c
Manganese	1.60	mg/L		0.01		1	E200.8 09/03/08 03:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 09/03/08 03:19/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 09/02/08 17:29/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 09/02/08 17:29/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 09/01/08 11:37/eli-c
Silver	ND	mg/L		0.005		1	E200.8 09/03/08 03:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 09/03/08 03:19/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-001
 Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
 Collection Date: 08/19/08 16:25
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0106	mg/L		0.0003		1	E200.8	09/03/08 03:19/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/03/08 03:19/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	09/02/08 17:29/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 01:11/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:02/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	77.5	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Alpha precision (±)	11.6	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Alpha MDC	10.4	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta	30.2	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta precision (±)	7.3	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta MDC	11.4	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Lead 210	2.1	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	9.5	pCi/L				1	E903.0	09/15/08 16:28/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	09/15/08 16:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/20/08 12:26/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	09/20/08 12:26/eli-c
Gross Gamma	840	pCi/L		20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-5	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-001
 Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
 Collection Date: 08/19/08 16:25
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	836	pCi/L		100		1 D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	109	pCi/L				1 D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	09/03/08 03:25/eli-c
Arsenic	0.022	mg/L		0.001		1 E200.8	09/03/08 03:25/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/02/08 19:55/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	09/03/08 21:47/eli-c
Boron	0.1	mg/L		0.1		2 E200.7	09/02/08 19:55/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	09/03/08 03:25/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/02/08 19:55/eli-c
Copper	ND	mg/L		0.01		2 E200.7	09/02/08 19:55/eli-c
Iron	25.8	mg/L		0.03		2 E200.7	09/02/08 19:55/eli-c
Lead	ND	mg/L		0.001		1 E200.8	09/03/08 03:25/eli-c
Manganese	1.64	mg/L		0.01		1 E200.8	09/03/08 03:25/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	08/28/08 08:08/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	09/02/08 19:55/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/02/08 19:55/eli-c
Selenium	0.001	mg/L		0.001		1 E200.8	09/03/08 03:25/eli-c
Silver	ND	mg/L		0.005		1 E200.8	09/03/08 03:25/eli-c
Strontium	7.2	mg/L		0.1		2 E200.7	09/02/08 19:55/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	09/03/08 03:25/eli-c
Uranium	0.0105	mg/L		0.0003		1 E200.8	09/03/08 03:25/eli-c
Zinc	0.02	mg/L		0.01		2 E200.7	09/02/08 19:55/eli-c
DATA QUALITY							
A/C Balance (± 5)	3.22	%				1 A1030 E	11/04/08 00:00/jmh
Anions	43.6	meq/L				1 A1030 E	11/04/08 00:00/jmh
Cations	46.5	meq/L				1 A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	2860	mg/L				1 A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1 A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-002
 Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
 Collection Date: 08/19/08 16:35
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	206	mg/L		5	1	A2320 B	08/21/08 11:46/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	08/21/08 11:46/mb
Bicarbonate as HCO3	251	mg/L		5	1	A2320 B	08/21/08 11:46/mb
Calcium	481	mg/L		0.5	2	E200.7	09/02/08 17:45/eli-c
Chloride	15	mg/L		1	1	E300.0	08/22/08 00:12/jmh
Fluoride	0.4	mg/L		0.1	1	E300.0	08/22/08 00:12/jmh
Magnesium	147	mg/L		0.5	2	E200.7	09/02/08 17:45/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1	1	A4500-NH3 G	08/21/08 17:50/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	08/22/08 00:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	08/22/08 00:12/jmh
Potassium	21.9	mg/L		0.5	2	E200.7	09/02/08 17:45/eli-c
Silica	2.2	mg/L		0.5	2	E200.7	09/02/08 17:45/eli-c
Sodium	172	mg/L	D	2	2	E200.7	09/02/08 17:45/eli-c
Sulfate	1670	mg/L	D	3	50	E300.0	08/21/08 23:22/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	3310	umhos/cm		5.0	1	A2510 B	08/22/08 11:49/tb
Oxidation-Reduction Potential	160	mV			1	A2580 B	08/25/08 00:00/jmh
pH	7.08	s.u.		0.01	1	A4500-H B	08/22/08 13:56/tb
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.10	1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	2800	mg/L		5	1	A2540 C	08/25/08 15:53/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	2	E200.7	09/02/08 17:45/eli-c
Arsenic	0.014	mg/L		0.001	1	E200.8	09/03/08 03:59/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 17:45/eli-c
Boron	0.2	mg/L		0.1	2	E200.7	09/02/08 17:45/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	09/03/08 03:59/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 17:45/eli-c
Copper	ND	mg/L		0.01	1	E200.8	09/03/08 03:59/eli-c
Iron	22.7	mg/L		0.03	2	E200.7	09/02/08 17:45/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/03/08 03:59/eli-c
Manganese	1.59	mg/L		0.01	1	E200.8	09/03/08 03:59/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	09/03/08 03:59/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 17:45/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 17:45/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	09/01/08 11:35/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/03/08 03:59/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	09/03/08 03:59/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08080301-002
Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
Collection Date: 08/19/08 16:35
Date Received: 08/20/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0111	mg/L		0.0003		1	E200.8	09/03/08 03:59/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/03/08 03:59/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	09/02/08 17:45/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 01:15/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:04/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	79.0	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Alpha precision (±)	11.6	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Alpha MDC	10.2	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta	30.1	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta precision (±)	7.3	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta MDC	11.4	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Lead 210	1.9	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	8.7	pCi/L				1	E903.0	09/15/08 16:28/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	09/15/08 16:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/20/08 12:26/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	09/20/08 12:26/eli-c
Gross Gamma	900	pCi/L		20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-9	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-002
 Client Sample ID: DewBurd GW3026

Report Date: 11/14/08
 Collection Date: 08/19/08 16:35
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	800	pCi/L		100		1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	108	pCi/L				1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	09/03/08 04:06/eli-c
Arsenic	0.021	mg/L		0.001		1	E200.8	09/03/08 04:06/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 19:59/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	09/03/08 21:54/eli-c
Boron	0.2	mg/L		0.1		1	E200.8	09/03/08 21:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/03/08 04:06/eli-c
Chromium	0.42	mg/L		0.05		2	E200.7	09/02/08 19:59/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/02/08 19:59/eli-c
Iron	29.1	mg/L		0.03		2	E200.7	09/02/08 19:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/03/08 04:06/eli-c
Manganese	1.58	mg/L		0.01		2	E200.7	09/02/08 19:59/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/28/08 08:18/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 19:59/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 19:59/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	09/03/08 04:06/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/03/08 04:06/eli-c
Strontium	7.1	mg/L		0.1		2	E200.7	09/02/08 19:59/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	09/03/08 04:06/eli-c
Uranium	0.0112	mg/L		0.0003		1	E200.8	09/03/08 04:06/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	09/02/08 19:59/eli-c
DATA QUALITY								
A/C Balance (± 5)	6.76	%				1	A1030 E	11/04/08 00:00/jmh
Anions	39.4	meq/L				1	A1030 E	11/04/08 00:00/jmh
Cations	45.1	meq/L				1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	2640	mg/L				1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06					1	A1030 E	11/04/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-003
 Client Sample ID: DewBurd GW698

Report Date: 11/14/08
 Collection Date: 08/19/08 17:35
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	122	mg/L		5		1	A2320 B	08/21/08 11:48/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/21/08 11:48/mb
Bicarbonate as HCO3	149	mg/L		5		1	A2320 B	08/21/08 11:48/mb
Calcium	385	mg/L		0.5		2	E200.7	09/02/08 17:57/eli-c
Chloride	10	mg/L		1		1	E300.0	08/22/08 01:17/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	08/22/08 01:17/jmh
Magnesium	139	mg/L		0.5		2	E200.7	09/02/08 17:57/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	08/21/08 17:51/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/22/08 01:17/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/22/08 01:17/jmh
Potassium	16.0	mg/L		0.5		2	E200.7	09/02/08 17:57/eli-c
Silica	5.0	mg/L		0.5		2	E200.7	09/02/08 17:57/eli-c
Sodium	89	mg/L	D	2		2	E200.7	09/02/08 17:57/eli-c
Sulfate	1290	mg/L	D	3		50	E300.0	08/22/08 00:28/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2840	umhos/cm		5.0		1	A2510 B	08/22/08 11:50/tb
Oxidation-Reduction Potential	44	mV				1	A2580 B	08/25/08 00:00/jmh
pH	7.27	s.u.		0.01		1	A4500-H B	08/22/08 13:58/tb
Sodium Adsorption Ratio (SAR)	0.99	unitless		0.10		1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	08/25/08 15:54/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/02/08 17:57/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	09/03/08 04:13/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 17:57/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/02/08 17:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/03/08 04:13/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/02/08 17:57/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/03/08 04:13/eli-c
Iron	4.36	mg/L		0.03		2	E200.7	09/02/08 17:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/03/08 04:13/eli-c
Manganese	2.55	mg/L		0.01		2	E200.7	09/02/08 17:57/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/03/08 04:13/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 17:57/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 17:57/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	09/01/08 11:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/03/08 04:13/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/03/08 04:13/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-003
 Client Sample ID: DewBurd GW698

Report Date: 11/14/08
 Collection Date: 08/19/08 17:35
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.113	mg/L		0.0003		1	E200.8	09/03/08 04:13/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/03/08 04:13/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	09/02/08 17:57/eli-c
METALS - SUSPENDED								
Uranium	0.0023	mg/L		0.0003		1	E200.8	09/11/08 01:20/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:06/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1560	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Alpha precision (±)	39.4	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Alpha MDC	8.0	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta	488	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta precision (±)	11.6	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Gross Beta MDC	9.4	pCi/L				1	E900.0	09/25/08 14:09/eli-c
Lead 210	3.1	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	372	pCi/L				1	E903.0	09/15/08 16:28/eli-c
Radium 226 precision (±)	4.1	pCi/L				1	E903.0	09/15/08 16:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/20/08 12:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/20/08 12:26/eli-c
Gross Gamma	1300	pCi/L		20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	200	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.1	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.6	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.48	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	1.7	pCi/L				1	E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-003
 Client Sample ID: DewBurd GW698

Report Date: 11/14/08
 Collection Date: 08/19/08 17:35
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.5	pCi/L		0.2		1	E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	38200	pCi/L		100		1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	342	pCi/L				1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	09/04/08 00:10/eli-c
Arsenic	ND	mg/L	D	0.004		1	E200.8	10/18/08 14:53/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/03/08 03:30/eli-c
Beryllium	ND	mg/L	D	0.003		10	E200.8	09/04/08 00:10/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/03/08 03:30/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	09/04/08 00:10/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/03/08 03:30/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/03/08 03:30/eli-c
Iron	4.78	mg/L		0.03		2	E200.7	09/03/08 03:30/eli-c
Lead	ND	mg/L		0.001		10	E200.8	09/04/08 00:10/eli-c
Manganese	2.54	mg/L		0.01		2	E200.7	09/03/08 03:30/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/28/08 08:20/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/03/08 03:30/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/03/08 03:30/eli-c
Selenium	ND	mg/L	D	0.003		10	E200.8	09/04/08 00:10/eli-c
Silver	ND	mg/L	D	0.02		10	E200.8	09/04/08 00:10/eli-c
Strontium	4.6	mg/L		0.1		2	E200.7	09/03/08 03:30/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	09/04/08 00:10/eli-c
Uranium	0.101	mg/L	D	0.0005		10	E200.8	09/04/08 00:10/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/03/08 03:30/eli-c
DATA QUALITY								
A/C Balance (± 5)	8.93	%				1	A1030 E	11/04/08 00:00/jmh
Anions	29.5	meq/L				1	A1030 E	11/04/08 00:00/jmh
Cations	35.3	meq/L				1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	2010	mg/L				1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.13					1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08080301-004
Client Sample ID: DewBurd GW681

Report Date: 11/14/08
Collection Date: 08/19/08 19:08
Date Received: 08/20/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
MAJOR IONS							
Alkalinity, Total as CaCO3	172	mg/L		5	1	A2320 B	08/21/08 11:51/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	08/21/08 11:51/mb
Bicarbonate as HCO3	210	mg/L		5	1	A2320 B	08/21/08 11:51/mb
Calcium	66.5	mg/L		0.5	2	E200.7	09/02/08 18:06/eli-c
Chloride	16	mg/L		1	1	E300.0	08/22/08 01:50/jmh
Fluoride	0.5	mg/L		0.1	1	E300.0	08/22/08 01:50/jmh
Magnesium	24.7	mg/L		0.5	2	E200.7	09/02/08 18:06/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1	1	A4500-NH3 G	08/21/08 17:54/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	08/22/08 01:50/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	08/22/08 01:50/jmh
Potassium	9.8	mg/L		0.5	2	E200.7	09/02/08 18:06/eli-c
Silica	3.9	mg/L		0.5	2	E200.7	09/02/08 18:06/eli-c
Sodium	222	mg/L	D	2	2	E200.7	09/02/08 18:06/eli-c
Sulfate	489	mg/L	D	3	50	E300.0	08/22/08 01:34/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1450	umhos/cm		5.0	1	A2510 B	08/22/08 11:52/tb
Oxidation-Reduction Potential	160	mV			1	A2580 B	08/25/08 00:00/jmh
pH	8.01	s.u.		0.01	1	A4500-H B	08/22/08 14:00/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10	1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5	1	A2540 C	08/25/08 15:54/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	2	E200.7	09/02/08 18:06/eli-c
Arsenic	0.002	mg/L		0.001	1	E200.8	09/03/08 04:20/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 18:06/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/02/08 18:06/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	09/03/08 04:20/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 18:06/eli-c
Copper	ND	mg/L		0.01	1	E200.8	09/03/08 04:20/eli-c
Iron	ND	mg/L		0.03	2	E200.7	09/02/08 18:06/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/03/08 04:20/eli-c
Manganese	0.09	mg/L		0.01	2	E200.7	09/02/08 18:06/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	09/03/08 04:20/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 18:06/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 18:06/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	09/01/08 11:41/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/03/08 04:20/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	09/03/08 04:20/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-004
 Client Sample ID: DewBurd GW681

Report Date: 11/14/08
 Collection Date: 08/19/08 19:08
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0100	mg/L		0.0003		1 E200.8	09/03/08 04:20/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	09/03/08 04:20/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	08/26/08 06:43/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/11/08 01:24/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/31/08 16:08/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1430	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha precision (±)	25.9	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha MDC	3.8	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta	423	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta precision (±)	7.2	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta MDC	4.7	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Lead 210	32.2	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.8	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Polonium 210	3.7	pCi/L		1.0		1 RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	1.9	pCi/L				1 RMO-3008	09/03/08 19:15/eli-c
Radium 226	362	pCi/L				1 E903.0	09/15/08 16:28/eli-c
Radium 226 precision (±)	4.2	pCi/L				1 E903.0	09/15/08 16:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	09/20/08 12:26/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1 E907.0	09/20/08 12:26/eli-c
Gross Gamma	2800	pCi/L		20		1 E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	310	pCi/L				1 E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1	pCi/L	U			1 E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.6	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1 RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1 RMO-3008	09/15/08 14:35/eli-c
Radium 226	0.8	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-004
 Client Sample ID: DewBurd GW681

Report Date: 11/14/08
 Collection Date: 08/19/08 19:08
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	318000	pCi/L		100		1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	944	pCi/L				1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	09/03/08 04:26/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	09/03/08 04:26/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 20:03/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	09/03/08 22:01/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/02/08 20:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/03/08 04:26/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/02/08 20:03/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/02/08 20:03/eli-c
Iron	0.06	mg/L		0.03		2	E200.7	09/02/08 20:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/03/08 04:26/eli-c
Manganese	0.09	mg/L		0.01		2	E200.7	09/02/08 20:03/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/28/08 08:23/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 20:03/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 20:03/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	09/03/08 04:26/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/03/08 04:26/eli-c
Strontium	1.2	mg/L		0.1		2	E200.7	09/02/08 20:03/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	09/03/08 04:26/eli-c
Uranium	0.0037	mg/L		0.0003		1	E200.8	09/03/08 04:26/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 20:03/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.01	%				1	A1030 E	11/04/08 00:00/jmh
Anions	14.1	meq/L				1	A1030 E	11/04/08 00:00/jmh
Cations	15.3	meq/L				1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	942	mg/L				1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-005
 Client Sample ID: DewBurd GW689

Report Date: 11/14/08
 Collection Date: 08/19/08 19:18
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	08/21/08 11:54/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/21/08 11:54/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	08/21/08 11:54/mb
Calcium	48.8	mg/L		0.5		2	E200.7	09/02/08 18:10/eli-c
Chloride	5	mg/L		1		1	E300.0	08/22/08 02:23/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	08/22/08 02:23/jmh
Magnesium	16.2	mg/L		0.5		2	E200.7	09/02/08 18:10/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	08/21/08 17:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/22/08 02:23/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/22/08 02:23/jmh
Potassium	7.9	mg/L		0.5		2	E200.7	09/02/08 18:10/eli-c
Silica	4.3	mg/L		0.5		2	E200.7	09/02/08 18:10/eli-c
Sodium	185	mg/L	D	2		2	E200.7	09/02/08 18:10/eli-c
Sulfate	399	mg/L	D	3		50	E300.0	08/22/08 02:06/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1270	umhos/cm		5.0		1	A2510 B	08/22/08 11:53/tb
Oxidation-Reduction Potential	170	mV				1	A2580 B	08/25/08 00:00/jmh
pH	7.96	s.u.		0.01		1	A4500-H B	08/22/08 14:00/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	710	mg/L		5		1	A2540 C	08/25/08 15:55/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/02/08 18:10/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	09/03/08 04:33/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 18:10/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/02/08 18:10/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	09/02/08 18:10/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/02/08 18:10/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/03/08 04:33/eli-c
Iron	ND	mg/L		0.03		2	E200.7	09/02/08 18:10/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/03/08 04:33/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	09/02/08 18:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/03/08 04:33/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 18:10/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 18:10/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	09/01/08 11:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/03/08 04:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/03/08 04:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-005
 Client Sample ID: DewBurd GW689

Report Date: 11/14/08
 Collection Date: 08/19/08 19:18
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0034	mg/L		0.0003		1 E200.8	09/03/08 04:33/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	09/03/08 04:33/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/02/08 18:10/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/11/08 01:28/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/31/08 16:10/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	36.4	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Alpha MDC	3.0	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta	13.3	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta precision (±)	2.1	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Gross Beta MDC	3.2	pCi/L				1 E900.0	09/25/08 14:09/eli-c
Lead 210	2.1	pCi/L	U			1 E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1 RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1 RMO-3008	09/03/08 19:15/eli-c
Radium 226	4.4	pCi/L				1 E903.0	09/15/08 18:05/eli-c
Radium 226 precision (±)	0.5	pCi/L				1 E903.0	09/15/08 18:05/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	09/20/08 12:26/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1 E907.0	09/20/08 12:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-9	pCi/L	U			1 E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.4	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1 RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1 RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.6	pCi/L				1 E903.0	09/17/08 17:18/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080301-005
 Client Sample ID: DewBurd GW689

Report Date: 11/14/08
 Collection Date: 08/19/08 19:18
 Date Received: 08/20/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	2520	pCi/L		100		1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	127	pCi/L				1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	09/04/08 00:17/eli-c
Arsenic	ND	mg/L	D	0.004		1	E200.8	10/18/08 15:20/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/03/08 03:34/eli-c
Beryllium	ND	mg/L	D	0.003		10	E200.8	09/04/08 00:17/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/03/08 03:34/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	09/04/08 00:17/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/03/08 03:34/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/03/08 03:34/eli-c
Iron	0.73	mg/L		0.03		2	E200.7	09/03/08 03:34/eli-c
Lead	0.002	mg/L		0.001		10	E200.8	09/04/08 00:17/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	09/03/08 03:34/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/28/08 08:25/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/03/08 03:34/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/03/08 03:34/eli-c
Selenium	ND	mg/L	D	0.003		10	E200.8	09/04/08 00:17/eli-c
Silver	ND	mg/L	D	0.02		10	E200.8	09/04/08 00:17/eli-c
Strontium	0.9	mg/L		0.1		2	E200.7	09/03/08 03:34/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	09/04/08 00:17/eli-c
Uranium	0.0034	mg/L	D	0.0005		10	E200.8	09/04/08 00:17/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/03/08 03:34/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.54	%				1	A1030 E	11/04/08 00:00/jmh
Anions	11.4	meq/L				1	A1030 E	11/04/08 00:00/jmh
Cations	12.0	meq/L				1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	764	mg/L				1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930					1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc

Project: Edgemont

Report Date: 11/14/08

Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080820A-ALK-SEL-W		
Sample ID: LCS1_080820A	Laboratory Control Sample					Run: PH_COND1-R_080821A			08/20/08 11:41
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: MBLK1_080820A	Method Blank					Run: PH_COND1-R_080821A			08/20/08 11:52
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08080296-001AMS	Sample Matrix Spike					Run: PH_COND1-R_080821A			08/21/08 11:27
Alkalinity, Total as CaCO3	274	mg/L	5.0	108	80	120			
Sample ID: R08080296-001AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_080821A			08/21/08 11:31
Alkalinity, Total as CaCO3	264	mg/L	5.0	98	80	120	3.7	10	
Method: A2510 B							Batch: 080822_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080822	Laboratory Control Sample					Run: BAL-7-R_080822A			08/22/08 11:38
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_080822	Laboratory Control Sample					Run: BAL-7-R_080822A			08/22/08 11:40
Conductivity @ 25 C	162	umhos/cm	5.0	108	90	110			
Sample ID: LCS2-1_080822	Laboratory Control Sample					Run: BAL-7-R_080822A			08/22/08 11:41
Conductivity @ 25 C	5010	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_080822	Method Blank					Run: BAL-7-R_080822A			08/22/08 11:42
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C							Batch: 080825A-SLDS-TDS-W		
Sample ID: LCS1_080825A	Laboratory Control Sample					Run: BAL-4-R_080825B			08/25/08 15:44
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	103	90	110			
Sample ID: MBLK1_080825A	Method Blank					Run: BAL-4-R_080825B			08/25/08 15:46
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08080295-010AMS	Sample Matrix Spike					Run: BAL-4-R_080825B			08/25/08 15:52
Solids, Total Dissolved TDS @ 180 C	420	mg/L	5.0	106	80	120			
Sample ID: R08080295-010AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080825B			08/25/08 15:52
Solids, Total Dissolved TDS @ 180 C	410	mg/L	5.0	104	80	120	1	10	
Sample ID: R08080322-004AMS	Sample Matrix Spike					Run: BAL-4-R_080825B			08/25/08 15:57
Solids, Total Dissolved TDS @ 180 C	590	mg/L	5.0	83	80	120			
Sample ID: R08080322-004AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_080825B			08/25/08 15:58
Solids, Total Dissolved TDS @ 180 C	590	mg/L	5.0	82	80	120	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080825-ORP-ISE-WV		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_080825A		08/25/08 00:00		
Oxidation-Reduction Potential	470	mV		98	95	105			
Sample ID: R08080301-005F	Sample Duplicate				Run: PH_COND1-R_080825A		08/25/08 00:00		
Oxidation-Reduction Potential	170	mV					3.4	10	
Method: A3114 B							Batch: C_SE3114-080901A		
Sample ID: MBLK	Method Blank				Run: SUB-C106784		09/01/08 11:25		
Selenium	0.0008	mg/L	6E-05						
Sample ID: C08081048-003AMS	Sample Matrix Spike				Run: SUB-C106784		09/01/08 11:46		
Selenium	0.071	mg/L	0.0010	81	85	115			S
Sample ID: C08081048-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C106784		09/01/08 11:48		
Selenium	0.073	mg/L	0.0010	86	85	115	3.5	15	
Sample ID: 288-92-2	Laboratory Control Sample				Run: SUB-C106784		09/01/08 11:50		
Selenium	0.050	mg/L	0.0010	99	90	110			
Sample ID: R08080332-009E	Sample Matrix Spike				Run: SUB-C106784		09/01/08 12:17		
Selenium	0.042	mg/L	0.0010	84	85	115			S
Sample ID: R08080332-009E	Sample Matrix Spike Duplicate				Run: SUB-C106784		09/01/08 12:19		
Selenium	0.044	mg/L	0.0010	88	85	115	4.5	15	
Method: A3114 B							Batch: C_SEIV3114-080831A		
Sample ID: MBLK	Method Blank				Run: SUB-C106776		08/31/08 15:53		
Selenium-IV	0.0005	mg/L	6E-05						
Sample ID: C08081048-003AMS	Sample Matrix Spike				Run: SUB-C106776		08/31/08 16:12		
Selenium-IV	0.052	mg/L	0.0010	87	85	115			
Sample ID: C08081048-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C106776		08/31/08 16:20		
Selenium-IV	0.056	mg/L	0.0010	96	85	115	7.7	10	
Sample ID: 288-92-2	Laboratory Control Sample				Run: SUB-C106776		08/31/08 16:22		
Selenium-IV	0.050	mg/L	0.0010	100	90	110			
Sample ID: R08080332-009E	Sample Matrix Spike				Run: SUB-C106776		08/31/08 16:49		
Selenium-IV	0.045	mg/L	0.0010	89	85	115			
Sample ID: R08080332-009E	Sample Matrix Spike Duplicate				Run: SUB-C106776		08/31/08 16:52		
Selenium-IV	0.046	mg/L	0.0010	92	85	115	2.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080822_1_PH-W		
Sample ID: LCS_pH-1_080822	Laboratory Control Sample					Run: BAL-7-R_080822B			08/22/08 13:46
pH	6.87	s.u.	0.010	100	98.55	101.45			
Method: A4500-NH3 G							Batch: A2008-08-21_2_NH3_01		
Sample ID: MBLK-2	Method Blank					Run: TECHAA2-R_080821A			08/21/08 14:35
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank					Run: TECHAA2-R_080821A			08/21/08 14:36
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank					Run: TECHAA2-R_080821A			08/21/08 14:37
Nitrogen, Ammonia as N	0.25	mg/L	0.10	101	90	110			
Sample ID: R08080295-008CMS	Sample Matrix Spike					Run: TECHAA2-R_080821A			08/21/08 17:41
Nitrogen, Ammonia as N	0.22	mg/L	0.10	87	80	120			
Sample ID: R08080295-008CMSD	Sample Matrix Spike Duplicate					Run: TECHAA2-R_080821A			08/21/08 17:43
Nitrogen, Ammonia as N	0.20	mg/L	0.10	81	80	120	7.2	10	
Sample ID: R08080301-004BMS	Sample Matrix Spike					Run: TECHAA2-R_080821A			08/21/08 17:55
Nitrogen, Ammonia as N	0.29	mg/L	0.10	83	80	120			
Sample ID: R08080301-004BMSD	Sample Matrix Spike Duplicate					Run: TECHAA2-R_080821A			08/21/08 17:57
Nitrogen, Ammonia as N	0.31	mg/L	0.10	90	80	120	5.7	10	
Method: D5072-92							Batch: C_R106600		
Sample ID: R08080301-005G	Sample Duplicate					Run: SUB-C106600			08/25/08 17:46
Radon 222	2410	pCi/L	100				4.2	30	
Sample ID: MB-R106600	Method Blank					Run: SUB-C106600			08/25/08 17:46
Radon 222	40	pCi/L							U
Sample ID: LCS-R106600	Laboratory Control Sample					Run: SUB-C106600			08/25/08 17:46
Radon 222	300	pCi/L	100	85	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19595		
Sample ID: MB-19595	Method Blank		Run: SUB-C106856			09/03/08 02:17			
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	ND	mg/L	0.001						
Sample ID: LCS3-19595	Laboratory Control Sample		Run: SUB-C106856			09/03/08 02:21			
Barium	0.509	mg/L	0.10	102	85	115			
Boron	0.520	mg/L	0.10	104	85	115			
Chromium	0.520	mg/L	0.050	104	85	115			
Copper	0.518	mg/L	0.010	104	85	115			
Iron	2.75	mg/L	0.030	110	85	115			
Manganese	2.58	mg/L	0.010	103	85	115			
Molybdenum	0.508	mg/L	0.10	102	85	115			
Nickel	0.523	mg/L	0.050	105	85	115			
Strontium	0.487	mg/L	0.10	97	85	115			
Zinc	0.522	mg/L	0.010	104	85	115			
Sample ID: C08080990-003CMS3	Sample Matrix Spike		Run: SUB-C106856			09/03/08 02:41			
Barium	0.678	mg/L	0.10	100	70	130			
Boron	0.608	mg/L	0.10	105	70	130			
Chromium	0.524	mg/L	0.050	105	70	130			
Copper	0.522	mg/L	0.010	104	70	130			
Iron	4.25	mg/L	0.030	83	70	130			
Manganese	2.61	mg/L	0.010	102	70	130			
Molybdenum	0.520	mg/L	0.10	104	70	130			
Nickel	0.520	mg/L	0.050	104	70	130			
Strontium	0.968	mg/L	0.10	100	70	130			
Zinc	0.531	mg/L	0.010	102	70	130			
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate		Run: SUB-C106856			09/03/08 02:45			
Barium	0.702	mg/L	0.10	105	70	130	3.5	20	
Boron	0.625	mg/L	0.10	108	70	130	2.8	20	
Chromium	0.531	mg/L	0.050	106	70	130	1.3	20	
Copper	0.530	mg/L	0.010	106	70	130	1.5	20	
Iron	4.47	mg/L	0.030	92	70	130	5.2	20	
Manganese	2.65	mg/L	0.010	104	70	130	1.6	20	
Molybdenum	0.532	mg/L	0.10	106	70	130	2.3	20	
Nickel	0.523	mg/L	0.050	105	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_19595
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate					Run: SUB-C106856			09/03/08 02:45
Strontium	0.962	mg/L	0.10	98	70	130	0.6	20	
Zinc	0.546	mg/L	0.010	105	70	130	2.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R106856		
Sample ID: MB-080902A	Method Blank		Run: SUB-C106856				09/02/08 14:38		
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Cadmium	ND	mg/L	0.0008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.005						
Iron	0.005	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Strontium	ND	mg/L	0.0002						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080902A	Laboratory Fortified Blank		Run: SUB-C106856				09/02/08 14:42		
Silica	0.38	mg/L	0.10	96	85	125			
Aluminum	1.00	mg/L	0.10	100	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	0.96	mg/L	0.10	96	85	125			
Cadmium	1.0	mg/L	0.010	101	85	125			
Calcium	54	mg/L	0.50	107	85	125			
Chromium	1.0	mg/L	0.050	103	85	125			
Copper	1.0	mg/L	0.010	103	85	125			
Iron	1.1	mg/L	0.030	106	85	125			
Magnesium	53	mg/L	0.50	107	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	1.00	mg/L	0.10	100	85	125			
Nickel	1.0	mg/L	0.050	102	85	125			
Potassium	45	mg/L	0.50	91	85	125			
Sodium	50	mg/L	0.77	100	85	125			
Strontium	1.0	mg/L	0.10	102	85	125			
Zinc	1.0	mg/L	0.010	103	85	125			
Sample ID: C08081029-002CMS2	Sample Matrix Spike		Run: SUB-C106856				09/02/08 17:49		
Aluminum	2.06	mg/L	0.10	102	70	130			
Barium	2.10	mg/L	0.10	104	70	130			
Boron	2.27	mg/L	0.10	105	70	130			
Cadmium	2.09	mg/L	0.010	104	70	130			
Chromium	2.11	mg/L	0.050	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R106856		
Sample ID: C08081029-002CMS2	Sample Matrix Spike			Run: SUB-C106856			09/02/08 17:49		
Copper	2.10	mg/L	0.010	105	70	130			
Iron	24.2	mg/L	0.030		70	130			A
Manganese	3.64	mg/L	0.010	101	70	130			
Molybdenum	2.05	mg/L	0.10	102	70	130			
Nickel	2.07	mg/L	0.050	104	70	130			
Strontium	9.22	mg/L	0.10	98	70	130			
Zinc	2.11	mg/L	0.010	105	70	130			
Calcium	580	mg/L	1.0		70	130			A
Magnesium	252	mg/L	1.0	105	70	130			
Potassium	114	mg/L	1.0	93	70	130			
Silica	2.77	mg/L	0.10	67	70	130			S
Sodium	278	mg/L	1.5	106	70	130			
Sample ID: C08081029-002CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C106856			09/02/08 17:53		
Aluminum	2.05	mg/L	0.10	101	70	130	0.7	20	
Barium	2.09	mg/L	0.10	104	70	130	0.4	20	
Boron	2.27	mg/L	0.10	105	70	130	0	20	
Cadmium	2.02	mg/L	0.010	101	70	130	3.1	20	
Chromium	2.10	mg/L	0.050	105	70	130	0.7	20	
Copper	2.08	mg/L	0.010	104	70	130	0.9	20	
Iron	23.6	mg/L	0.030		70	130	2.3	20	A
Manganese	3.57	mg/L	0.010	98	70	130	1.8	20	
Molybdenum	2.07	mg/L	0.10	103	70	130	0.8	20	
Nickel	2.05	mg/L	0.050	102	70	130	1.2	20	
Strontium	9.00	mg/L	0.10	87	70	130	2.4	20	
Zinc	2.11	mg/L	0.010	105	70	130	0	20	
Calcium	569	mg/L	1.0		70	130	2	20	A
Magnesium	247	mg/L	1.0	101	70	130	1.7	20	
Potassium	113	mg/L	1.0	91	70	130	1.1	20	
Silica	2.80	mg/L	0.10	71	70	130	1	20	
Sodium	278	mg/L	1.5	106	70	130	0	20	
Method: E200.7_8							Batch: C_19720		
Sample ID: MB-19720	Method Blank			Run: SUB-C107379			09/10/08 23:44		
Uranium	2E-07	mg/L							
Sample ID: LCS1-19720	Laboratory Control Sample			Run: SUB-C107379			09/10/08 23:48		
Uranium	5.46E-05	mg/L	0.00030	103	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19595		
Sample ID: MB-19595	Method Blank			Run: SUB-C106973			09/03/08 22:42		
Antimony	ND	mg/L	0.0003						
Arsenic	0.007	mg/L							
Beryllium	ND	mg/L	0.0003						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0003						
Silver	ND	mg/L	0.002						
Thallium	ND	mg/L	0.0001						
Uranium	ND	mg/L	5E-05						
Sample ID: LCS3-19595	Laboratory Control Sample			Run: SUB-C106973			09/03/08 22:48		
Antimony	0.543	mg/L	0.050	109	85	115			
Arsenic	0.535	mg/L	0.0010	106	85	115			
Beryllium	0.261	mg/L	0.010	104	85	115			
Cadmium	0.273	mg/L	0.010	109	85	115			
Lead	0.509	mg/L	0.050	102	85	115			
Selenium	0.528	mg/L	0.0032	106	85	115			
Silver	0.0495	mg/L	0.016	99	85	115			
Thallium	0.502	mg/L	0.10	100	85	115			
Uranium	0.498	mg/L	0.00048	100	85	115			
Sample ID: C08080990-003CMS3	Sample Matrix Spike			Run: SUB-C106973			09/04/08 00:44		
Antimony	0.521	mg/L	0.050	104	70	130			
Arsenic	0.519	mg/L	0.0010	101	70	130			
Beryllium	0.251	mg/L	0.010	100	70	130			
Cadmium	0.262	mg/L	0.010	105	70	130			
Lead	0.493	mg/L	0.050	98	70	130			
Selenium	0.506	mg/L	0.0032	101	70	130			
Silver	0.0475	mg/L	0.016	95	70	130			
Thallium	0.483	mg/L	0.10	97	70	130			
Uranium	0.486	mg/L	0.00048	96	70	130			
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate			Run: SUB-C106973			09/04/08 00:51		
Antimony	0.516	mg/L	0.050	103	70	130	0.8	20	
Arsenic	0.552	mg/L	0.0010	108	70	130	6.1	20	
Beryllium	0.251	mg/L	0.010	101	70	130	0.3	20	
Cadmium	0.260	mg/L	0.010	104	70	130	0.9	20	
Lead	0.485	mg/L	0.050	96	70	130	1.7	20	
Selenium	0.553	mg/L	0.0032	111	70	130	8.9	20	
Silver	0.0490	mg/L	0.016	98	70	130	3.1	20	
Thallium	0.485	mg/L	0.10	97	70	130	0.2	20	
Uranium	0.479	mg/L	0.00048	95	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19595		
Sample ID: MB-19595	Method Blank				Run: SUB-C109482		10/18/08 14:16		
Arsenic	0.003	mg/L	5E-05						
Lead	ND	mg/L	5E-05						
Selenium	0.0007	mg/L	0.0002						
Uranium	ND	mg/L	3E-05						
Method: E200.8							Batch: C_19720		
Sample ID: C08081244-005CMS4	Post Digestion Spike				Run: SUB-C107379		09/11/08 02:12		
Uranium	0.0135	mg/L	0.00030	101	70	130			
Sample ID: C08081244-005CMSD4	Post Digestion Spike Duplicate				Run: SUB-C107379		09/11/08 02:16		
Uranium	0.0135	mg/L	0.00030	101	70	130	0.2	20	
Method: E200.8							Batch: C_R106481		
Sample ID: LRB	Method Blank				Run: SUB-C106481		08/25/08 13:26		
Arsenic	ND	mg/L	4E-05						
Zinc	0.0001	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C106481		08/25/08 17:18		
Arsenic	0.0504	mg/L	0.0010	101	85	115			
Zinc	0.0513	mg/L	0.0010	102	85	115			
Sample ID: C08080873-001BMS4	Post Digestion Spike				Run: SUB-C106481		08/26/08 07:31		
Arsenic	0.0421	mg/L	0.0010	84	70	130			
Zinc	0.0581	mg/L	0.010	81	70	130			
Sample ID: C08080873-001BMSD4	Post Digestion Spike Duplicate				Run: SUB-C106481		08/26/08 07:38		
Arsenic	0.0458	mg/L	0.0010	92	70	130	8.4	20	
Zinc	0.0595	mg/L	0.010	84	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R106879		
Sample ID: LRB	Method Blank			Run: SUB-C106879			09/02/08 13:32		
Antimony	ND	mg/L	7E-05						
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	3E-05						
Thallium	ND	mg/L	1E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	3E-05	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C106879			09/02/08 13:39		
Antimony	0.0519	mg/L	0.0010	104	85	115			
Arsenic	0.0504	mg/L	0.0010	101	85	115			
Cadmium	0.0514	mg/L	0.0010	103	85	115			
Copper	0.0526	mg/L	0.0010	105	85	115			
Lead	0.0512	mg/L	0.0010	102	85	115			
Mercury	0.00508	mg/L	0.0010	102	85	115			
Selenium	0.0507	mg/L	0.0010	101	85	115			
Silver	0.0206	mg/L	0.0010	103	85	115			
Thallium	0.0510	mg/L	0.0010	102	85	115			
Thorium 232	0.0497	mg/L	0.0010	99	85	115			
Uranium	0.0498	mg/L	0.00030	100	85	115			
Vanadium	0.0504	mg/L	0.0010	101	85	115			
Sample ID: C08080819-001BMS4	Post Digestion Spike			Run: SUB-C106879			09/03/08 01:57		
Antimony	0.0495	mg/L	0.050	99	70	130			
Arsenic	0.0477	mg/L	0.0010	94	70	130			
Cadmium	0.0482	mg/L	0.010	96	70	130			
Copper	0.0487	mg/L	0.010	94	70	130			
Lead	0.0478	mg/L	0.050	95	70	130			
Mercury	0.00482	mg/L	0.0010	96	70	130			
Selenium	0.0480	mg/L	0.0010	96	70	130			
Silver	0.0147	mg/L	0.010	73	70	130			
Thallium	0.0474	mg/L	0.10	95	70	130			
Thorium 232	0.0486	mg/L	0.0010	97	70	130			
Uranium	0.0492	mg/L	0.00030	98	70	130			
Vanadium	0.0469	mg/L	0.10	94	70	130			
Sample ID: C08080819-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C106879			09/03/08 02:31		
Antimony	0.0534	mg/L	0.050	107	70	130	7.6	20	
Arsenic	0.0514	mg/L	0.0010	102	70	130	7.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R106879		
Sample ID: C08080819-001BMSD4		Post Digestion Spike Duplicate		Run: SUB-C106879			09/03/08 02:31		
Cadmium	0.0513	mg/L	0.010	103	70	130	6.2	20	
Copper	0.0529	mg/L	0.010	102	70	130	8.4	20	
Lead	0.0527	mg/L	0.050	105	70	130	9.7	20	
Mercury	0.00533	mg/L	0.0010	107	70	130	10	20	
Selenium	0.0506	mg/L	0.0010	101	70	130	5.3	20	
Silver	0.0149	mg/L	0.010	74	70	130	1.5	20	
Thallium	0.0521	mg/L	0.10	104	70	130	0	20	
Thorium 232	0.0530	mg/L	0.0010	106	70	130	8.5	20	
Uranium	0.0536	mg/L	0.00030	107	70	130	8.5	20	
Vanadium	0.0507	mg/L	0.10	101	70	130	0	20	
Sample ID: C08080873-001BMS4		Post Digestion Spike		Run: SUB-C106879			09/03/08 02:45		
Antimony	0.0525	mg/L	0.050	105	70	130			
Arsenic	0.0492	mg/L	0.0010	98	70	130			
Cadmium	0.0488	mg/L	0.010	98	70	130			
Copper	0.0594	mg/L	0.010	98	70	130			
Lead	0.0502	mg/L	0.050	100	70	130			
Mercury	0.00504	mg/L	0.0010	101	70	130			
Selenium	0.402	mg/L	0.0010		70	130			A
Silver	0.0114	mg/L	0.010	57	70	130			S
Thallium	0.0495	mg/L	0.10	99	70	130			
Thorium 232	0.0525	mg/L	0.0010	105	70	130			
Uranium	0.260	mg/L	0.00030		70	130			A
Vanadium	0.0480	mg/L	0.10	95	70	130			
Sample ID: C08080873-001BMSD4		Post Digestion Spike Duplicate		Run: SUB-C106879			09/03/08 02:52		
Antimony	0.0509	mg/L	0.050	102	70	130	3.2	20	
Arsenic	0.0476	mg/L	0.0010	95	70	130	3.5	20	
Cadmium	0.0473	mg/L	0.010	94	70	130	3.3	20	
Copper	0.0576	mg/L	0.010	95	70	130	3	20	
Lead	0.0494	mg/L	0.050	99	70	130	0	20	
Mercury	0.00502	mg/L	0.0010	100	70	130	0.4	20	
Selenium	0.401	mg/L	0.0010		70	130	0.3	20	A
Silver	0.0117	mg/L	0.010	59	70	130	3.3	20	S
Thallium	0.0486	mg/L	0.10	97	70	130	0	20	
Thorium 232	0.0521	mg/L	0.0010	104	70	130	0.9	20	
Uranium	0.257	mg/L	0.00030		70	130	1.1	20	A
Vanadium	0.0474	mg/L	0.10	94	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R106973		
Sample ID: LRB	Method Blank								
Beryllium	ND	mg/L	4E-06						Run: SUB-C106973 09/03/08 13:38
Sample ID: LFB	Laboratory Fortified Blank								
Beryllium	0.0539	mg/L	0.0010	108	85	115			Run: SUB-C106973 09/03/08 13:45
Sample ID: R08080332-009D	Post Digestion Spike								
Beryllium	0.0565	mg/L	0.010	113	70	130			Run: SUB-C106973 09/04/08 05:22
Sample ID: R08080332-009D	Post Digestion Spike Duplicate								
Beryllium	0.0582	mg/L	0.010	116	70	130	2.9	20	Run: SUB-C106973 09/04/08 05:57
Method: E245.1							Batch: B_34292		
Sample ID: MB-34292	Method Blank								
Mercury	ND	mg/L	5E-05						Run: SUB-B116583 08/28/08 07:30
Sample ID: LFB-34292	Laboratory Fortified Blank								
Mercury	0.0019	mg/L	0.0010	94	85	115			Run: SUB-B116583 08/28/08 07:35
Sample ID: B08082231-001DMS	Sample Matrix Spike								
Mercury	0.0020	mg/L	0.0010	100	70	130			Run: SUB-B116583 08/28/08 08:13
Sample ID: B08082231-001DMSD	Sample Matrix Spike Duplicate								
Mercury	0.0023	mg/L	0.0010	115	70	130	14	30	Run: SUB-B116583 08/28/08 08:16
Method: E245.1							Analytical Run: SUB-B116583		
Sample ID: QCS	Initial Calibration Verification Standard								
Mercury	0.0020	mg/L	0.0010	98	90	110			08/28/08 07:20

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36973		
Sample ID: LFB0808213922-3	Laboratory Fortified Blank			Run: DIONEX_080821A			08/21/08 20:22		
Chloride	4.94	mg/L	0.50	99	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.46	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.52	mg/L	0.10	101	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: LFB0808213922-4	Laboratory Fortified Blank			Run: DIONEX_080821A			08/21/08 20:38		
Chloride	4.75	mg/L	0.50	95	90	110			
Fluoride	2.00	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: R08080296-001AMS	Sample Matrix Spike			Run: DIONEX_080821A			08/21/08 21:11		
Chloride	11.5	mg/L	0.50	89	80	120			
Fluoride	2.23	mg/L	0.10	95	80	120			
Nitrogen, Nitrate as N	2.53	mg/L	0.10	95	80	120			
Nitrogen, Nitrite as N	2.51	mg/L	0.10	100	80	120			
Sulfate	63.4	mg/L	1.0	74	80	120			S
Sample ID: R08080296-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080821A			08/21/08 21:27		
Chloride	11.2	mg/L	0.50	85	80	120	1.9	10	
Fluoride	2.14	mg/L	0.10	91	80	120	4.1	10	
Nitrogen, Nitrate as N	2.42	mg/L	0.10	91	80	120	4.4	10	
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	80	120	4.1	10	
Sulfate	62.8	mg/L	1.0	70	80	120	0.9	10	S
Sample ID: R08080301-003AMS	Sample Matrix Spike			Run: DIONEX_080821A			08/22/08 00:44		
Chloride	257	mg/L	5.4	92	80	120			
Fluoride	105	mg/L	0.56	99	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	98	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120			
Sulfate	2070	mg/L	3.4	104	80	120			
Sample ID: R08080301-003AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080821A			08/22/08 01:01		
Chloride	251	mg/L	5.4	90	80	120	2.4	10	
Fluoride	102	mg/L	0.56	97	80	120	2.7	10	
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120	2.6	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120	2.6	10	
Sulfate	2010	mg/L	3.4	97	80	120	2.6	10	
Sample ID: R08080323-001AMS	Sample Matrix Spike			Run: DIONEX_080821A			08/22/08 03:45		
Chloride	10.3	mg/L	0.50	89	80	120			
Fluoride	2.20	mg/L	0.10	94	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36973		
Sample ID: R08080323-001AMS	Sample Matrix Spike				Run: DIONEX_080821A		08/22/08 03:45		
Nitrogen, Nitrate as N	2.44	mg/L	0.10	92	80	120			
Nitrogen, Nitrite as N	2.46	mg/L	0.10	98	80	120			
Sulfate	63.8	mg/L	1.0	74	80	120			S
Sample ID: R08080323-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080821A		08/22/08 04:01		
Chloride	10.3	mg/L	0.50	89	80	120	0.1	10	
Fluoride	2.20	mg/L	0.10	94	80	120	0	10	
Nitrogen, Nitrate as N	2.44	mg/L	0.10	92	80	120	0	10	
Nitrogen, Nitrite as N	2.46	mg/L	0.10	98	80	120	0	10	
Sulfate	63.6	mg/L	1.0	72	80	120	0.4	10	S
Method: E900.0							Batch: C_GrAB-0526		
Sample ID: MB-GrAB-0526	Method Blank				Run: SUB-C108200		09/25/08 02:03		
Gross Alpha	-0.4	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0526	Laboratory Control Sample				Run: SUB-C108200		09/25/08 02:03		
Gross Alpha	140	pCi/L	102	70	130				
Sample ID: R08080332-009H	Sample Matrix Spike				Run: SUB-C108200		09/25/08 02:03		
Gross Alpha	120	pCi/L	90	70	130				
Sample ID: R08080332-009H	Sample Matrix Spike Duplicate				Run: SUB-C108200		09/25/08 02:03		
Gross Alpha	150	pCi/L	110	70	130	20	15.7		R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved									
Sample ID: Cs137-GrAB-0526	Laboratory Control Sample				Run: SUB-C108200		09/25/08 02:03		
Gross Beta	93	pCi/L	101	70	130				
Sample ID: R08080332-009H	Sample Matrix Spike				Run: SUB-C108200		09/25/08 14:09		
Gross Beta	73	pCi/L	82	70	130				
Sample ID: R08080332-009H	Sample Matrix Spike Duplicate				Run: SUB-C108200		09/25/08 14:09		
Gross Beta	97	pCi/L	107	70	130	28	16.3		R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved									
Sample ID: R08080301-002H	Sample Duplicate				Run: SUB-C108200		09/25/08 14:09		
Gross Alpha	71	pCi/L					10	40.3	
Gross Beta	16	pCi/L					59	69.5	

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R106893		
Sample ID: R08080332-007H	Sample Duplicate				Run: SUB-C106893		08/29/08 12:32		
Gross Gamma	ND	pCi/L					0	30	U
Sample ID: R08080332-009H	Sample Duplicate				Run: SUB-C106893		08/29/08 12:32		
Gross Gamma	1000	pCi/L					7.9	30	
Sample ID: MB-R106893	Method Blank				Run: SUB-C106893		08/29/08 12:32		
Gross Gamma	ND	pCi/L							U
Sample ID: LCS-R106893	Laboratory Control Sample				Run: SUB-C106893		08/29/08 12:32		
Cesium 137	39000	pCi/L	20	95	70	130			
Cobalt 60	49000	pCi/L	20	99	70	130			
Method: E903.0							Batch: C_19720		
Sample ID: C08080968-001FMS	Sample Matrix Spike				Run: SUB-C107779		09/17/08 15:43		
Radium 226	140	pCi/L		96	70	130			
Sample ID: C08080968-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C107779		09/17/08 15:43		
Radium 226	150	pCi/L		98	70	130	6.9	25.2	
Sample ID: LCS-19720	Laboratory Control Sample				Run: SUB-C107779		09/17/08 18:56		
Radium 226	74	pCi/L		96	70	130			
Sample ID: MB-19720	Method Blank				Run: SUB-C107779		09/17/08 18:56		
Radium 226	-0.4	pCi/L							U
Method: E903.0							Batch: C_RA226-3058		
Sample ID: C08080934-001EMS	Sample Matrix Spike				Run: SUB-C107589		09/15/08 14:53		
Radium 226	14	pCi/L		91	70	130			
Sample ID: C08080934-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C107589		09/15/08 14:53		
Radium 226	14	pCi/L		92	70	130	0.5	24.6	
Sample ID: MB-RA226-3058	Method Blank				Run: SUB-C107589		09/15/08 18:05		
Radium 226	-0.2	pCi/L							U
Sample ID: LCS-RA226-3058	Laboratory Control Sample				Run: SUB-C107589		09/15/08 18:05		
Radium 226	6.8	pCi/L		88	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R108747		
Sample ID: R08080332-0011	Sample Matrix Spike				Run: SUB-C108747			09/28/08 13:33	
Thorium 230	21.4	pCi/L	0.20	95	70	130			
Sample ID: R08080332-0011	Sample Matrix Spike Duplicate				Run: SUB-C108747			09/28/08 13:33	
Thorium 230	25.8	pCi/L	0.20	111	70	130	19	40.7	
Sample ID: LCS-19720	Laboratory Control Sample				Run: SUB-C108747			09/29/08 13:22	
Thorium 230	47.0	pCi/L	0.20	102	70	130			
Sample ID: MB-19720	Method Blank				Run: SUB-C108747			09/29/08 13:22	
Thorium 230	0.6	pCi/L							U
Method: E907.0							Batch: C_RA-TH-ISO-0633		
Sample ID: LCS-RA-TH-ISO-0633	Laboratory Control Sample				Run: SUB-C108242			09/19/08 13:54	
Thorium 230	6.17	pCi/L	0.20	102	70	130			
Sample ID: R08080301-004H	Sample Matrix Spike				Run: SUB-C108242			09/20/08 12:26	
Thorium 230	10.5	pCi/L	0.20	86	70	130			
Sample ID: R08080301-004H	Sample Matrix Spike Duplicate				Run: SUB-C108242			09/20/08 12:26	
Thorium 230	10.9	pCi/L	0.20	91	70	130	4.1	40.3	
Sample ID: MB-RA-TH-ISO-0633	Method Blank				Run: SUB-C108242			09/21/08 12:56	
Thorium 230	-0.02	pCi/L							U
Method: E909.0M							Batch: C_19720		
Sample ID: R08080332-009I	Sample Matrix Spike				Run: SUB-C108784			09/12/08 10:37	
Lead 210	240	pCi/L		89	70	130			
Sample ID: R08080332-009I	Sample Matrix Spike Duplicate				Run: SUB-C108784			09/12/08 10:37	
Lead 210	300	pCi/L		111	70	130	23	30	
Sample ID: MB-R108784	Method Blank				Run: SUB-C108784			09/12/08 10:37	
Lead 210	-6	pCi/L							U
Sample ID: LCS-R108784	Laboratory Control Sample				Run: SUB-C108784			09/12/08 10:37	
Lead 210	100	pCi/L		92	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R107511		
Sample ID: R08080332-005H Lead 210	Sample Matrix Spike 410	pCi/L		70	70	130			09/04/08 07:39
Sample ID: R08080332-005H Lead 210	Sample Matrix Spike Duplicate 450	pCi/L		77	70	130	9.5	30	09/04/08 07:39
Sample ID: MB-R107511 Lead 210	Method Blank -3	pCi/L							09/04/08 07:39 U
Sample ID: LCS-R107511 Lead 210	Laboratory Control Sample 86	pCi/L		76	70	130			09/04/08 07:39
Method: RMO-3008							Batch: C_19720		
Sample ID: C08081029-005IMS Polonium 210	Sample Matrix Spike 36	pCi/L	1.0	83	70	130			09/15/08 14:35
Sample ID: C08081029-005IMSD Polonium 210	Sample Matrix Spike Duplicate 48	pCi/L	1.0	111	70	130	29	30	09/15/08 14:35
Sample ID: LCS-R108077 Polonium 210	Laboratory Control Sample 81	pCi/L	1.0	95	70	130			09/15/08 14:35
Sample ID: MB-R108077 Polonium 210	Method Blank 0.9	pCi/L							09/15/08 14:35 U
Method: RMO-3008							Batch: C_R107620		
Sample ID: C08081029-005HMS Polonium 210	Sample Matrix Spike 79	pCi/L	1.0	93	70	130			09/03/08 19:15
Sample ID: C08081029-005HMSD Polonium 210	Sample Matrix Spike Duplicate 82	pCi/L	1.0	97	70	130	3.7	30	09/03/08 19:15
Sample ID: LCS-R107620 Polonium 210	Laboratory Control Sample 44	pCi/L	1.0	102	70	130			09/03/08 19:15
Sample ID: MB-R107620 Polonium 210	Method Blank ND	pCi/L							09/03/08 19:15 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Brown RESPEC		Project Name, PWS, Permit, Etc. Powerful Dewey Burdick		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: Lesler		Contact Name: Cory Foreman		Email: Eric.Krahe	Sampler: (Please Print) Eric Krahe
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - ELI must be notified prior to sample submittal for the following:				Shipped by:	
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Cooler Dplx:	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	Receipt Temp 5.9 °C	
1 Dew Burd GW 3026		8/19/2008	16:25	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2 Dew Burd GW 3026		8/19/2008	16:35	Custody Seal Intact: <input type="checkbox"/> Y <input type="checkbox"/> N	
3 Dew Burd GW 698		8/19/2008	17:35	Signature: <input type="checkbox"/> Y <input type="checkbox"/> N	
4 Dew Burd GW 681		8/19/2008	19:08	Magnet: <input type="checkbox"/> Y <input type="checkbox"/> N	
5 Dew Burd GW 689		8/19/2008	19:18	Comments: All GW.	
6				Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	
7				ANALYSIS REQUESTED As Per Bunk	
8				SEE ATTACHED Normal Turnaround (TAT)	
9				R U S H	
10				LABORATORY USE ONLY 888880301-001	
Custody Record Must be Signed		Requisitioned by (print): Eric Krahe	Date/Time: 8/19/08 21:50	Signature: [Signature]	Received by (print): Shirley Sherman
Sample Disposal:		Return to Client:	Lab Disposal:	Received by Laboratory:	Date/Time: 7/20/08 800

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

November 14, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08080332 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 9 samples for RESPEC Inc on 8/21/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08080332-001	DewBurd GW688	08/20/08 10:07	08/21/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08080332-002	DewBurd GW680	08/20/08 10:23	08/21/08	Aqueous	Same As Above
R08080332-003	DewBurd GW622	08/20/08 12:59	08/21/08	Aqueous	Same As Above
R08080332-004	DewBurd GW615	08/20/08 13:26	08/21/08	Aqueous	Same As Above
R08080332-005	DewBurd GW695	08/20/08 14:20	08/21/08	Aqueous	Same As Above
R08080332-006	DewBurd GW696	08/20/08 15:10	08/21/08	Aqueous	Same As Above
R08080332-007	DewBurd GW694	08/20/08 15:45	08/21/08	Aqueous	Same As Above
R08080332-008	DewBurd GW697	08/20/08 17:10	08/21/08	Aqueous	Same As Above



ANALYTICAL SUMMARY REPORT

R08080332-009	DewBurd BLK01	08/20/08 17:25	08/21/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
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As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson
Rapid City - Project Manager



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08080332

Date: 14-Nov-08

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08081026

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis. The MDC of 0.2 pCi/L for Ra226 was not achievable on all samples due to insufficient volume.

End of comments imported for SUBBED Workorder: C08081026



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-001
 Client Sample ID: DewBurd GW688

Report Date: 11/14/08
 Collection Date: 08/20/08 10:07
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
MAJOR IONS							
Alkalinity, Total as CaCO3	166	mg/L		5	1	A2320 B	08/21/08 14:44/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	08/21/08 14:44/mb
Bicarbonate as HCO3	202	mg/L		5	1	A2320 B	08/21/08 14:44/mb
Calcium	51.7	mg/L		0.5	2	E200.7	09/02/08 15:56/eli-c
Chloride	11	mg/L		1	1	E300.0	08/22/08 20:03/jmh
Fluoride	0.6	mg/L		0.1	1	E300.0	08/22/08 20:03/jmh
Magnesium	21.6	mg/L		0.5	2	E200.7	09/02/08 15:56/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1	1	A4500-NH3 G	08/21/08 18:28/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	08/22/08 20:03/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	08/22/08 20:03/jmh
Potassium	12.1	mg/L		0.5	2	E200.7	09/02/08 15:56/eli-c
Silica	3.9	mg/L		0.5	2	E200.7	09/02/08 15:56/eli-c
Sodium	196	mg/L	D	2	2	E200.7	09/02/08 15:56/eli-c
Sulfate	425	mg/L	D	3	50	E300.0	08/22/08 19:14/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1430	umhos/cm		5.0	1	A2510 B	08/22/08 11:55/tb
Oxidation-Reduction Potential	180	mV			1	A2580 B	08/25/08 00:00/jmh
pH	8.35	s.u.		0.01	1	A4500-H B	08/22/08 14:01/tb
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10	1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5	1	A2540 C	08/25/08 16:02/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	2	E200.7	09/02/08 15:56/eli-c
Arsenic	ND	mg/L		0.001	1	E200.8	10/27/08 12:44/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 15:56/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/02/08 15:56/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	09/04/08 03:00/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 15:56/eli-c
Copper	ND	mg/L		0.01	1	E200.8	09/04/08 03:00/eli-c
Iron	0.04	mg/L		0.03	2	E200.7	09/02/08 15:56/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/04/08 03:00/eli-c
Manganese	0.05	mg/L		0.01	2	E200.7	09/02/08 15:56/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	09/04/08 03:00/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 15:56/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 15:56/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	09/01/08 11:58/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/04/08 17:07/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	09/04/08 03:00/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-001
 Client Sample ID: DewBurd GW688

Report Date: 11/14/08
 Collection Date: 08/20/08 10:07
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/04/08 03:00/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/02/08 15:56/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 15:56/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:14/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:30/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	11.8	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	3.4	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	11.0	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	3.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	3.8	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	1.7	pCi/L				1	E903.0	09/20/08 21:07/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	09/20/08 21:07/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-6	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-001
 Client Sample ID: DewBurd GW688

Report Date: 11/14/08
 Collection Date: 08/20/08 10:07
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	449	pCi/L		100		1 D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	90.9	pCi/L				1 D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	09/04/08 03:07/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	10/28/08 17:06/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/02/08 19:10/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	09/04/08 03:07/eli-c
Boron	ND	mg/L		0.1		2 E200.7	09/02/08 19:10/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	09/04/08 03:07/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/02/08 19:10/eli-c
Copper	ND	mg/L		0.01		2 E200.7	09/02/08 19:10/eli-c
Iron	0.24	mg/L		0.03		2 E200.7	09/02/08 19:10/eli-c
Lead	ND	mg/L		0.001		1 E200.8	09/04/08 03:07/eli-c
Manganese	0.05	mg/L		0.01		2 E200.7	09/02/08 19:10/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	08/28/08 08:55/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	09/02/08 19:10/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/02/08 19:10/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	09/04/08 03:07/eli-c
Silver	ND	mg/L		0.005		1 E200.8	09/04/08 17:14/eli-c
Strontium	1.3	mg/L		0.1		2 E200.7	09/02/08 19:10/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	09/04/08 03:07/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	09/04/08 03:07/eli-c
Zinc	0.01	mg/L		0.01		2 E200.7	09/02/08 19:10/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.75	%				1 A1030 E	11/04/08 00:00/jmh
Anions	12.5	meq/L				1 A1030 E	11/04/08 00:00/jmh
Cations	13.2	meq/L				1 A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	829	mg/L				1 A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970					1 A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-002
 Client Sample ID: DewBurd GW680

Report Date: 11/14/08
 Collection Date: 08/20/08 10:23
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	160	mg/L		5			1	A2320 B	08/21/08 14:47/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	08/21/08 14:47/mb
Bicarbonate as HCO3	195	mg/L		5			1	A2320 B	08/21/08 14:47/mb
Calcium	395	mg/L		0.5			2	E200.7	09/02/08 16:08/eli-c
Chloride	13	mg/L		1			1	E300.0	08/22/08 20:36/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	08/22/08 20:36/jmh
Magnesium	129	mg/L		0.5			2	E200.7	09/02/08 16:08/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	08/21/08 18:29/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	08/22/08 20:36/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	08/22/08 20:36/jmh
Potassium	18.8	mg/L		0.5			2	E200.7	09/02/08 16:08/eli-c
Silica	3.8	mg/L		0.5			2	E200.7	09/02/08 16:08/eli-c
Sodium	138	mg/L	D	2			2	E200.7	09/02/08 16:08/eli-c
Sulfate	1430	mg/L	D	3			50	E300.0	08/22/08 20:20/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2920	umhos/cm		5.0			1	A2510 B	08/22/08 11:59/tb
Oxidation-Reduction Potential	230	mV					1	A2580 B	08/25/08 00:00/jmh
pH	7.65	s.u.		0.01			1	A4500-H B	08/22/08 14:05/tb
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10			1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5			1	A2540 C	08/25/08 16:02/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	09/02/08 16:08/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	10/27/08 12:49/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/02/08 16:08/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	09/02/08 16:08/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/04/08 03:14/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/02/08 16:08/eli-c
Copper	ND	mg/L		0.01			1	E200.8	09/04/08 03:14/eli-c
Iron	0.20	mg/L		0.03			2	E200.7	09/02/08 16:08/eli-c
Lead	ND	mg/L		0.001			1	E200.8	09/04/08 03:14/eli-c
Manganese	0.46	mg/L		0.01			2	E200.7	09/02/08 16:08/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	09/04/08 03:14/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	09/02/08 16:08/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/02/08 16:08/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	09/01/08 12:00/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/04/08 17:21/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	09/04/08 03:14/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-002
 Client Sample ID: DewBurd GW680

Report Date: 11/14/08
 Collection Date: 08/20/08 10:23
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0188	mg/L		0.0003		1 E200.8	09/04/08 03:14/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	09/02/08 16:08/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/02/08 16:08/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/11/08 00:19/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/31/08 16:32/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	4330	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	67.6	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	8.5	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Gross Beta	1190	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	16.9	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	9.5	pCi/L				1 E900.0	09/25/08 02:03/eli-c
Lead 210	15.2	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.6	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1 E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.6	pCi/L	U	1.0		1 RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1 RMO-3008	09/03/08 19:15/eli-c
Radium 226	1270	pCi/L				1 E903.0	09/20/08 21:10/eli-c
Radium 226 precision (±)	45.6	pCi/L				1 E903.0	09/20/08 21:10/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1 E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	09/21/08 12:59/eli-c
Gross Gamma	3200	pCi/L		20		1 E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	120	pCi/L				1 E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-4	pCi/L	U			1 E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1 E909.0M	09/12/08 10:37/eli-c
Polonium 210	1.0	pCi/L	U	1.0		1 RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.62	pCi/L				1 RMO-3008	09/15/08 14:35/eli-c
Radium 226	2.1	pCi/L				1 E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.5	pCi/L				1 E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-002
 Client Sample ID: DewBurd GW680

Report Date: 11/14/08
 Collection Date: 08/20/08 10:23
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	112000	pCi/L		100		1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	530	pCi/L				1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	09/04/08 00:03/eli-c
Arsenic	0.005	mg/L	D	0.004		1	E200.8	10/18/08 14:48/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/03/08 03:26/eli-c
Beryllium	ND	mg/L	D	0.003		10	E200.8	09/04/08 00:03/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	09/03/08 03:26/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	09/04/08 00:03/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/03/08 03:26/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/03/08 03:26/eli-c
Iron	0.31	mg/L		0.03		2	E200.7	09/03/08 03:26/eli-c
Lead	ND	mg/L		0.001		10	E200.8	09/04/08 00:03/eli-c
Manganese	0.46	mg/L		0.01		2	E200.7	09/03/08 03:26/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/28/08 08:58/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/03/08 03:26/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/03/08 03:26/eli-c
Selenium	ND	mg/L	D	0.003		10	E200.8	09/04/08 00:03/eli-c
Silver	ND	mg/L	D	0.02		10	E200.8	09/04/08 00:03/eli-c
Strontium	7.2	mg/L		0.1		2	E200.7	09/03/08 03:26/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	09/04/08 00:03/eli-c
Uranium	0.0180	mg/L	D	0.0005		10	E200.8	09/04/08 00:03/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/03/08 03:26/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.11	%				1	A1030 E	11/04/08 00:00/jmh
Anions	33.2	meq/L				1	A1030 E	11/04/08 00:00/jmh
Cations	36.8	meq/L				1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	2230	mg/L				1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03					1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-003
 Client Sample ID: DewBurd GW622

Report Date: 11/14/08
 Collection Date: 08/20/08 12:59
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	184	mg/L		5		1	A2320 B 08/21/08 15:18/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 08/21/08 15:18/mb
Bicarbonate as HCO3	224	mg/L		5		1	A2320 B 08/21/08 15:18/mb
Calcium	95.2	mg/L		0.5		2	E200.7 09/02/08 17:01/eli-c
Chloride	10	mg/L		1		1	E300.0 08/22/08 21:09/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 08/22/08 21:09/jmh
Magnesium	32.3	mg/L		0.5		2	E200.7 09/02/08 17:01/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 08/21/08 18:33/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 08/22/08 21:09/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 08/22/08 21:09/jmh
Potassium	10.6	mg/L		0.5		2	E200.7 09/02/08 17:01/eli-c
Silica	3.9	mg/L		0.5		2	E200.7 09/02/08 17:01/eli-c
Sodium	183	mg/L	D	2		2	E200.7 09/02/08 17:01/eli-c
Sulfate	504	mg/L	D	3		50	E300.0 08/22/08 20:53/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1460	umhos/cm		5.0		1	A2510 B 08/22/08 12:00/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B 08/25/08 00:00/jmh
pH	7.84	s.u.		0.01		1	A4500-H B 08/22/08 14:05/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10		1	Calculation 11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C 08/25/08 16:03/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 09/02/08 17:01/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 09/04/08 03:20/eli-c
Barium	ND	mg/L		0.1		2	E200.7 09/02/08 17:01/eli-c
Boron	ND	mg/L		0.1		2	E200.7 09/02/08 17:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 09/04/08 03:20/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 09/02/08 17:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8 09/04/08 03:20/eli-c
Iron	ND	mg/L		0.03		2	E200.7 09/02/08 17:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8 09/04/08 03:20/eli-c
Manganese	0.19	mg/L		0.01		2	E200.7 09/02/08 17:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 09/04/08 03:20/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 09/02/08 17:01/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 09/02/08 17:01/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 09/01/08 12:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8 09/04/08 17:28/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 09/04/08 03:20/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08080332-003
Client Sample ID: DewBurd GW622

Report Date: 11/14/08
Collection Date: 08/20/08 12:59
Date Received: 08/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0050	mg/L		0.0003		1	E200.8	09/04/08 03:20/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/02/08 17:01/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 17:01/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:23/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:35/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	27.7	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	4.2	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	3.8	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	12.4	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	3.0	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	4.7	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	0.1	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	4.4	pCi/L				1	E903.0	09/20/08 22:40/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	09/20/08 22:40/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-4	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-003
 Client Sample ID: DewBurd GW622

Report Date: 11/14/08
 Collection Date: 08/20/08 12:59
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1370	pCi/L		100			1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	101	pCi/L					1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	09/04/08 03:27/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	10/28/08 18:26/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/02/08 19:14/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	09/04/08 03:27/eli-c
Boron	ND	mg/L		0.1			2	E200.7	09/02/08 19:14/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/04/08 03:27/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/02/08 19:14/eli-c
Copper	ND	mg/L		0.01			2	E200.7	09/02/08 19:14/eli-c
Iron	1.00	mg/L		0.03			2	E200.7	09/02/08 19:14/eli-c
Lead	ND	mg/L		0.001			1	E200.8	09/04/08 03:27/eli-c
Manganese	0.19	mg/L		0.01			2	E200.7	09/02/08 19:14/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	08/28/08 09:00/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	09/02/08 19:14/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/02/08 19:14/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	09/04/08 03:27/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/04/08 17:35/eli-c
Strontium	1.6	mg/L		0.1			2	E200.7	09/02/08 19:14/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	09/04/08 03:27/eli-c
Uranium	0.0050	mg/L		0.0003			1	E200.8	09/04/08 03:27/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	09/02/08 19:14/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.93	%					1	A1030 E	11/04/08 00:00/jmh
Anions	14.5	meq/L					1	A1030 E	11/04/08 00:00/jmh
Cations	15.7	meq/L					1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	957	mg/L					1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	11/04/08 00:00/jmh

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-004
 Client Sample ID: DewBurd GW615

Report Date: 11/14/08
 Collection Date: 08/20/08 13:26
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
MAJOR IONS							
Alkalinity, Total as CaCO3	142	mg/L		5	1	A2320 B	08/21/08 15:20/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	08/21/08 15:20/mb
Bicarbonate as HCO3	173	mg/L		5	1	A2320 B	08/21/08 15:20/mb
Calcium	78.0	mg/L		0.5	2	E200.7	09/02/08 17:05/eli-c
Chloride	5	mg/L		1	1	E300.0	08/22/08 21:42/jmh
Fluoride	0.6	mg/L		0.1	1	E300.0	08/22/08 21:42/jmh
Magnesium	22.7	mg/L		0.5	2	E200.7	09/02/08 17:05/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1	1	A4500-NH3 G	08/21/08 18:36/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	08/22/08 21:42/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	08/22/08 21:42/jmh
Potassium	9.1	mg/L		0.5	2	E200.7	09/02/08 17:05/eli-c
Silica	4.1	mg/L		0.5	2	E200.7	09/02/08 17:05/eli-c
Sodium	138	mg/L	D	2	2	E200.7	09/02/08 17:05/eli-c
Sulfate	401	mg/L	D	3	50	E300.0	08/22/08 21:25/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1250	umhos/cm		5.0	1	A2510 B	08/22/08 12:02/tb
Oxidation-Reduction Potential	330	mV			1	A2580 B	08/25/08 00:00/jmh
pH	8.03	s.u.		0.01	1	A4500-H B	08/22/08 14:10/tb
Sodium Adsorption Ratio (SAR)	3.5	unitless		0.10	1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	740	mg/L		5	1	A2540 C	08/25/08 16:03/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	2	E200.7	09/02/08 17:05/eli-c
Arsenic	0.018	mg/L		0.001	1	E200.8	10/27/08 12:54/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 17:05/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/02/08 17:05/eli-c
Cadmium	ND	mg/L		0.005	2	E200.7	09/02/08 17:05/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 17:05/eli-c
Copper	ND	mg/L		0.01	1	E200.8	09/04/08 03:34/eli-c
Iron	0.73	mg/L		0.03	2	E200.7	09/02/08 17:05/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/04/08 03:34/eli-c
Manganese	0.07	mg/L		0.01	2	E200.7	09/02/08 17:05/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	09/04/08 03:34/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 17:05/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 17:05/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	09/01/08 12:05/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/04/08 17:41/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	09/04/08 03:34/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-004
 Client Sample ID: DewBurd GW615

Report Date: 11/14/08
 Collection Date: 08/20/08 13:26
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0023	mg/L		0.0003		1	E200.8	09/04/08 03:34/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/02/08 17:05/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 17:05/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:27/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:37/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	17.3	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	2.9	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	9.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	3.2	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	4.6	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	1.8	pCi/L				1	E903.0	09/21/08 00:11/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	09/21/08 00:11/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-6	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-004
 Client Sample ID: DewBurd GW615

Report Date: 11/14/08
 Collection Date: 08/20/08 13:26
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.2	pCi/L	U	0.2	1	E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L			1	E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	1880	pCi/L		100	1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	106	pCi/L			1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003	1	E200.8	09/04/08 03:41/eli-c
Arsenic	0.021	mg/L		0.001	1	E200.8	10/28/08 18:32/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 19:31/eli-c
Beryllium	ND	mg/L		0.001	1	E200.8	09/04/08 03:41/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/02/08 19:31/eli-c
Cadmium	ND	mg/L		0.005	2	E200.7	09/02/08 19:31/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 19:31/eli-c
Copper	ND	mg/L		0.01	2	E200.7	09/02/08 19:31/eli-c
Iron	1.32	mg/L		0.03	2	E200.7	09/02/08 19:31/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/04/08 03:41/eli-c
Manganese	0.07	mg/L		0.01	2	E200.7	09/02/08 19:31/eli-c
Mercury	ND	mg/L		0.001	1	E245.1	08/28/08 09:07/eli-b
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 19:31/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 19:31/eli-c
Selenium	ND	mg/L		0.001	1	E200.8	09/04/08 03:41/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/04/08 17:48/eli-c
Strontium	1.4	mg/L		0.1	2	E200.7	09/02/08 19:31/eli-c
Thallium	ND	mg/L		0.001	1	E200.8	09/04/08 03:41/eli-c
Uranium	0.0023	mg/L		0.0003	1	E200.8	09/04/08 03:41/eli-c
Zinc	0.01	mg/L		0.01	2	E200.7	09/02/08 19:31/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.92	%			1	A1030 E	11/04/08 00:00/jmh
Anions	11.4	meq/L			1	A1030 E	11/04/08 00:00/jmh
Cations	12.0	meq/L			1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	751	mg/L			1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980				1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-005
 Client Sample ID: DewBurd GW695

Report Date: 11/14/08
 Collection Date: 08/20/08 14:20
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	172	mg/L		5		1 A2320 B	08/21/08 15:22/mb
Carbonate as CO3	ND	mg/L		5		1 A2320 B	08/21/08 15:22/mb
Bicarbonate as HCO3	210	mg/L		5		1 A2320 B	08/21/08 15:22/mb
Calcium	52.7	mg/L		0.5		2 E200.7	09/02/08 17:09/eli-c
Chloride	12	mg/L		1		1 E300.0	08/22/08 23:20/jmh
Fluoride	0.5	mg/L		0.1		1 E300.0	08/22/08 23:20/jmh
Magnesium	18.9	mg/L		0.5		2 E200.7	09/02/08 17:09/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1 A4500-NH3 G	08/21/08 18:37/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1 E300.0	08/22/08 23:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1 E300.0	08/22/08 23:20/jmh
Potassium	8.6	mg/L		0.5		2 E200.7	09/02/08 17:09/eli-c
Silica	4.0	mg/L		0.5		2 E200.7	09/02/08 17:09/eli-c
Sodium	258	mg/L	D	2		2 E200.7	09/02/08 17:09/eli-c
Sulfate	466	mg/L	D	3	50	1 E300.0	08/22/08 22:31/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1650	umhos/cm		5.0		1 A2510 B	08/22/08 12:03/tb
Oxidation-Reduction Potential	210	mV				1 A2580 B	08/25/08 00:00/jmh
pH	8.08	s.u.		0.01		1 A4500-H B	08/22/08 14:11/tb
Sodium Adsorption Ratio (SAR)	7.8	unitless		0.10		1 Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1 A2540 C	08/25/08 16:04/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2 E200.7	09/02/08 17:09/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	09/04/08 03:47/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/02/08 17:09/eli-c
Boron	ND	mg/L		0.1		2 E200.7	09/02/08 17:09/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	09/04/08 03:47/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/02/08 17:09/eli-c
Copper	ND	mg/L		0.01		1 E200.8	09/04/08 03:47/eli-c
Iron	ND	mg/L		0.03		2 E200.7	09/02/08 17:09/eli-c
Lead	ND	mg/L		0.001		1 E200.8	09/04/08 03:47/eli-c
Manganese	0.08	mg/L		0.01		2 E200.7	09/02/08 17:09/eli-c
Mercury	ND	mg/L		0.001		1 E200.8	09/04/08 03:47/eli-c
Molybdenum	ND	mg/L		0.1		2 E200.7	09/02/08 17:09/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/02/08 17:09/eli-c
Selenium	ND	mg/L		0.001		1 A3114 B	09/01/08 12:07/eli-c
Silver	ND	mg/L		0.005		1 E200.8	09/04/08 17:55/eli-c
Thorium 232	ND	mg/L		0.005		1 E200.8	09/04/08 03:47/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08080332-005
Client Sample ID: DewBurd GW695

Report Date: 11/14/08
Collection Date: 08/20/08 14:20
Date Received: 08/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Uranium	0.0026	mg/L		0.0003	1	E200.8	09/04/08 03:47/eli-c
Vanadium	ND	mg/L		0.1	2	E200.7	09/02/08 17:09/eli-c
Zinc	ND	mg/L		0.01	2	E200.7	09/02/08 17:09/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003	1	E200.8	09/11/08 00:32/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001	1	A3114 B	08/31/08 16:39/eli-c
Selenium-VI	ND	mg/L		0.001	1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	21.6	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	4.0	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	3.9	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Gross Beta	8.5	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	3.0	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	4.7	pCi/L			1	E900.0	09/25/08 02:03/eli-c
Lead 210	-1	pCi/L	U		1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.3	pCi/L			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L			1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	-0.2	pCi/L	U	1.0	1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.40	pCi/L			1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	3.9	pCi/L			1	E903.0	09/21/08 01:41/eli-c
Radium 226 precision (±)	0.5	pCi/L			1	E903.0	09/21/08 01:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2	1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.09	pCi/L			1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	450	pCi/L		20	1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	60	pCi/L			1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-6	pCi/L	U		1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L			1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.1	pCi/L	U	1.0	1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.31	pCi/L			1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.005	pCi/L	U		1	E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.3	pCi/L			1	E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L			1	E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-005
 Client Sample ID: DewBurd GW695

Report Date: 11/14/08
 Collection Date: 08/20/08 14:20
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.09	pCi/L					1	E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1950	pCi/L		100			1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	107	pCi/L					1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	09/04/08 03:54/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/28/08 18:37/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/02/08 19:35/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	09/04/08 03:54/eli-c
Boron	ND	mg/L		0.1			2	E200.7	09/02/08 19:35/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/04/08 03:54/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/02/08 19:35/eli-c
Copper	ND	mg/L		0.01			2	E200.7	09/02/08 19:35/eli-c
Iron	0.16	mg/L		0.03			2	E200.7	09/02/08 19:35/eli-c
Lead	ND	mg/L		0.001			1	E200.8	09/04/08 03:54/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	09/02/08 19:35/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	08/29/08 13:59/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	09/02/08 19:35/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/02/08 19:35/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	09/04/08 03:54/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/04/08 18:02/eli-c
Strontium	0.9	mg/L		0.1			2	E200.7	09/02/08 19:35/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	09/04/08 03:54/eli-c
Uranium	0.0026	mg/L		0.0003			1	E200.8	09/04/08 03:54/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	09/02/08 19:35/eli-c
DATA QUALITY									
A/C Balance (± 5)	7.38	%					1	A1030 E	11/04/08 00:00/jmh
Anions	13.5	meq/L					1	A1030 E	11/04/08 00:00/jmh
Cations	15.6	meq/L					1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	931	mg/L					1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-006
 Client Sample ID: DewBurd GW696

Report Date: 11/14/08
 Collection Date: 08/20/08 15:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B 08/21/08 15:25/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 08/21/08 15:25/mb
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B 08/21/08 15:25/mb
Calcium	32.3	mg/L		0.5		2	E200.7 09/02/08 17:13/eli-c
Chloride	13	mg/L		1		1	E300.0 08/22/08 23:53/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 08/22/08 23:53/jmh
Magnesium	11.0	mg/L		0.5		2	E200.7 09/02/08 17:13/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G 08/21/08 18:39/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 08/22/08 23:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 08/22/08 23:53/jmh
Potassium	9.3	mg/L		0.5		2	E200.7 09/02/08 17:13/eli-c
Silica	4.5	mg/L		0.5		2	E200.7 09/02/08 17:13/eli-c
Sodium	297	mg/L	D	2		2	E200.7 09/02/08 17:13/eli-c
Sulfate	495	mg/L	D	3		50	E300.0 08/22/08 23:37/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1690	umhos/cm		5.0		1	A2510 B 08/22/08 12:04/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B 08/25/08 00:00/jmh
pH	8.29	s.u.		0.01		1	A4500-H B 08/22/08 14:12/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation 11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	930	mg/L		5		1	A2540 C 08/25/08 16:05/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 09/02/08 17:13/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 09/04/08 04:28/eli-c
Barium	ND	mg/L		0.1		2	E200.7 09/02/08 17:13/eli-c
Boron	ND	mg/L		0.1		2	E200.7 09/02/08 17:13/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 09/04/08 04:28/eli-c
Chromium	ND	mg/L		0.05		2	E200.7 09/02/08 17:13/eli-c
Copper	ND	mg/L		0.01		1	E200.8 09/04/08 04:28/eli-c
Iron	ND	mg/L		0.03		2	E200.7 09/02/08 17:13/eli-c
Lead	ND	mg/L		0.001		1	E200.8 09/04/08 04:28/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7 09/02/08 17:13/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 09/04/08 04:28/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7 09/02/08 17:13/eli-c
Nickel	ND	mg/L		0.05		2	E200.7 09/02/08 17:13/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 09/01/08 12:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8 09/05/08 01:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 09/05/08 01:44/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-006
 Client Sample ID: DewBurd GW696

Report Date: 11/14/08
 Collection Date: 08/20/08 15:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/04/08 04:28/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/04/08 04:28/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 17:13/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:36/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	7.1	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	2.9	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	3.9	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	6.7	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	4.7	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	3.4	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	-0.3	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.10	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	1.3	pCi/L				1	E903.0	09/21/08 03:12/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/21/08 03:12/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.2	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.6	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	09/17/08 15:43/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/17/08 15:43/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 15:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-006
 Client Sample ID: DewBurd GW696

Report Date: 11/14/08
 Collection Date: 08/20/08 15:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2	1	E907.0	09/28/08 13:33/eli-c
Thorium 230 precision (±)	0.08	pCi/L			1	E907.0	09/28/08 13:33/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	343	pCi/L		100	1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	86.3	pCi/L			1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003	1	E200.8	09/04/08 04:35/eli-c
Arsenic	ND	mg/L		0.001	1	E200.8	09/04/08 04:35/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 19:39/eli-c
Beryllium	ND	mg/L		0.001	1	E200.8	09/04/08 04:35/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/02/08 19:39/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	09/04/08 04:35/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 19:39/eli-c
Copper	ND	mg/L		0.01	2	E200.7	09/02/08 19:39/eli-c
Iron	0.10	mg/L		0.03	2	E200.7	09/02/08 19:39/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/04/08 04:35/eli-c
Manganese	0.07	mg/L		0.01	2	E200.7	09/02/08 19:39/eli-c
Mercury	ND	mg/L		0.001	1	E245.1	08/29/08 14:01/eli-b
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 19:39/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 19:39/eli-c
Selenium	ND	mg/L		0.001	1	E200.8	09/04/08 04:35/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/04/08 18:36/eli-c
Strontium	0.8	mg/L		0.1	2	E200.7	09/02/08 19:39/eli-c
Thallium	ND	mg/L		0.001	1	E200.8	09/04/08 04:35/eli-c
Uranium	ND	mg/L		0.0003	1	E200.8	09/04/08 04:35/eli-c
Zinc	0.01	mg/L		0.01	2	E200.7	09/02/08 19:39/eli-c
DATA QUALITY							
A/C Balance (± 5)	4.56	%			1	A1030 E	11/04/08 00:00/jmh
Anions	14.3	meq/L			1	A1030 E	11/04/08 00:00/jmh
Cations	15.7	meq/L			1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	978	mg/L			1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960				1	A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-007
 Client Sample ID: DewBurd GW694

Report Date: 11/14/08
 Collection Date: 08/20/08 15:45
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	202	mg/L		5		1	A2320 B	08/21/08 15:28/mb
Carbonate as CO3	ND	mg/L			5	1	A2320 B	08/21/08 15:28/mb
Bicarbonate as HCO3	246	mg/L		5		1	A2320 B	08/21/08 15:28/mb
Calcium	103	mg/L		0.5		2	E200.7	09/02/08 17:17/eli-c
Chloride	9	mg/L		1		1	E300.0	08/23/08 00:26/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	08/23/08 00:26/jmh
Magnesium	36.9	mg/L		0.5		2	E200.7	09/02/08 17:17/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	08/21/08 18:40/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/23/08 00:26/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/23/08 00:26/jmh
Potassium	13.4	mg/L		0.5		2	E200.7	09/02/08 17:17/eli-c
Silica	4.1	mg/L		0.5		2	E200.7	09/02/08 17:17/eli-c
Sodium	182	mg/L	D	2		2	E200.7	09/02/08 17:17/eli-c
Sulfate	540	mg/L	D	3		50	E300.0	08/23/08 00:10/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1570	umhos/cm		5.0		1	A2510 B	08/22/08 12:05/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	08/25/08 00:00/jmh
pH	7.81	s.u.		0.01		1	A4500-H B	08/22/08 14:12/tb
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.10		1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	990	mg/L		5		1	A2540 C	08/25/08 16:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/02/08 17:17/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/27/08 13:00/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/02/08 17:17/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/02/08 17:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/04/08 04:42/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/02/08 17:17/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/04/08 04:42/eli-c
Iron	ND	mg/L		0.03		2	E200.7	09/02/08 17:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/04/08 04:42/eli-c
Manganese	0.16	mg/L		0.01		2	E200.7	09/02/08 17:17/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/04/08 04:42/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/02/08 17:17/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/02/08 17:17/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	09/01/08 12:11/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/05/08 01:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/05/08 01:50/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08080332-007
Client Sample ID: DewBurd GW694

Report Date: 11/14/08
Collection Date: 08/20/08 15:45
Date Received: 08/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0005	mg/L		0.0003		1	E200.8	09/04/08 04:42/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/04/08 04:42/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 17:17/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:40/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:43/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	12.5	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	3.4	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	4.0	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	10.7	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	3.0	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	4.7	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	0.0	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	1.8	pCi/L				1	E903.0	09/21/08 04:42/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	09/21/08 04:42/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-7	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-007
 Client Sample ID: DewBurd GW694

Report Date: 11/14/08
 Collection Date: 08/20/08 15:45
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	401	pCi/L		100			1	D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	86.8	pCi/L					1	D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	09/04/08 04:48/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/28/08 18:42/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/02/08 19:43/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	09/04/08 04:48/eli-c
Boron	ND	mg/L		0.1			2	E200.7	09/02/08 19:43/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/04/08 04:48/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/02/08 19:43/eli-c
Copper	ND	mg/L		0.01			2	E200.7	09/02/08 19:43/eli-c
Iron	0.15	mg/L		0.03			2	E200.7	09/02/08 19:43/eli-c
Lead	ND	mg/L		0.001			1	E200.8	09/04/08 04:48/eli-c
Manganese	0.16	mg/L		0.01			2	E200.7	09/02/08 19:43/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	08/29/08 14:04/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	09/02/08 19:43/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/02/08 19:43/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	09/04/08 04:48/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/04/08 18:42/eli-c
Strontium	2.9	mg/L		0.1			2	E200.7	09/02/08 19:43/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	09/04/08 04:48/eli-c
Uranium	0.0005	mg/L		0.0003			1	E200.8	09/04/08 04:48/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	09/02/08 19:43/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.72	%					1	A1030 E	11/04/08 00:00/jmh
Anions	15.6	meq/L					1	A1030 E	11/04/08 00:00/jmh
Cations	16.4	meq/L					1	A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	1020	mg/L					1	A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	11/04/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-008
 Client Sample ID: DewBurd GW697

Report Date: 11/14/08
 Collection Date: 08/20/08 17:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	172	mg/L		5			1	A2320 B	08/21/08 15:31/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	08/21/08 15:31/mb
Bicarbonate as HCO3	210	mg/L		5			1	A2320 B	08/21/08 15:31/mb
Calcium	53.5	mg/L		0.5			2	E200.7	09/02/08 17:21/eli-c
Chloride	8	mg/L		1			1	E300.0	08/23/08 00:59/jmh
Fluoride	0.6	mg/L		0.1			1	E300.0	08/23/08 00:59/jmh
Magnesium	17.5	mg/L		0.5			2	E200.7	09/02/08 17:21/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	08/21/08 18:41/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	08/23/08 00:59/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	08/23/08 00:59/jmh
Potassium	8.6	mg/L		0.5			2	E200.7	09/02/08 17:21/eli-c
Silica	4.1	mg/L		0.5			2	E200.7	09/02/08 17:21/eli-c
Sodium	219	mg/L	D	2			2	E200.7	09/02/08 17:21/eli-c
Sulfate	452	mg/L	D	3			50	E300.0	08/23/08 00:42/jmh
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1330	umhos/cm		5.0			1	A2510 B	08/22/08 12:06/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	08/25/08 00:00/jmh
pH	8.03	s.u.		0.01			1	A4500-H B	08/22/08 14:13/tb
Sodium Adsorption Ratio (SAR)	6.7	unitless		0.10			1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	840	mg/L		5			1	A2540 C	08/25/08 16:06/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	09/02/08 17:21/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/27/08 13:05/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/02/08 17:21/eli-c
Boron	ND	mg/L		0.1			2	E200.7	09/02/08 17:21/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	09/04/08 04:55/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/02/08 17:21/eli-c
Copper	ND	mg/L		0.01			1	E200.8	09/04/08 04:55/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	09/02/08 17:21/eli-c
Lead	ND	mg/L		0.001			1	E200.8	09/04/08 04:55/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	09/02/08 17:21/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	09/04/08 04:55/eli-c
Molybdenum	ND	mg/L		0.1			2	E200.7	09/02/08 17:21/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/02/08 17:21/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	09/01/08 12:13/eli-c
Silver	ND	mg/L		0.005			1	E200.8	09/05/08 01:57/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	09/05/08 01:57/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-008
 Client Sample ID: DewBurd GW697

Report Date: 11/14/08
 Collection Date: 08/20/08 17:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/04/08 04:55/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/04/08 04:55/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 17:21/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:45/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5.3	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	3.5	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	8.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	3.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	-2	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	1.2	pCi/L				1	E903.0	09/21/08 06:13/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/21/08 06:13/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	850	pCi/L		20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-10	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.4	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 17:18/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-008
 Client Sample ID: DewBurd GW697

Report Date: 11/14/08
 Collection Date: 08/20/08 17:10
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.0	pCi/L	U	0.2		E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.2	pCi/L				E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	367	pCi/L		100		D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	85.4	pCi/L				D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		E200.8	09/04/08 05:02/eli-c
Arsenic	ND	mg/L		0.001		E200.8	10/28/08 18:47/eli-c
Barium	ND	mg/L		0.1		E200.7	09/02/08 19:47/eli-c
Beryllium	ND	mg/L		0.001		E200.8	09/04/08 05:02/eli-c
Boron	ND	mg/L		0.1		E200.7	09/02/08 19:47/eli-c
Cadmium	ND	mg/L		0.005		E200.8	09/04/08 05:02/eli-c
Chromium	ND	mg/L		0.05		E200.7	09/02/08 19:47/eli-c
Copper	ND	mg/L		0.01		E200.7	09/02/08 19:47/eli-c
Iron	0.07	mg/L		0.03		E200.7	09/02/08 19:47/eli-c
Lead	ND	mg/L		0.001		E200.8	09/04/08 05:02/eli-c
Manganese	0.06	mg/L		0.01		E200.7	09/02/08 19:47/eli-c
Mercury	ND	mg/L		0.001		E245.1	08/29/08 14:06/eli-b
Molybdenum	ND	mg/L		0.1		E200.7	09/02/08 19:47/eli-c
Nickel	ND	mg/L		0.05		E200.7	09/02/08 19:47/eli-c
Selenium	ND	mg/L		0.001		E200.8	09/04/08 05:02/eli-c
Silver	ND	mg/L		0.005		E200.8	09/04/08 18:49/eli-c
Strontium	1.2	mg/L		0.1		E200.7	09/02/08 19:47/eli-c
Thallium	ND	mg/L		0.001		E200.8	09/04/08 05:02/eli-c
Uranium	ND	mg/L		0.0003		E200.8	09/04/08 05:02/eli-c
Zinc	ND	mg/L		0.01		E200.7	09/02/08 19:47/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.84	%				A1030 E	11/04/08 00:00/jmh
Anions	13.1	meq/L				A1030 E	11/04/08 00:00/jmh
Cations	13.9	meq/L				A1030 E	11/04/08 00:00/jmh
Solids, Total Dissolved Calculated	874	mg/L				A1030 E	11/04/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960					A1030 E	11/04/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/14/08
 Collection Date: 08/20/08 17:25
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
MAJOR IONS							
Alkalinity, Total as CaCO3	ND	mg/L		5	1	A2320 B	08/21/08 15:33/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	08/21/08 15:33/mb
Bicarbonate as HCO3	ND	mg/L		5	1	A2320 B	08/21/08 15:33/mb
Calcium	ND	mg/L		0.5	2	E200.7	09/02/08 17:25/eli-c
Chloride	ND	mg/L		1	1	E300.0	08/23/08 01:48/jmh
Fluoride	0.1	mg/L		0.1	1	E300.0	08/23/08 01:48/jmh
Magnesium	ND	mg/L		0.5	2	E200.7	09/02/08 17:25/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1	1	A4500-NH3 G	08/21/08 18:42/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	08/23/08 01:48/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	08/23/08 01:48/jmh
Potassium	ND	mg/L		0.5	2	E200.7	09/02/08 17:25/eli-c
Silica	ND	mg/L		0.5	2	E200.7	09/02/08 17:25/eli-c
Sodium	ND	mg/L	D	2	2	E200.7	09/02/08 17:25/eli-c
Sulfate	1	mg/L		1	1	E300.0	08/23/08 01:48/jmh
PHYSICAL PROPERTIES							
Conductivity @ 25 C	5.2	umhos/cm		5.0	1	A2510 B	08/22/08 12:07/tb
Oxidation-Reduction Potential	370	mV			1	A2580 B	08/25/08 00:00/jmh
pH	5.39	s.u.		0.01	1	A4500-H B	08/22/08 14:22/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10	1	Calculation	11/04/08 09:20/ADM
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5	1	A2540 C	08/25/08 16:07/mb
- SAR calculations may not be appropriate for near blank results.							
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	2	E200.7	09/02/08 17:25/eli-c
Arsenic	ND	mg/L		0.001	1	E200.8	09/04/08 05:09/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/02/08 17:25/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/02/08 17:25/eli-c
Cadmium	ND	mg/L		0.005	1	E200.8	09/04/08 05:09/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/02/08 17:25/eli-c
Copper	ND	mg/L		0.01	1	E200.8	09/04/08 05:09/eli-c
Iron	ND	mg/L		0.03	2	E200.7	09/02/08 17:25/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/04/08 05:09/eli-c
Manganese	ND	mg/L		0.01	2	E200.7	09/02/08 17:25/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	09/04/08 05:09/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	09/02/08 17:25/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/02/08 17:25/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	09/01/08 12:15/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/05/08 02:04/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/14/08
 Collection Date: 08/20/08 17:25
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	09/05/08 02:04/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	09/04/08 05:09/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/04/08 05:09/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/02/08 17:25/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/11/08 00:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/08 16:47/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	09/01/08 11:59/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	0.1	pCi/L	U			1	E900.0	09/25/08 02:03/eli-c
Gross Alpha precision (±)	0.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Alpha MDC	0.9	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta	-4	pCi/L	U			1	E900.0	09/25/08 02:03/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Gross Beta MDC	2.6	pCi/L				1	E900.0	09/25/08 02:03/eli-c
Lead 210	-0.2	pCi/L	U			1	E909.0M	09/04/08 07:39/eli-c
Lead 210 precision (±)	6.4	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Lead 210 MDC	10.7	pCi/L				1	E909.0M	09/04/08 07:39/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	09/03/08 19:15/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	09/03/08 19:15/eli-c
Radium 226	0.02	pCi/L	U			1	E903.0	09/21/08 07:43/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/21/08 07:43/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/21/08 12:59/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	09/21/08 12:59/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1	08/29/08 12:32/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	08/29/08 12:32/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-8	pCi/L	U			1	E909.0M	09/12/08 10:37/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Lead 210 MDC	17.8	pCi/L				1	E909.0M	09/12/08 10:37/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	09/15/08 14:35/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	09/15/08 14:35/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	09/17/08 17:18/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/17/08 17:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08080332-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/14/08
 Collection Date: 08/20/08 17:25
 Date Received: 08/21/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 MDC	0.5	pCi/L				1 E903.0	09/17/08 17:18/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1 E907.0	09/29/08 13:22/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	09/29/08 13:22/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	192	pCi/L		100		1 D5072-92	08/25/08 17:46/eli-c
Radon 222 precision (±)	82.9	pCi/L				1 D5072-92	08/25/08 17:46/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	09/04/08 05:16/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	09/04/08 05:16/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/02/08 19:51/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	09/04/08 05:16/eli-c
Boron	ND	mg/L		0.1		2 E200.7	09/02/08 19:51/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	09/04/08 05:16/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/02/08 19:51/eli-c
Copper	ND	mg/L		0.01		2 E200.7	09/02/08 19:51/eli-c
Iron	ND	mg/L		0.03		2 E200.7	09/02/08 19:51/eli-c
Lead	ND	mg/L		0.001		1 E200.8	09/04/08 05:16/eli-c
Manganese	ND	mg/L		0.01		2 E200.7	09/02/08 19:51/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	08/29/08 14:09/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	09/02/08 19:51/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/02/08 19:51/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	09/04/08 05:16/eli-c
Silver	ND	mg/L		0.005		1 E200.8	09/04/08 18:56/eli-c
Strontium	ND	mg/L		0.1		2 E200.7	09/02/08 19:51/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	09/04/08 05:16/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	09/04/08 05:16/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/02/08 19:51/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080821A-ALK-SEL-W		
Sample ID: R08080332-002AMS	Sample Matrix Spike				Run: PH_COND1-R_080821A			08/21/08 14:51	
Alkalinity, Total as CaCO3	262	mg/L	5.0	96	80	120			
Sample ID: R08080332-002AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080821A			08/21/08 14:53	
Alkalinity, Total as CaCO3	264	mg/L	5.0	98	80	120	0.8	10	
Method: A2510 B							Batch: 080822_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080822	Laboratory Control Sample				Run: BAL-7-R_080822A			08/22/08 11:38	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_080822	Laboratory Control Sample				Run: BAL-7-R_080822A			08/22/08 11:40	
Conductivity @ 25 C	162	umhos/cm	5.0	108	90	110			
Sample ID: LCS2-1_080822	Laboratory Control Sample				Run: BAL-7-R_080822A			08/22/08 11:41	
Conductivity @ 25 C	5010	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_080822	Method Blank				Run: BAL-7-R_080822A			08/22/08 11:42	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08080332-002ADUP	Sample Duplicate				Run: BAL-7-R_080822A			08/22/08 11:59	
Conductivity @ 25 C	3060	umhos/cm	5.0				4.7	10	
Method: A2540 C							Batch: 080825A-SLDS-TDS-W		
Sample ID: LCS1_080825A	Laboratory Control Sample				Run: BAL-4-R_080825B			08/25/08 15:44	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	103	90	110			
Sample ID: MBLK1_080825A	Method Blank				Run: BAL-4-R_080825B			08/25/08 15:46	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08080332-005AMS	Sample Matrix Spike				Run: BAL-4-R_080825B			08/25/08 16:04	
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	112	80	120			
Sample ID: R08080332-005AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080825B			08/25/08 16:05	
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	111	80	120	0.2	10	
Method: A2580 B							Batch: 080825-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_080825A			08/25/08 00:00	
Oxidation-Reduction Potential	470	mV		98	95	105			
Sample ID: R08080332-005F	Sample Duplicate				Run: PH_COND1-R_080825A			08/25/08 00:00	
Oxidation-Reduction Potential	210	mV					0.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-080901A		
Sample ID: MBLK	Method Blank								
Selenium	0.0008	mg/L	6E-05						Run: SUB-C106784 09/01/08 11:25
Sample ID: C08081048-003AMS	Sample Matrix Spike								
Selenium	0.071	mg/L	0.0010	81	85	115			Run: SUB-C106784 09/01/08 11:46 S
Sample ID: C08081048-003AMSD	Sample Matrix Spike Duplicate								
Selenium	0.073	mg/L	0.0010	86	85	115	3.5	15	Run: SUB-C106784 09/01/08 11:48
Sample ID: 288-92-2	Laboratory Control Sample								
Selenium	0.050	mg/L	0.0010	99	90	110			Run: SUB-C106784 09/01/08 11:50
Sample ID: R08080332-009E	Sample Matrix Spike								
Selenium	0.042	mg/L	0.0010	84	85	115			Run: SUB-C106784 09/01/08 12:17 S
Sample ID: R08080332-009E	Sample Matrix Spike Duplicate								
Selenium	0.044	mg/L	0.0010	88	85	115	4.5	15	Run: SUB-C106784 09/01/08 12:19
Method: A3114 B							Batch: C_SEIV3114-080831A		
Sample ID: MBLK	Method Blank								
Selenium-IV	0.0005	mg/L	6E-05						Run: SUB-C106776 08/31/08 15:53
Sample ID: C08081048-003AMS	Sample Matrix Spike								
Selenium-IV	0.052	mg/L	0.0010	87	85	115			Run: SUB-C106776 08/31/08 16:12
Sample ID: C08081048-003AMSD	Sample Matrix Spike Duplicate								
Selenium-IV	0.056	mg/L	0.0010	96	85	115	7.7	10	Run: SUB-C106776 08/31/08 16:20
Sample ID: 288-92-2	Laboratory Control Sample								
Selenium-IV	0.050	mg/L	0.0010	100	90	110			Run: SUB-C106776 08/31/08 16:22
Sample ID: R08080332-009E	Sample Matrix Spike								
Selenium-IV	0.045	mg/L	0.0010	89	85	115			Run: SUB-C106776 08/31/08 16:49
Sample ID: R08080332-009E	Sample Matrix Spike Duplicate								
Selenium-IV	0.046	mg/L	0.0010	92	85	115	2.5	10	Run: SUB-C106776 08/31/08 16:52
Method: A4500-H B							Batch: 080822_1_PH-W		
Sample ID: LCS_pH-1_080822	Laboratory Control Sample								
pH	6.87	s.u.	0.010	100	98.55	101.45			Run: BAL-7-R_080822B 08/22/08 13:46
Sample ID: R08080332-003ADUP	Sample Duplicate								
pH	7.83	s.u.	0.010				0.1	1.25	Run: BAL-7-R_080822B 08/22/08 14:07
Sample ID: R08080332-009ADUP	Sample Duplicate								
pH	5.37	s.u.	0.010				0.4	1.25	Run: BAL-7-R_080822B 08/22/08 14:23

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-08-21_2_NH3_01		
Sample ID: MBLK-2	Method Blank						Run: TECHAA2-R_080821A	08/21/08 14:35	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank						Run: TECHAA2-R_080821A	08/21/08 14:36	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank						Run: TECHAA2-R_080821A	08/21/08 14:37	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	101	90	110			
Sample ID: R08080332-003BMS	Sample Matrix Spike						Run: TECHAA2-R_080821A	08/21/08 18:34	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	93	80	120			
Sample ID: R08080332-003BMSD	Sample Matrix Spike Duplicate						Run: TECHAA2-R_080821A	08/21/08 18:35	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	92	80	120	0.8	10	
Method: D5072-92							Batch: C_R106600		
Sample ID: MB-R106600	Method Blank						Run: SUB-C106600	08/25/08 17:46	
Radon 222	40	pCi/L							U
Sample ID: LCS-R106600	Laboratory Control Sample						Run: SUB-C106600	08/25/08 17:46	
Radon 222	300	pCi/L	100	85	70	130			
Sample ID: R08080332-003G	Sample Duplicate						Run: SUB-C106600	08/25/08 17:46	
Radon 222	1460	pCi/L	100				6.4	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19595		
Sample ID: MB-19595	Method Blank			Run: SUB-C106856			09/03/08 02:17		
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	ND	mg/L	0.001						
Sample ID: LCS3-19595	Laboratory Control Sample			Run: SUB-C106856			09/03/08 02:21		
Barium	0.509	mg/L	0.10	102	85	115			
Boron	0.520	mg/L	0.10	104	85	115			
Chromium	0.520	mg/L	0.050	104	85	115			
Copper	0.518	mg/L	0.010	104	85	115			
Iron	2.75	mg/L	0.030	110	85	115			
Manganese	2.58	mg/L	0.010	103	85	115			
Molybdenum	0.508	mg/L	0.10	102	85	115			
Nickel	0.523	mg/L	0.050	105	85	115			
Strontium	0.487	mg/L	0.10	97	85	115			
Zinc	0.522	mg/L	0.010	104	85	115			
Sample ID: C08080990-003CMS3	Sample Matrix Spike			Run: SUB-C106856			09/03/08 02:41		
Barium	0.678	mg/L	0.10	100	70	130			
Boron	0.608	mg/L	0.10	105	70	130			
Chromium	0.524	mg/L	0.050	105	70	130			
Copper	0.522	mg/L	0.010	104	70	130			
Iron	4.25	mg/L	0.030	83	70	130			
Manganese	2.61	mg/L	0.010	102	70	130			
Molybdenum	0.520	mg/L	0.10	104	70	130			
Nickel	0.520	mg/L	0.050	104	70	130			
Strontium	0.968	mg/L	0.10	100	70	130			
Zinc	0.531	mg/L	0.010	102	70	130			
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate			Run: SUB-C106856			09/03/08 02:45		
Barium	0.702	mg/L	0.10	105	70	130	3.5	20	
Boron	0.625	mg/L	0.10	108	70	130	2.8	20	
Chromium	0.531	mg/L	0.050	106	70	130	1.3	20	
Copper	0.530	mg/L	0.010	106	70	130	1.5	20	
Iron	4.47	mg/L	0.030	92	70	130	5.2	20	
Manganese	2.65	mg/L	0.010	104	70	130	1.6	20	
Molybdenum	0.532	mg/L	0.10	106	70	130	2.3	20	
Nickel	0.523	mg/L	0.050	105	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_19595
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate					Run: SUB-C106856			09/03/08 02:45
Strontium	0.962	mg/L	0.10	98	70	130	0.6	20	
Zinc	0.546	mg/L	0.010	105	70	130	2.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R106856		
Sample ID: MB-080902A	Method Blank		Run: SUB-C106856			09/02/08 14:38			
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Cadmium	ND	mg/L	0.0008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.005						
Iron	0.005	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Strontium	ND	mg/L	0.0002						
Vanadium	0.03	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080902A	Laboratory Fortified Blank		Run: SUB-C106856			09/02/08 14:42			
Silica	0.38	mg/L	0.10	96	85	125			
Aluminum	1.00	mg/L	0.10	100	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	0.96	mg/L	0.10	96	85	125			
Cadmium	1.0	mg/L	0.010	101	85	125			
Calcium	54	mg/L	0.50	107	85	125			
Chromium	1.0	mg/L	0.050	103	85	125			
Copper	1.0	mg/L	0.010	103	85	125			
Iron	1.1	mg/L	0.030	106	85	125			
Magnesium	53	mg/L	0.50	107	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	1.00	mg/L	0.10	100	85	125			
Nickel	1.0	mg/L	0.050	102	85	125			
Potassium	45	mg/L	0.50	91	85	125			
Sodium	50	mg/L	0.77	100	85	125			
Strontium	1.0	mg/L	0.10	102	85	125			
Vanadium	1.1	mg/L	0.10	109	85	125			
Zinc	1.0	mg/L	0.010	103	85	125			
Sample ID: C08081029-002CMS2	Sample Matrix Spike		Run: SUB-C106856			09/02/08 17:49			
Aluminum	2.06	mg/L	0.10	102	70	130			
Barium	2.10	mg/L	0.10	104	70	130			
Boron	2.27	mg/L	0.10	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R106856		
Sample ID: C08081029-002CMS2	Sample Matrix Spike			Run: SUB-C106856			09/02/08 17:49		
Cadmium	2.09	mg/L	0.010	104	70	130			
Chromium	2.11	mg/L	0.050	106	70	130			
Copper	2.10	mg/L	0.010	105	70	130			
Iron	24.2	mg/L	0.030		70	130			A
Manganese	3.64	mg/L	0.010	101	70	130			
Molybdenum	2.05	mg/L	0.10	102	70	130			
Nickel	2.07	mg/L	0.050	104	70	130			
Strontium	9.22	mg/L	0.10	98	70	130			
Vanadium	2.03	mg/L	0.10	102	70	130			
Zinc	2.11	mg/L	0.010	105	70	130			
Calcium	580	mg/L	1.0		70	130			A
Magnesium	252	mg/L	1.0	105	70	130			
Potassium	114	mg/L	1.0	93	70	130			
Silica	2.77	mg/L	0.10	67	70	130			S
Sodium	278	mg/L	1.5	106	70	130			
Sample ID: C08081029-002CMSD2	Sample Matrix Spike Duplicate			Run: SUB-C106856			09/02/08 17:53		
Aluminum	2.05	mg/L	0.10	101	70	130	0.7	20	
Barium	2.09	mg/L	0.10	104	70	130	0.4	20	
Boron	2.27	mg/L	0.10	105	70	130	0	20	
Cadmium	2.02	mg/L	0.010	101	70	130	3.1	20	
Chromium	2.10	mg/L	0.050	105	70	130	0.7	20	
Copper	2.08	mg/L	0.010	104	70	130	0.9	20	
Iron	23.6	mg/L	0.030		70	130	2.3	20	A
Manganese	3.57	mg/L	0.010	98	70	130	1.8	20	
Molybdenum	2.07	mg/L	0.10	103	70	130	0.8	20	
Nickel	2.05	mg/L	0.050	102	70	130	1.2	20	
Strontium	9.00	mg/L	0.10	87	70	130	2.4	20	
Vanadium	2.03	mg/L	0.10	101	70	130	0.2	20	
Zinc	2.11	mg/L	0.010	105	70	130	0	20	
Calcium	569	mg/L	1.0		70	130	2	20	A
Magnesium	247	mg/L	1.0	101	70	130	1.7	20	
Potassium	113	mg/L	1.0	91	70	130	1.1	20	
Silica	2.80	mg/L	0.10	71	70	130	1	20	
Sodium	278	mg/L	1.5	106	70	130	0	20	
Sample ID: R08080332-001C	Sample Matrix Spike			Run: SUB-C106856			09/02/08 16:00		
Aluminum	2.05	mg/L	0.10	102	70	130			
Barium	2.03	mg/L	0.10	101	70	130			
Boron	1.97	mg/L	0.10	98	70	130			
Cadmium	2.04	mg/L	0.010	102	70	130			
Chromium	2.06	mg/L	0.050	103	70	130			
Copper	2.05	mg/L	0.010	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R106856		
Sample ID: R08080332-001C	Sample Matrix Spike			Run: SUB-C106856			09/02/08 16:00		
Iron	2.14	mg/L	0.030	105	70	130			
Manganese	2.10	mg/L	0.010	103	70	130			
Molybdenum	1.98	mg/L	0.10	99	70	130			
Nickel	2.05	mg/L	0.050	103	70	130			
Strontium	3.22	mg/L	0.10	100	70	130			
Vanadium	2.17	mg/L	0.10	109	70	130			
Zinc	2.08	mg/L	0.010	104	70	130			
Calcium	157	mg/L	1.0	106	70	130			
Magnesium	129	mg/L	1.0	107	70	130			
Potassium	102	mg/L	1.0	90	70	130			
Silica	4.85	mg/L	0.10		70	130			A
Sodium	300	mg/L	1.5	104	70	130			
Silicon	2.27	mg/L	0.047	113	70	130			
Sample ID: R08080332-001C	Sample Matrix Spike Duplicate			Run: SUB-C106856			09/02/08 16:04		
Aluminum	2.09	mg/L	0.10	105	70	130	2.1	20	
Barium	2.05	mg/L	0.10	102	70	130	0.7	20	
Boron	2.02	mg/L	0.10	101	70	130	2.8	20	
Cadmium	2.03	mg/L	0.010	102	70	130	0.4	20	
Chromium	2.11	mg/L	0.050	105	70	130	2	20	
Copper	2.10	mg/L	0.010	105	70	130	2.4	20	
Iron	2.20	mg/L	0.030	108	70	130	2.8	20	
Manganese	2.13	mg/L	0.010	104	70	130	1.3	20	
Molybdenum	2.02	mg/L	0.10	101	70	130	1.9	20	
Nickel	2.07	mg/L	0.050	104	70	130	1	20	
Strontium	3.29	mg/L	0.10	104	70	130	2.4	20	
Vanadium	2.22	mg/L	0.10	111	70	130	2	20	
Zinc	2.11	mg/L	0.010	105	70	130	1.4	20	
Calcium	162	mg/L	1.0	110	70	130	2.8	20	
Magnesium	132	mg/L	1.0	110	70	130	2.5	20	
Potassium	101	mg/L	1.0	89	70	130	1.2	20	
Silica	4.93	mg/L	0.10		70	130	1.5	20	A
Sodium	294	mg/L	1.5	98	70	130	2.1	20	
Silicon	2.30	mg/L	0.047	115	70	130	1.5	20	
Method: E200.7_8							Batch: C_19720		
Sample ID: MB-19720	Method Blank			Run: SUB-C107379			09/10/08 23:44		
Uranium	2E-07	mg/L							
Sample ID: LCS1-19720	Laboratory Control Sample			Run: SUB-C107379			09/10/08 23:48		
Uranium	5.46E-05	mg/L	0.00030	103	80	120			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19595		
Sample ID: MB-19595	Method Blank			Run: SUB-C106973			09/03/08 22:42		
Antimony	ND	mg/L	0.0003						
Arsenic	0.007	mg/L							
Beryllium	ND	mg/L	0.0003						
Cadmium	ND	mg/L	4E-05						
Lead	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0003						
Silver	ND	mg/L	0.002						
Thallium	ND	mg/L	0.0001						
Uranium	ND	mg/L	5E-05						
Sample ID: LCS3-19595	Laboratory Control Sample			Run: SUB-C106973			09/03/08 22:48		
Antimony	0.543	mg/L	0.050	109	85	115			
Arsenic	0.535	mg/L	0.0010	106	85	115			
Beryllium	0.261	mg/L	0.010	104	85	115			
Cadmium	0.273	mg/L	0.010	109	85	115			
Lead	0.509	mg/L	0.050	102	85	115			
Selenium	0.528	mg/L	0.0032	106	85	115			
Silver	0.0495	mg/L	0.016	99	85	115			
Thallium	0.502	mg/L	0.10	100	85	115			
Uranium	0.498	mg/L	0.00048	100	85	115			
Sample ID: C08080990-003CMS3	Sample Matrix Spike			Run: SUB-C106973			09/04/08 00:44		
Antimony	0.521	mg/L	0.050	104	70	130			
Arsenic	0.519	mg/L	0.0010	101	70	130			
Beryllium	0.251	mg/L	0.010	100	70	130			
Cadmium	0.262	mg/L	0.010	105	70	130			
Lead	0.493	mg/L	0.050	98	70	130			
Selenium	0.506	mg/L	0.0032	101	70	130			
Silver	0.0475	mg/L	0.016	95	70	130			
Thallium	0.483	mg/L	0.10	97	70	130			
Uranium	0.486	mg/L	0.00048	96	70	130			
Sample ID: C08080990-003CMSD3	Sample Matrix Spike Duplicate			Run: SUB-C106973			09/04/08 00:51		
Antimony	0.516	mg/L	0.050	103	70	130	0.8	20	
Arsenic	0.552	mg/L	0.0010	108	70	130	6.1	20	
Beryllium	0.251	mg/L	0.010	101	70	130	0.3	20	
Cadmium	0.260	mg/L	0.010	104	70	130	0.9	20	
Lead	0.485	mg/L	0.050	96	70	130	1.7	20	
Selenium	0.553	mg/L	0.0032	111	70	130	8.9	20	
Silver	0.0490	mg/L	0.016	98	70	130	3.1	20	
Thallium	0.485	mg/L	0.10	97	70	130	0.2	20	
Uranium	0.479	mg/L	0.00048	95	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19595		
Sample ID: MB-19595	Method Blank				Run: SUB-C109482			10/18/08 14:16	
Arsenic	0.003	mg/L	5E-05						
Lead	ND	mg/L	5E-05						
Selenium	0.0007	mg/L	0.0002						
Uranium	ND	mg/L	3E-05						
Method: E200.8							Batch: C_19720		
Sample ID: C08081244-005CMS4	Post Digestion Spike				Run: SUB-C107379			09/11/08 02:12	
Uranium	0.0135	mg/L	0.00030	101	70	130			
Sample ID: C08081244-005CMSD4	Post Digestion Spike Duplicate				Run: SUB-C107379			09/11/08 02:16	
Uranium	0.0135	mg/L	0.00030	101	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R106973		
Sample ID: LRB	Method Blank		Run: SUB-C106973			09/03/08 13:38			
Antimony	0.0001	mg/L	4E-06						
Arsenic	ND	mg/L	4E-05						
Beryllium	ND	mg/L	4E-06						
Cadmium	ND	mg/L	3E-06						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Mercury	ND	mg/L	1E-05						
Selenium	ND	mg/L	0.0001						
Thallium	ND	mg/L	4E-06						
Uranium	3E-06	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C106973			09/03/08 13:45			
Antimony	0.0553	mg/L	0.0010	110	85	115			
Arsenic	0.0552	mg/L	0.0010	110	85	115			
Beryllium	0.0539	mg/L	0.0010	108	85	115			
Cadmium	0.0553	mg/L	0.0010	111	85	115			
Copper	0.0559	mg/L	0.0010	112	85	115			
Lead	0.0547	mg/L	0.0010	109	85	115			
Mercury	0.00540	mg/L	0.0010	108	85	115			
Selenium	0.0559	mg/L	0.0010	112	85	115			
Thallium	0.0518	mg/L	0.0010	104	85	115			
Uranium	0.0530	mg/L	0.00030	106	85	115			
Vanadium	0.0540	mg/L	0.0010	108	85	115			
Sample ID: R08080332-009D	Post Digestion Spike		Run: SUB-C106973			09/04/08 05:22			
Antimony	0.0539	mg/L	0.050	108	70	130			
Arsenic	0.0549	mg/L	0.0010	110	70	130			
Beryllium	0.0565	mg/L	0.010	113	70	130			
Cadmium	0.0545	mg/L	0.010	109	70	130			
Copper	0.0544	mg/L	0.010	109	70	130			
Lead	0.0515	mg/L	0.050	103	70	130			
Mercury	0.00532	mg/L	0.0010	106	70	130			
Selenium	0.0590	mg/L	0.0010	118	70	130			
Thallium	0.0508	mg/L	0.10	102	70	130			
Uranium	0.0467	mg/L	0.00030	93	70	130			
Vanadium	0.0528	mg/L	0.10	106	70	130			
Sample ID: R08080332-009D	Post Digestion Spike Duplicate		Run: SUB-C106973			09/04/08 05:57			
Antimony	0.0538	mg/L	0.050	108	70	130	0.1	20	
Arsenic	0.0544	mg/L	0.0010	109	70	130	0.9	20	
Beryllium	0.0582	mg/L	0.010	116	70	130	2.9	20	
Cadmium	0.0546	mg/L	0.010	109	70	130	0.3	20	
Copper	0.0549	mg/L	0.010	110	70	130	1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R106973		
Sample ID: R08080332-009D	Post Digestion Spike Duplicate			Run: SUB-C106973			09/04/08 05:57		
Lead	0.0516	mg/L	0.050	103	70	130	0.1	20	
Mercury	0.00537	mg/L	0.0010	107	70	130	0.9	20	
Selenium	0.0605	mg/L	0.0010	121	70	130	2.5	20	
Thallium	0.0507	mg/L	0.10	101	70	130	0	20	
Uranium	0.0467	mg/L	0.00030	93	70	130	0	20	
Vanadium	0.0535	mg/L	0.10	107	70	130	0	20	
Method: E200.8							Batch: C_R107055		
Sample ID: LRB	Method Blank			Run: SUB-C107055			09/04/08 14:04		
Silver	2E-05	mg/L	7E-06						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C107055			09/04/08 14:11		
Silver	0.0202	mg/L	0.0010	101	85	115			
Sample ID: R08080332-009D	Post Digestion Spike			Run: SUB-C107055			09/04/08 19:03		
Silver	0.0177	mg/L	0.010	89	70	130			
Thorium 232	0.0496	mg/L	0.0010	99	70	130			
Sample ID: R08080332-009D	Post Digestion Spike Duplicate			Run: SUB-C107055			09/04/08 19:10		
Silver	0.0169	mg/L	0.010	85	70	130	4.8	20	
Thorium 232	0.0504	mg/L	0.0010	101	70	130	1.7	20	
Sample ID: C08080940-001BMS4	Post Digestion Spike			Run: SUB-C107055			09/05/08 02:45		
Silver	0.0152	mg/L	0.010	76	70	130			
Thorium 232	0.0541	mg/L	0.0010	108	70	130			
Sample ID: C08080940-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C107055			09/05/08 02:52		
Silver	0.0176	mg/L	0.010	88	70	130	15	20	
Thorium 232	0.0540	mg/L	0.0010	108	70	130	0.2	20	
Sample ID: LRB	Method Blank			Run: SUB-C107055			09/04/08 14:04		
Thorium 232	ND	mg/L	9E-06						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C107055			09/04/08 14:11		
Thorium 232	0.0486	mg/L	0.0010	97	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R109913		
Sample ID: LRB	Method Blank								Run: SUB-C109913 10/27/08 12:28
Arsenic	ND	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank								Run: SUB-C109913 10/27/08 12:33
Arsenic	0.0513	mg/L	0.0010	103	85	115			
Sample ID: C08090704-001DMS4	Post Digestion Spike								Run: SUB-C109913 10/27/08 13:58
Arsenic	0.0525	mg/L	0.0010	101	70	130			
Sample ID: C08090704-001DMSD4	Post Digestion Spike Duplicate								Run: SUB-C109913 10/27/08 14:04
Arsenic	0.0521	mg/L	0.0010	100	70	130	0.7	20	
Method: E200.8							Batch: C_R109991		
Sample ID: LRB	Method Blank								Run: SUB-C109991 10/28/08 12:02
Arsenic	0.0001	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank								Run: SUB-C109991 10/28/08 12:08
Arsenic	0.0516	mg/L	0.0010	103	85	115			
Sample ID: C08100151-026BMS4	Post Digestion Spike								Run: SUB-C109991 10/28/08 19:35
Arsenic	0.502	mg/L	0.0010	100	70	130			
Sample ID: C08100151-026BMSD4	Post Digestion Spike Duplicate								Run: SUB-C109991 10/28/08 19:40
Arsenic	0.496	mg/L	0.0010	99	70	130	1.1	20	
Method: E245.1							Batch: B_34292		
Sample ID: MB-34292	Method Blank								Run: SUB-B116583 08/28/08 07:30
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-34292	Laboratory Fortified Blank								Run: SUB-B116583 08/28/08 07:35
Mercury	0.0019	mg/L	0.0010	94	85	115			
Sample ID: B08082232-005FMS	Sample Matrix Spike								Run: SUB-B116583 08/28/08 08:41
Mercury	0.0017	mg/L	0.0010	87	70	130			
Sample ID: B08082232-005FMSD	Sample Matrix Spike Duplicate								Run: SUB-B116583 08/28/08 08:44
Mercury	0.0020	mg/L	0.0010	99	70	130	12	30	
Sample ID: R08080295-006F	Sample Matrix Spike								Run: SUB-B116583 08/28/08 07:40
Mercury	0.0022	mg/L	0.0010	111	70	130			
Sample ID: R08080295-006F	Sample Matrix Spike Duplicate								Run: SUB-B116583 08/28/08 07:42
Mercury	0.0024	mg/L	0.0010	118	70	130	5.7	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_34345		
Sample ID: MB-34345	Method Blank					Run: SUB-B116687			08/29/08 13:08
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-34345	Laboratory Fortified Blank					Run: SUB-B116687			08/29/08 13:10
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: B08082181-001BMS	Sample Matrix Spike					Run: SUB-B116687			08/29/08 13:14
Mercury	0.0019	mg/L	0.00020	97	70	130			
Sample ID: B08082181-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-B116687			08/29/08 13:17
Mercury	0.0018	mg/L	0.00020	90	70	130	6.9	10	
Method: E245.1							Analytical Run: SUB-B116583		
Sample ID: QCS	Initial Calibration Verification Standard								08/28/08 07:20
Mercury	0.0020	mg/L	0.0010	98	90	110			
Method: E245.1							Analytical Run: SUB-B116687		
Sample ID: QCS	Initial Calibration Verification Standard								08/29/08 12:51
Mercury	0.0019	mg/L	0.0010	96	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36997		
Sample ID: LFB0808223153-3	Laboratory Fortified Blank			Run: DIONEX_080822A			08/22/08 18:41		
Chloride	4.87	mg/L	0.50	97	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.39	mg/L	0.10	96	90	110			
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0808223153-4	Laboratory Fortified Blank			Run: DIONEX_080822A			08/22/08 18:58		
Chloride	4.87	mg/L	0.50	97	90	110			
Fluoride	2.07	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.37	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.47	mg/L	0.10	99	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: R08080332-001AMS	Sample Matrix Spike			Run: DIONEX_080822A			08/22/08 19:31		
Chloride	252	mg/L	5.4	90	80	120			
Fluoride	103	mg/L	0.56	98	80	120			
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120			
Sulfate	1100	mg/L	3.4	90	80	120			
Sample ID: R08080332-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080822A			08/22/08 19:47		
Chloride	256	mg/L	5.4	91	80	120	1.7	10	
Fluoride	105	mg/L	0.56	99	80	120	1.6	10	
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120	1.3	10	
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120	1.5	10	
Sulfate	1110	mg/L	3.4	92	80	120	0.9	10	
Sample ID: R08080332-005AMS	Sample Matrix Spike			Run: DIONEX_080822A			08/22/08 22:48		
Chloride	256	mg/L	5.4	92	80	120			
Fluoride	105	mg/L	0.56	101	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sulfate	1170	mg/L	3.4	94	80	120			
Sample ID: R08080332-005AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080822A			08/22/08 23:04		
Chloride	256	mg/L	5.4	91	80	120	0.3	10	
Fluoride	105	mg/L	0.56	101	80	120	0	10	
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120	0.1	10	
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120	0.2	10	
Sulfate	1170	mg/L	3.4	93	80	120	0.6	10	
Sample ID: R08080332-009AMS	Sample Matrix Spike			Run: DIONEX_080822A			08/23/08 02:05		
Chloride	4.92	mg/L	0.50	91	80	120			
Fluoride	1.91	mg/L	0.10	90	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/14/08
Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R36997		
Sample ID: R08080332-009AMS	Sample Matrix Spike			Run: DIONEX_080822A			08/23/08 02:05		
Nitrogen, Nitrate as N	2.40	mg/L	0.10	96	80	120			
Nitrogen, Nitrite as N	2.49	mg/L	0.10	100	80	120			
Sulfate	14.7	mg/L	1.0	90	80	120			
Sample ID: R08080332-009AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080822A			08/23/08 02:21		
Chloride	4.91	mg/L	0.50	91	80	120	0.2	10	
Fluoride	1.90	mg/L	0.10	89	80	120	0.5	10	
Nitrogen, Nitrate as N	2.39	mg/L	0.10	96	80	120	0.4	10	
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	80	120	0.4	10	
Sulfate	14.7	mg/L	1.0	90	80	120	0.2	10	
Method: E900.0							Batch: C_GrAB-0526		
Sample ID: MB-GrAB-0526	Method Blank			Run: SUB-C108200			09/25/08 02:03		
Gross Alpha	-0.4	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0526	Laboratory Control Sample			Run: SUB-C108200			09/25/08 02:03		
Gross Alpha	140	pCi/L		102	70	130			
Sample ID: R08080332-009H	Sample Matrix Spike			Run: SUB-C108200			09/25/08 02:03		
Gross Alpha	120	pCi/L		90	70	130			
Sample ID: R08080332-009H	Sample Matrix Spike Duplicate			Run: SUB-C108200			09/25/08 02:03		
Gross Alpha	150	pCi/L		110	70	130	20	15.7	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: Cs137-GrAB-0526	Laboratory Control Sample			Run: SUB-C108200			09/25/08 02:03		
Gross Beta	93	pCi/L		101	70	130			
Sample ID: R08080332-009H	Sample Matrix Spike			Run: SUB-C108200			09/25/08 14:09		
Gross Beta	73	pCi/L		82	70	130			
Sample ID: R08080332-009H	Sample Matrix Spike Duplicate			Run: SUB-C108200			09/25/08 14:09		
Gross Beta	97	pCi/L		107	70	130	28	16.3	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R106893		
Sample ID: R08080332-007H	Sample Duplicate								08/29/08 12:32
Gross Gamma	ND	pCi/L					0	30	U
Sample ID: R08080332-009H	Sample Duplicate								08/29/08 12:32
Bismuth 214	110	pCi/L	20				38	30	R
Sample ID: MB-R106893	Method Blank								08/29/08 12:32
Gross Gamma	ND	pCi/L							U
Sample ID: LCS-R106893	Laboratory Control Sample								08/29/08 12:32
Cesium 137	39000	pCi/L	20	95	70	130			
Cobalt 60	49000	pCi/L	20	99	70	130			
Method: E903.0							Batch: C_19720		
Sample ID: C08080968-001FMS	Sample Matrix Spike								09/17/08 15:43
Radium 226	140	pCi/L		96	70	130			
Sample ID: C08080968-001FMSD	Sample Matrix Spike Duplicate								09/17/08 15:43
Radium 226	150	pCi/L		98	70	130	6.9	25.2	
Sample ID: LCS-19720	Laboratory Control Sample								09/17/08 18:56
Radium 226	74	pCi/L		96	70	130			
Sample ID: MB-19720	Method Blank								09/17/08 18:56
Radium 226	-0.4	pCi/L							U
Method: E903.0							Batch: C_RA226-3072		
Sample ID: C08081143-001EMS	Sample Matrix Spike								09/21/08 10:44
Radium 226	15	pCi/L		94	70	130			
Sample ID: C08081143-001EMSD	Sample Matrix Spike Duplicate								09/21/08 12:14
Radium 226	14	pCi/L		84	70	130	10	25.1	
Sample ID: MB-RA226-3072	Method Blank								09/21/08 22:47
Radium 226	-0.04	pCi/L							U
Sample ID: LCS-RA226-3072	Laboratory Control Sample								09/22/08 00:18
Radium 226	7.7	pCi/L		98	70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/14/08

Project: Edgemont

Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_R108747		
Sample ID: R08080332-001I	Sample Matrix Spike				Run: SUB-C108747			09/28/08 13:33	
Thorium 230	21.4	pCi/L	0.20	95	70	130			
Sample ID: R08080332-001I	Sample Matrix Spike Duplicate				Run: SUB-C108747			09/28/08 13:33	
Thorium 230	25.8	pCi/L	0.20	111	70	130	19	40.7	
Sample ID: LCS-19720	Laboratory Control Sample				Run: SUB-C108747			09/29/08 13:22	
Thorium 230	47.0	pCi/L	0.20	102	70	130			
Sample ID: MB-19720	Method Blank				Run: SUB-C108747			09/29/08 13:22	
Thorium 230	0.6	pCi/L							U
Method: E907.0							Batch: C_RA-TH-ISO-0634		
Sample ID: LCS-RA-TH-ISO-0634	Laboratory Control Sample				Run: SUB-C108243			09/21/08 12:59	
Thorium 230	5.53	pCi/L	0.20	91	70	130			
Sample ID: R08080332-004H	Sample Matrix Spike				Run: SUB-C108243			09/21/08 12:59	
Thorium 230	11.2	pCi/L	0.20	92	70	130			
Sample ID: R08080332-004H	Sample Matrix Spike Duplicate				Run: SUB-C108243			09/21/08 12:59	
Thorium 230	10.8	pCi/L	0.20	88	70	130	4.4	40.6	
Sample ID: MB-RA-TH-ISO-0634	Method Blank				Run: SUB-C108243			09/22/08 08:48	
Thorium 230	0.01	pCi/L							U
Method: E909.0M							Batch: C_19720		
Sample ID: R08080332-009I	Sample Matrix Spike				Run: SUB-C108784			09/12/08 10:37	
Lead 210	240	pCi/L		89	70	130			
Sample ID: R08080332-009I	Sample Matrix Spike Duplicate				Run: SUB-C108784			09/12/08 10:37	
Lead 210	300	pCi/L		111	70	130	23	30	
Sample ID: MB-R108784	Method Blank				Run: SUB-C108784			09/12/08 10:37	
Lead 210	-6	pCi/L							U
Sample ID: LCS-R108784	Laboratory Control Sample				Run: SUB-C108784			09/12/08 10:37	
Lead 210	100	pCi/L		92	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/14/08
 Work Order: R08080332

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R107511		
Sample ID: R08080332-005H	Sample Matrix Spike				Run: SUB-C107511			09/04/08 07:39	
Lead 210	410	pCi/L		70	70	130			
Sample ID: R08080332-005H	Sample Matrix Spike Duplicate				Run: SUB-C107511			09/04/08 07:39	
Lead 210	450	pCi/L		77	70	130	9.5	30	
Sample ID: MB-R107511	Method Blank				Run: SUB-C107511			09/04/08 07:39	
Lead 210	-3	pCi/L							U
Sample ID: LCS-R107511	Laboratory Control Sample				Run: SUB-C107511			09/04/08 07:39	
Lead 210	86	pCi/L		76	70	130			
Method: RMO-3008							Batch: C_19720		
Sample ID: C08081029-005IMS	Sample Matrix Spike				Run: SUB-C108077			09/15/08 14:35	
Polonium 210	36	pCi/L	1.0	83	70	130			
Sample ID: C08081029-005IMSD	Sample Matrix Spike Duplicate				Run: SUB-C108077			09/15/08 14:35	
Polonium 210	48	pCi/L	1.0	111	70	130	29	30	
Sample ID: LCS-R108077	Laboratory Control Sample				Run: SUB-C108077			09/15/08 14:35	
Polonium 210	81	pCi/L	1.0	95	70	130			
Sample ID: MB-R108077	Method Blank				Run: SUB-C108077			09/15/08 14:35	
Polonium 210	0.9	pCi/L							U
Method: RMO-3008							Batch: C_R107620		
Sample ID: C08081029-005HMS	Sample Matrix Spike				Run: SUB-C107620			09/03/08 19:15	
Polonium 210	79	pCi/L	1.0	93	70	130			
Sample ID: C08081029-005HMSD	Sample Matrix Spike Duplicate				Run: SUB-C107620			09/03/08 19:15	
Polonium 210	82	pCi/L	1.0	97	70	130	3.7	30	
Sample ID: LCS-R107620	Laboratory Control Sample				Run: SUB-C107620			09/03/08 19:15	
Polonium 210	44	pCi/L	1.0	102	70	130			
Sample ID: MB-R107620	Method Blank				Run: SUB-C107620			09/03/08 19:15	
Polonium 210	ND	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Project Name, PWS, Permit, Etc.

Power Fed DB

Contact Name: Cory Foreman

Phone/Fax: cforeman@respec.com

Sample Origin
State: SD

Email:

EPA/State Compliance:
Yes No
Sampler: (Please Print)
Eric Krantz

Report Mail Address:

Invoice Address:

Purchase Order:

Quote/Bottle Order:

Special Report/Formats - EII must be notified prior to sample submittal for the following:

- DW A2LA
- GSA EDD/EDT (Electronic Data)
- POTW/WWT Format: _____
- State: _____ LEVEL IV
- Other: _____ NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)

ANALYSIS REQUESTED
As per Quot

SEE ATTACHED
Normal Turnaround (TAT)

RUSH
Contact EII prior to RUSH sample submittal for charges and scheduling - See Instruction Page
Comments:

Shipped by: _____
Cooler Req: _____
Receipt Temp: 6.4 °C
On Ice: Yes No
Custody Seal: N I M
Signature Match: Y N

1	2	3	4	5	6	7	8	9	10
Dev Bud GW 688	Dev Bud GW 680	Dev Bud GW 622	Dev Bud GW 615	Dev Bud GW 695	Dev Bud GW 696	Dev Bud GW 694	Dev Bud GW 697	Dev Bud GW 697	Dev Bud GW 697
8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08	8/20/08
10:07	10:23	12:59	13:26	14:20	15:10	15:45	17:10	17:10	17:25
W	W	W	W	W	W	W	W	W	W
MATRIX									
Received by (print):	Received by (print):	Received by (print):	Received by (print):	Received by (print):	Received by (print):	Received by (print):	Received by (print):	Received by (print):	Received by (print):
Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz
Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:
8/20/08 17:25	8/20/08 17:25	8/20/08 17:25	8/20/08 17:25	8/20/08 17:25	8/20/08 17:25	8/20/08 17:25	8/20/08 17:25	8/20/08 17:25	8/20/08 17:25
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz
Lab Disposal:	Lab Disposal:	Lab Disposal:	Lab Disposal:	Lab Disposal:	Lab Disposal:	Lab Disposal:	Lab Disposal:	Lab Disposal:	Lab Disposal:
Return to Client:	Return to Client:	Return to Client:	Return to Client:	Return to Client:	Return to Client:	Return to Client:	Return to Client:	Return to Client:	Return to Client:
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz	Eric Krantz

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

November 20, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08090314 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 5 samples for RESPEC Inc on 9/23/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08090314-001	DewBurd GW680	09/22/08 11:18	09/23/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08090314-002	DewBurd GW680	09/22/08 11:22	09/23/08	Aqueous	Same As Above
R08090314-003	DewBurd GW698	09/22/08 13:05	09/23/08	Aqueous	Same As Above
R08090314-004	DewBurd GW622	09/22/08 16:00	09/23/08	Aqueous	Same As Above
R08090314-005	DewBurd GW615	09/22/08 16:30	09/23/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08090314

Date: 20-Nov-08

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08090975

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08090975



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-001
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:18
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	252	mg/L		5		1	A2320 B	09/24/08 09:03/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/24/08 09:03/mb
Bicarbonate as HCO3	307	mg/L		5		1	A2320 B	09/24/08 09:03/mb
Calcium	402	mg/L		0.5		2	E200.7	09/30/08 17:04/eli-c
Chloride	12	mg/L		1		1	E300.0	09/24/08 22:12/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/24/08 22:12/jmh
Magnesium	128	mg/L		0.5		2	E200.7	09/30/08 17:04/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	09/23/08 12:48/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/24/08 22:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/24/08 22:12/jmh
Potassium	19.4	mg/L		0.5		2	E200.7	09/30/08 17:04/eli-c
Sodium	144	mg/L		2		2	E200.7	09/30/08 17:04/eli-c
Sulfate	1400	mg/L	D	3		50	E300.0	09/24/08 21:55/jmh
Silica	8.7	mg/L		0.2		2	E200.7	09/30/08 17:04/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2440	umhos/cm		5.0		1	A2510 B	09/25/08 10:07/tb
Oxidation-Reduction Potential	110	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.24	s.u.		0.01		1	A4500-H B	09/25/08 11:08/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	11/12/08 08:56/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	09/23/08 15:43/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/30/08 17:04/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	09/30/08 19:04/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/30/08 17:04/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	09/30/08 17:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/30/08 19:04/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/30/08 17:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/30/08 19:04/eli-c
Iron	0.24	mg/L		0.03		2	E200.7	09/30/08 17:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/30/08 19:04/eli-c
Manganese	0.46	mg/L		0.01		2	E200.7	09/30/08 17:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/30/08 19:04/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/30/08 17:04/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/30/08 17:04/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 15:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/30/08 19:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/30/08 19:04/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-001
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:18
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0191	mg/L		0.0003		1	E200.8	09/30/08 19:04/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/30/08 17:04/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/30/08 17:04/eli-c
METALS - SUSPENDED								
Uranium	0.0003	mg/L		0.0003		1	E200.8	09/30/08 19:21/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:06/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5470	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha precision (±)	73.7	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha MDC	7.4	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta	2290	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta precision (±)	24.9	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta MDC	11.0	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Lead 210	14.3	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.6	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	10/01/08 14:38/eli-c
Polonium 210 precision (±)	0.89	pCi/L				1	RMO-3008	10/01/08 14:38/eli-c
Radium 226	1440	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Radium 226 precision (±)	8.2	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Thorium 230	ND	pCi/L	U	0.2		1	E907.0	10/20/08 15:17/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	10/20/08 15:17/eli-c
Gross Gamma	820	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	74	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.5	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.54	pCi/L	U			1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.56	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	5.1	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-001
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:18
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	72700	pCi/L		100			1	D5072-92	09/24/08 12:00/eli-c
Radon 222 precision (±)	305	pCi/L					1	D5072-92	09/24/08 12:00/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			10	E200.8	10/02/08 18:05/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	11/03/08 12:54/eli-c
Barium	ND	mg/L		0.1			2	E200.7	09/30/08 22:20/eli-c
Beryllium	ND	mg/L	D	0.002			10	E200.8	10/02/08 18:05/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	09/30/08 22:20/eli-c
Cadmium	ND	mg/L		0.005			2	E200.7	09/30/08 22:20/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	09/30/08 22:20/eli-c
Copper	ND	mg/L		0.01			2	E200.7	09/30/08 22:20/eli-c
Iron	0.33	mg/L		0.03			2	E200.7	09/30/08 22:20/eli-c
Lead	ND	mg/L		0.001			10	E200.8	10/02/08 18:05/eli-c
Manganese	0.46	mg/L		0.01			2	E200.7	09/30/08 22:20/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	09/29/08 10:23/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	09/30/08 22:20/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	09/30/08 22:20/eli-c
Selenium	ND	mg/L	D	0.005			10	E200.8	10/02/08 18:05/eli-c
Silver	ND	mg/L		0.005			10	E200.8	10/02/08 18:05/eli-c
Strontium	7.3	mg/L		0.1			2	E200.7	09/30/08 22:20/eli-c
Thallium	ND	mg/L		0.001			10	E200.8	10/02/08 18:05/eli-c
Uranium	0.0177	mg/L	D	0.0005			10	E200.8	10/02/08 18:05/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	09/30/08 22:20/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.94	%					1	A1030 E	11/13/08 00:00/ADM
Anions	34.6	meq/L					1	A1030 E	11/13/08 00:00/ADM
Cations	37.4	meq/L					1	A1030 E	11/13/08 00:00/ADM
Solids, Total Dissolved Calculated	2280	mg/L					1	A1030 E	11/13/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.00						1	A1030 E	11/13/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-002
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:22
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	252	mg/L		5		1	A2320 B	09/24/08 09:06/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/24/08 09:06/mb
Bicarbonate as HCO3	307	mg/L		5		1	A2320 B	09/24/08 09:06/mb
Calcium	396	mg/L		0.5		2	E200.7	09/30/08 17:08/eli-c
Chloride	12	mg/L		1		1	E300.0	09/24/08 22:44/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/24/08 22:44/jmh
Magnesium	128	mg/L		0.5		2	E200.7	09/30/08 17:08/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	09/23/08 12:49/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/24/08 22:44/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/24/08 22:44/jmh
Potassium	19.2	mg/L		0.5		2	E200.7	09/30/08 17:08/eli-c
Sodium	142	mg/L		2		2	E200.7	09/30/08 17:08/eli-c
Sulfate	1400	mg/L	D	3		50	E300.0	09/24/08 22:28/jmh
Silica	8.6	mg/L		0.2		2	E200.7	09/30/08 17:08/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2440	umhos/cm		5.0		1	A2510 B	09/25/08 10:09/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.25	s.u.		0.01		1	A4500-H B	09/25/08 11:10/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	11/12/08 08:56/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	09/23/08 15:43/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/30/08 17:08/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	09/30/08 19:11/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/30/08 17:08/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	09/30/08 17:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/30/08 19:11/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/30/08 17:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/30/08 19:11/eli-c
Iron	0.23	mg/L		0.03		2	E200.7	09/30/08 17:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/30/08 19:11/eli-c
Manganese	0.46	mg/L		0.01		2	E200.7	09/30/08 17:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/30/08 19:11/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/30/08 17:08/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/30/08 17:08/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 15:37/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/30/08 19:11/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/30/08 19:11/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-002
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:22
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0192	mg/L		0.0003		1	E200.8	09/30/08 19:11/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/30/08 17:08/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/30/08 17:08/eli-c
METALS - SUSPENDED								
Uranium	0.0004	mg/L		0.0003		1	E200.8	09/30/08 19:25/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:18/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5620	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha precision (±)	74.7	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha MDC	7.4	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta	2260	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta precision (±)	24.7	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta MDC	11.0	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Lead 210	15.7	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.6	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	10/01/08 14:38/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	10/01/08 14:38/eli-c
Radium 226	1420	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Radium 226 precision (±)	8.0	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Thorium 230	ND	pCi/L	U	0.2		1	E907.0	10/20/08 15:17/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	10/20/08 15:17/eli-c
Gross Gamma	890	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	75	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	2.7	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.93	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.73	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	5.9	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-002
 Client Sample ID: DewBurd GW680

Report Date: 11/20/08
 Collection Date: 09/22/08 11:22
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.5	pCi/L		0.2		1 E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	70400	pCi/L		100		1 D5072-92	09/24/08 12:00/eli-c
Radon 222 precision (±)	300	pCi/L				1 D5072-92	09/24/08 12:00/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		10 E200.8	10/02/08 18:12/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	11/03/08 13:01/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/30/08 22:24/eli-c
Beryllium	ND	mg/L	D	0.002		10 E200.8	10/02/08 18:12/eli-c
Boron	0.1	mg/L		0.1		2 E200.7	09/30/08 22:24/eli-c
Cadmium	ND	mg/L		0.005		2 E200.7	09/30/08 22:24/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/30/08 22:24/eli-c
Copper	ND	mg/L		0.01		2 E200.7	09/30/08 22:24/eli-c
Iron	0.34	mg/L		0.03		2 E200.7	09/30/08 22:24/eli-c
Lead	ND	mg/L		0.001		10 E200.8	10/02/08 18:12/eli-c
Manganese	0.46	mg/L		0.01		2 E200.7	09/30/08 22:24/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	09/29/08 10:30/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	09/30/08 22:24/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/30/08 22:24/eli-c
Selenium	ND	mg/L	D	0.005		10 E200.8	10/02/08 18:12/eli-c
Silver	ND	mg/L		0.005		10 E200.8	10/02/08 18:12/eli-c
Strontium	7.4	mg/L		0.1		2 E200.7	09/30/08 22:24/eli-c
Thallium	ND	mg/L		0.001		10 E200.8	10/02/08 18:12/eli-c
Uranium	0.0179	mg/L		0.0005		10 E200.8	10/02/08 18:12/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/30/08 22:24/eli-c
DATA QUALITY							
A/C Balance (± 5)	3.43	%				1 A1030 E	11/13/08 00:00/ADM
Anions	34.5	meq/L				1 A1030 E	11/13/08 00:00/ADM
Cations	37.0	meq/L				1 A1030 E	11/13/08 00:00/ADM
Solids, Total Dissolved Calculated	2270	mg/L				1 A1030 E	11/13/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.00					1 A1030 E	11/13/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-003
 Client Sample ID: DewBurd GW698

Report Date: 11/20/08
 Collection Date: 09/22/08 13:05
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	122	mg/L		5		1	A2320 B	09/24/08 09:09/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/24/08 09:09/mb
Bicarbonate as HCO3	149	mg/L		5		1	A2320 B	09/24/08 09:09/mb
Calcium	370	mg/L		0.5		2	E200.7	09/30/08 17:12/eli-c
Chloride	9	mg/L		1		1	E300.0	09/24/08 23:17/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/24/08 23:17/jmh
Magnesium	133	mg/L		0.5		2	E200.7	09/30/08 17:12/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	09/23/08 12:50/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/24/08 23:17/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/24/08 23:17/jmh
Potassium	14.4	mg/L		0.5		2	E200.7	09/30/08 17:12/eli-c
Sodium	83	mg/L		2		2	E200.7	09/30/08 17:12/eli-c
Sulfate	1470	mg/L	D	3		50	E300.0	09/24/08 23:01/jmh
Silica	11.5	mg/L		0.2		2	E200.7	09/30/08 17:12/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2300	umhos/cm		5.0		1	A2510 B	09/25/08 10:11/tb
Oxidation-Reduction Potential	-38.3	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.02	s.u.		0.01		1	A4500-H B	09/25/08 11:11/tb
Sodium Adsorption Ratio (SAR)	0.94	unitless		0.10		1	Calculation	11/12/08 08:56/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	09/23/08 15:44/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	09/30/08 17:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	09/30/08 19:18/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/30/08 17:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/30/08 17:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/30/08 19:18/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/30/08 17:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/30/08 19:18/eli-c
Iron	3.87	mg/L		0.03		2	E200.7	09/30/08 17:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/30/08 19:18/eli-c
Manganese	2.41	mg/L		0.01		2	E200.7	09/30/08 17:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/30/08 19:18/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	09/30/08 17:12/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/30/08 17:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 15:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/30/08 19:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/30/08 19:18/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-003
 Client Sample ID: DewBurd GW698

Report Date: 11/20/08
 Collection Date: 09/22/08 13:05
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.103	mg/L		0.0003		1	E200.8	09/30/08 19:18/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	09/30/08 17:12/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/30/08 17:12/eli-c
METALS - SUSPENDED								
Uranium	0.0006	mg/L		0.0003		1	E200.8	09/30/08 19:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:20/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	36.3	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha precision (±)	4.3	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Alpha MDC	3.1	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta	19.8	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta precision (±)	2.7	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Gross Beta MDC	4.0	pCi/L				1	E900.0	10/12/08 05:27/eli-c
Lead 210	2.2	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	10/01/08 14:38/eli-c
Polonium 210 precision (±)	0.55	pCi/L				1	RMO-3008	10/01/08 14:38/eli-c
Radium 226	410	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Radium 226 precision (±)	4.4	pCi/L				1	E903.0	10/14/08 11:05/eli-c
Thorium 230	ND	pCi/L	U	0.2		1	E907.0	10/20/08 15:17/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	10/20/08 15:17/eli-c
Gross Gamma	240	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	50	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.5	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.059	pCi/L	U			1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-003
 Client Sample ID: DewBurd GW698

Report Date: 11/20/08
 Collection Date: 09/22/08 13:05
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	29500	pCi/L		100		1	D5072-92	09/24/08 12:00/eli-c
Radon 222 precision (±)	196	pCi/L				1	D5072-92	09/24/08 12:00/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	10/02/08 18:19/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/03/08 13:35/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/30/08 22:28/eli-c
Beryllium	ND	mg/L	D	0.002		10	E200.8	10/02/08 18:19/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/30/08 22:28/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	09/30/08 22:28/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/30/08 22:28/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/30/08 22:28/eli-c
Iron	5.15	mg/L		0.03		2	E200.7	09/30/08 22:28/eli-c
Lead	ND	mg/L		0.001		10	E200.8	10/02/08 18:19/eli-c
Manganese	2.57	mg/L		0.01		2	E200.7	09/30/08 22:28/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	09/29/08 10:32/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/30/08 22:28/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/30/08 22:28/eli-c
Selenium	ND	mg/L	D	0.005		10	E200.8	10/02/08 18:19/eli-c
Silver	ND	mg/L		0.005		10	E200.8	10/02/08 18:19/eli-c
Strontium	4.9	mg/L		0.1		2	E200.7	09/30/08 22:28/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	10/02/08 18:19/eli-c
Uranium	0.102	mg/L		0.0005		10	E200.8	10/02/08 18:19/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/30/08 22:28/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.650	%				1	A1030 E	11/13/08 00:00/ADM
Anions	33.2	meq/L				1	A1030 E	11/13/08 00:00/ADM
Cations	33.7	meq/L				1	A1030 E	11/13/08 00:00/ADM
Solids, Total Dissolved Calculated	2180	mg/L				1	A1030 E	11/13/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.02					1	A1030 E	11/13/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-004
 Client Sample ID: DewBurd GW622

Report Date: 11/20/08
 Collection Date: 09/22/08 16:00
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	182	mg/L		5		1 A2320 B	09/24/08 09:10/mb
Carbonate as CO3	ND	mg/L		5		1 A2320 B	09/24/08 09:10/mb
Bicarbonate as HCO3	222	mg/L		5		1 A2320 B	09/24/08 09:10/mb
Calcium	91.9	mg/L		0.5		2 E200.7	09/30/08 17:16/eli-c
Chloride	10	mg/L		1		1 E300.0	09/25/08 00:56/jmh
Fluoride	0.5	mg/L		0.1		1 E300.0	09/25/08 00:56/jmh
Magnesium	31.8	mg/L		0.5		2 E200.7	09/30/08 17:16/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1 A4500-NH3 G	09/23/08 12:53/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1 E300.0	09/25/08 00:56/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1 E300.0	09/25/08 00:56/jmh
Potassium	10.3	mg/L		0.5		2 E200.7	09/30/08 17:16/eli-c
Sodium	180	mg/L		2		2 E200.7	09/30/08 17:16/eli-c
Sulfate	528	mg/L	D	3		50 E300.0	09/25/08 00:06/jmh
Silica	8.9	mg/L		0.2		2 E200.7	09/30/08 17:16/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1270	umhos/cm		5.0		1 A2510 B	09/25/08 10:12/tb
Oxidation-Reduction Potential	200	mV				1 A2580 B	09/25/08 00:00/jmh
pH	7.78	s.u.		0.01		1 A4500-H B	09/25/08 11:13/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10		1 Calculation	11/12/08 08:56/ADM
Solids, Total Dissolved TDS @ 180 C	910	mg/L		5		1 A2540 C	09/23/08 15:45/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2 E200.7	09/30/08 17:16/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	09/30/08 19:51/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/30/08 17:16/eli-c
Boron	ND	mg/L		0.1		2 E200.7	09/30/08 17:16/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	09/30/08 19:51/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/30/08 17:16/eli-c
Copper	ND	mg/L		0.01		1 E200.8	09/30/08 19:51/eli-c
Iron	0.03	mg/L		0.03		2 E200.7	09/30/08 17:16/eli-c
Lead	ND	mg/L		0.001		1 E200.8	09/30/08 19:51/eli-c
Manganese	0.19	mg/L		0.01		2 E200.7	09/30/08 17:16/eli-c
Mercury	ND	mg/L		0.001		1 E200.8	09/30/08 19:51/eli-c
Molybdenum	ND	mg/L		0.1		2 E200.7	09/30/08 17:16/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/30/08 17:16/eli-c
Selenium	ND	mg/L		0.001		1 A3114 B	10/02/08 15:50/eli-c
Silver	ND	mg/L		0.005		1 E200.8	09/30/08 19:51/eli-c
Thorium 232	ND	mg/L		0.005		1 E200.8	09/30/08 19:51/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-004
 Client Sample ID: DewBurd GW622

Report Date: 11/20/08
 Collection Date: 09/22/08 16:00
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Uranium	0.0055	mg/L		0.0003		1 E200.8	09/30/08 19:51/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	09/30/08 17:16/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/30/08 17:16/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/30/08 19:33/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	10/02/08 11:22/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1470	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Alpha precision (±)	37.3	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Alpha MDC	7.0	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Beta	678	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Beta precision (±)	14.6	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Beta MDC	11.0	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Lead 210	-1	pCi/L	U			1 E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1 RMO-3008	10/01/08 14:38/eli-c
Polonium 210 precision (±)	0.44	pCi/L				1 RMO-3008	10/01/08 14:38/eli-c
Radium 226	3.0	pCi/L				1 E903.0	10/14/08 11:05/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	10/14/08 11:05/eli-c
Thorium 230	ND	pCi/L	U	0.2		1 E907.0	10/20/08 15:17/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	10/20/08 15:17/eli-c
Gross Gamma	0.0	pCi/L				1 E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	0.2	pCi/L	U			1 E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.39	pCi/L	U			1 RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.47	pCi/L				1 RMO-3008	10/09/08 09:13/eli-c
Radium 226	-0.2	pCi/L	U			1 E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1 E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-004
 Client Sample ID: DewBurd GW622

Report Date: 11/20/08
 Collection Date: 09/22/08 16:00
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	992	pCi/L		100		1	D5072-92	09/24/08 12:00/eli-c
Radon 222 precision (±)	54.5	pCi/L				1	D5072-92	09/24/08 12:00/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	10/02/08 18:26/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/03/08 13:42/eli-c
Barium	ND	mg/L		0.1		2	E200.7	09/30/08 22:32/eli-c
Beryllium	ND	mg/L	D	0.002		10	E200.8	10/02/08 18:26/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/30/08 22:32/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	09/30/08 22:32/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	09/30/08 22:32/eli-c
Copper	ND	mg/L		0.01		2	E200.7	09/30/08 22:32/eli-c
Iron	1.18	mg/L		0.03		2	E200.7	09/30/08 22:32/eli-c
Lead	ND	mg/L		0.001		10	E200.8	10/02/08 18:26/eli-c
Manganese	0.19	mg/L		0.01		2	E200.7	09/30/08 22:32/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	09/29/08 10:35/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	09/30/08 22:32/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	09/30/08 22:32/eli-c
Selenium	ND	mg/L	D	0.005		10	E200.8	10/02/08 18:26/eli-c
Silver	ND	mg/L		0.005		10	E200.8	10/02/08 18:26/eli-c
Strontium	1.6	mg/L		0.1		2	E200.7	09/30/08 22:32/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	10/02/08 18:26/eli-c
Uranium	0.0050	mg/L		0.0005		10	E200.8	10/02/08 18:26/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	09/30/08 22:32/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.20	%				1	A1030 E	11/13/08 00:00/ADM
Anions	15.0	meq/L				1	A1030 E	11/13/08 00:00/ADM
Cations	15.3	meq/L				1	A1030 E	11/13/08 00:00/ADM
Solids, Total Dissolved Calculated	986	mg/L				1	A1030 E	11/13/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.920					1	A1030 E	11/13/08 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-005
 Client Sample ID: DewBurd GW615

Report Date: 11/20/08
 Collection Date: 09/22/08 16:30
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
MAJOR IONS							
Alkalinity, Total as CaCO3	138	mg/L		5	1	A2320 B	09/24/08 11:53/mb
Carbonate as CO3	ND	mg/L		5	1	A2320 B	09/24/08 11:53/mb
Bicarbonate as HCO3	168	mg/L		5	1	A2320 B	09/24/08 11:53/mb
Calcium	75.3	mg/L		0.5	2	E200.7	09/30/08 17:20/eli-c
Chloride	5	mg/L		1	1	E300.0	09/25/08 01:29/jmh
Fluoride	0.6	mg/L		0.1	1	E300.0	09/25/08 01:29/jmh
Magnesium	21.8	mg/L		0.5	2	E200.7	09/30/08 17:20/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1	1	A4500-NH3 G	09/23/08 12:57/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1	1	E300.0	09/25/08 01:29/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1	1	E300.0	09/25/08 01:29/jmh
Potassium	8.9	mg/L		0.5	2	E200.7	09/30/08 17:20/eli-c
Sodium	136	mg/L		2	2	E200.7	09/30/08 17:20/eli-c
Sulfate	421	mg/L	D	3	50	E300.0	09/25/08 01:12/jmh
Silica	9.1	mg/L		0.2	2	E200.7	09/30/08 17:20/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1010	umhos/cm		5.0	1	A2510 B	09/25/08 10:14/tb
Oxidation-Reduction Potential	240	mV			1	A2580 B	09/25/08 00:00/jmh
pH	7.49	s.u.		0.01	1	A4500-H B	09/25/08 11:15/tb
Sodium Adsorption Ratio (SAR)	3.5	unitless		0.10	1	Calculation	11/12/08 08:56/ADM
Solids, Total Dissolved TDS @ 180 C	670	mg/L		5	1	A2540 C	09/23/08 15:45/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1	2	E200.7	09/30/08 17:20/eli-c
Arsenic	0.020	mg/L		0.001	1	E200.8	09/30/08 19:58/eli-c
Barium	ND	mg/L		0.1	2	E200.7	09/30/08 17:20/eli-c
Boron	ND	mg/L		0.1	2	E200.7	09/30/08 17:20/eli-c
Cadmium	ND	mg/L		0.005	2	E200.7	09/30/08 17:20/eli-c
Chromium	ND	mg/L		0.05	2	E200.7	09/30/08 17:20/eli-c
Copper	ND	mg/L		0.01	1	E200.8	09/30/08 19:58/eli-c
Iron	0.95	mg/L		0.03	2	E200.7	09/30/08 17:20/eli-c
Lead	ND	mg/L		0.001	1	E200.8	09/30/08 19:58/eli-c
Manganese	0.07	mg/L		0.01	2	E200.7	09/30/08 17:20/eli-c
Mercury	ND	mg/L		0.001	1	E200.8	09/30/08 19:58/eli-c
Molybdenum	ND	mg/L		0.1	2	E200.7	09/30/08 17:20/eli-c
Nickel	ND	mg/L		0.05	2	E200.7	09/30/08 17:20/eli-c
Selenium	ND	mg/L		0.001	1	A3114 B	10/02/08 15:52/eli-c
Silver	ND	mg/L		0.005	1	E200.8	09/30/08 19:58/eli-c
Thorium 232	ND	mg/L		0.005	1	E200.8	09/30/08 19:58/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-005
 Client Sample ID: DewBurd GW615

Report Date: 11/20/08
 Collection Date: 09/22/08 16:30
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0026	mg/L		0.0003		1 E200.8	09/30/08 19:58/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	09/30/08 17:20/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/30/08 17:20/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/30/08 19:37/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	10/02/08 11:24/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	21.5	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Alpha precision (±)	3.1	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Alpha MDC	2.5	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Beta	9.9	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Beta precision (±)	2.3	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Gross Beta MDC	3.5	pCi/L				1 E900.0	10/12/08 05:28/eli-c
Lead 210	-1	pCi/L	U			1 E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1 RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1 RMO-3008	10/02/08 14:54/eli-c
Radium 226	2.0	pCi/L				1 E903.0	10/14/08 12:40/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	10/14/08 12:40/eli-c
Thorium 230	ND	pCi/L	U	0.2		1 E907.0	10/20/08 15:17/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	10/20/08 15:17/eli-c
Gross Gamma	0.0	pCi/L				1 E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.2	pCi/L	U			1 E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Polonium 210	-0.040	pCi/L	U			1 RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1 RMO-3008	10/09/08 09:13/eli-c
Radium 226	-0.06	pCi/L	U			1 E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1 E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090314-005
 Client Sample ID: DewBurd GW615

Report Date: 11/20/08
 Collection Date: 09/22/08 16:30
 Date Received: 09/23/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.7	pCi/L		0.2		1 E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	1500	pCi/L		100		1 D5072-92	09/24/08 12:00/eli-c
Radon 222 precision (±)	59.7	pCi/L				1 D5072-92	09/24/08 12:00/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	10/02/08 22:10/eli-c
Arsenic	0.022	mg/L		0.001		1 E200.8	11/03/08 13:48/eli-c
Barium	ND	mg/L		0.1		2 E200.7	09/30/08 22:36/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	10/02/08 22:10/eli-c
Boron	ND	mg/L		0.1		2 E200.7	09/30/08 22:36/eli-c
Cadmium	ND	mg/L		0.005		2 E200.7	09/30/08 22:36/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	09/30/08 22:36/eli-c
Copper	ND	mg/L		0.01		2 E200.7	09/30/08 22:36/eli-c
Iron	1.40	mg/L		0.03		2 E200.7	09/30/08 22:36/eli-c
Lead	ND	mg/L		0.001		1 E200.8	10/02/08 22:10/eli-c
Manganese	0.07	mg/L		0.01		2 E200.7	09/30/08 22:36/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	09/29/08 10:37/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	09/30/08 22:36/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	09/30/08 22:36/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	10/02/08 22:10/eli-c
Silver	ND	mg/L		0.005		1 E200.8	10/02/08 22:10/eli-c
Strontium	1.4	mg/L		0.1		2 E200.7	09/30/08 22:36/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	10/02/08 22:10/eli-c
Uranium	0.0023	mg/L		0.0003		1 E200.8	10/02/08 22:10/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	09/30/08 22:36/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.170	%				1 A1030 E	11/13/08 00:00/ADM
Anions	11.7	meq/L				1 A1030 E	11/13/08 00:00/ADM
Cations	11.7	meq/L				1 A1030 E	11/13/08 00:00/ADM
Solids, Total Dissolved Calculated	776	mg/L				1 A1030 E	11/13/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.860					1 A1030 E	11/13/08 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 080924A-ALK-SEL-W		
Sample ID: LCS1_080924A Alkalinity, Total as CaCO3	Laboratory Control Sample 984	mg/L	5.0	98	90	110			Run: PH_COND1-R_080924A 09/24/08 08:54
Sample ID: MBLK1_080924A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_080924A 09/24/08 08:58
Sample ID: R08090323-005AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 210	mg/L	5.0	106	80	120			Run: PH_COND1-R_080924A 09/24/08 12:16
Sample ID: R08090323-005AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 196	mg/L	5.0	92	80	120	6.9	10	Run: PH_COND1-R_080924A 09/24/08 12:20
Method: A2510 B							Batch: 080925_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080925 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080925A 09/25/08 10:00
Sample ID: LCS1-1_080925 Conductivity @ 25 C	Laboratory Control Sample 147	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_080925A 09/25/08 10:02
Sample ID: LCS2-1_080925 Conductivity @ 25 C	Laboratory Control Sample 4930	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080925A 09/25/08 10:04
Sample ID: MBLK-1_080925 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080925A 09/25/08 10:06
Method: A2540 C							Batch: 080923A-SLDS-TDS-W		
Sample ID: LCS1_080923A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 190	mg/L	5.0	97	90	110			Run: BAL-4-R_080924A 09/23/08 15:35
Sample ID: MBLK1_080923A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_080924A 09/23/08 15:36
Sample ID: R08090295-001BMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1600	mg/L	5.0	98	80	120			Run: BAL-4-R_080924A 09/23/08 15:41
Sample ID: R08090295-001BMSSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1600	mg/L	5.0	100	80	120	0.3	10	Run: BAL-4-R_080924A 09/23/08 15:42
Sample ID: R08090314-005AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 890	mg/L	5.0	112	80	120			Run: BAL-4-R_080924A 09/23/08 15:45
Sample ID: R08090314-005AMSSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 880	mg/L	5.0	106	80	120	1.4	10	Run: BAL-4-R_080924A 09/23/08 15:46

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 080925-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_080925A			09/25/08 00:00
Oxidation-Reduction Potential	480	mV		101	95	105			
Sample ID: R08090314-005F	Sample Duplicate					Run: PH_COND1-R_080925A			09/25/08 00:00
Oxidation-Reduction Potential	230	mV					1	10	
Method: A3114 B							Batch: C_SE3114-081002B		
Sample ID: MBLK	Method Blank					Run: SUB-C108588			10/02/08 10:59
Selenium-IV	ND	mg/L	0.0003						
Sample ID: 288-142-5	Laboratory Control Sample					Run: SUB-C108588			10/02/08 11:03
Selenium-IV	0.051	mg/L	0.0010	102	90	110			
Sample ID: R08090314-001E	Sample Matrix Spike Duplicate					Run: SUB-C108588			10/02/08 11:10
Selenium-IV	0.052	mg/L	0.0010	103	85	115	0.5	10	
Sample ID: R08090314-001E	Sample Matrix Spike					Run: SUB-C108588			10/02/08 11:15
Selenium-IV	0.052	mg/L	0.0010	103	85	115			
Sample ID: R08090356-006E	Sample Matrix Spike					Run: SUB-C108588			10/02/08 11:45
Selenium-IV	0.053	mg/L	0.0010	106	85	115			
Sample ID: R08090356-006E	Sample Matrix Spike Duplicate					Run: SUB-C108588			10/02/08 11:47
Selenium-IV	0.053	mg/L	0.0010	106	85	115	0.2	10	
Method: A3114 B							Batch: C_SE3114-081002D		
Sample ID: MBLK	Method Blank					Run: SUB-C108610			10/02/08 15:23
Selenium	ND	mg/L	0.0003						
Sample ID: 288-142-5	Laboratory Control Sample					Run: SUB-C108610			10/02/08 15:26
Selenium	0.052	mg/L	0.0010	103	90	110			
Sample ID: R08090314-001E	Sample Matrix Spike					Run: SUB-C108610			10/02/08 15:30
Selenium	0.054	mg/L	0.0010	108	85	115			
Sample ID: R08090314-001E	Sample Matrix Spike Duplicate					Run: SUB-C108610			10/02/08 15:32
Selenium	0.053	mg/L	0.0010	106	85	115	1.8	15	
Sample ID: R08090356-006E	Sample Matrix Spike					Run: SUB-C108610			10/02/08 16:16
Selenium	0.050	mg/L	0.0010	100	85	115			
Sample ID: R08090356-006E	Sample Matrix Spike Duplicate					Run: SUB-C108610			10/02/08 16:19
Selenium	0.050	mg/L	0.0010	100	85	115	0.7	15	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 080925_1_PH-W		
Sample ID: LCS_pH-1_080925	Laboratory Control Sample				Run: PH_COND2-R_080925B			09/25/08 11:06	
pH	6.80	s.u.	0.010	99	98.55	101.45			
Method: A4500-NH3 G							Batch: A2008-09-23_2_NH3_01		
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080923A			09/23/08 11:45	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080923A			09/23/08 11:46	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	100	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080923A			09/23/08 11:47	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	100	90	110			
Sample ID: R08090291-003BMS	Sample Matrix Spike				Run: TECHAA2-R_080923A			09/23/08 12:41	
Nitrogen, Ammonia as N	0.17	mg/L	0.10	70	80	120			S
Sample ID: R08090291-003BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080923A			09/23/08 12:42	
Nitrogen, Ammonia as N	0.16	mg/L	0.10	63	80	120	10	10	SR
Sample ID: R08090314-004BMS	Sample Matrix Spike				Run: TECHAA2-R_080923A			09/23/08 12:55	
Nitrogen, Ammonia as N	0.30	mg/L	0.10	122	80	120			S
Sample ID: R08090314-004BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080923A			09/23/08 12:56	
Nitrogen, Ammonia as N	0.32	mg/L	0.10	126	80	120	3.6	10	S
Method: D5072-92							Batch: C_R108590		
Sample ID: MB-R108590	Method Blank				Run: SUB-C108590			09/25/08 16:45	
Radon 222	20	pCi/L							U
Sample ID: LCS-R108590	Laboratory Control Sample				Run: SUB-C108590			09/25/08 16:45	
Radon 222	302	pCi/L	100	93	70	130			
Sample ID: R08090314-005G	Sample Duplicate				Run: SUB-C108590			09/24/08 12:00	
Radon 222	1340	pCi/L	100				12	30	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_19902		
Sample ID: MB-19902	Method Blank			Run: SUB-C108485			09/30/08 22:00		
Barium	ND	mg/L	0.006						
Boron	0.02	mg/L	0.01						
Cadmium	ND	mg/L	0.001						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Strontium	ND	mg/L	0.0004						
Zinc	ND	mg/L	0.001						
Sample ID: LCS3-19902	Laboratory Control Sample			Run: SUB-C108485			09/30/08 22:04		
Barium	0.508	mg/L	0.10	102	85	115			
Boron	0.516	mg/L	0.10	100	85	115			
Cadmium	0.257	mg/L	0.010	103	85	115			
Chromium	0.508	mg/L	0.050	102	85	115			
Copper	0.510	mg/L	0.010	102	85	115			
Iron	2.81	mg/L	0.030	112	85	115			
Manganese	2.58	mg/L	0.010	103	85	115			
Molybdenum	0.511	mg/L	0.10	102	85	115			
Nickel	0.508	mg/L	0.050	102	85	115			
Strontium	0.507	mg/L	0.10	101	85	115			
Zinc	0.506	mg/L	0.010	101	85	115			
Sample ID: C08091030-001BMS3	Sample Matrix Spike			Run: SUB-C108485			09/30/08 22:44		
Barium	0.622	mg/L	0.10	104	70	130			
Cadmium	0.261	mg/L	0.0010	104	70	130			
Chromium	0.515	mg/L	0.050	103	70	130			
Copper	0.522	mg/L	0.010	103	70	130			
Manganese	2.62	mg/L	0.010	105	70	130			
Nickel	0.511	mg/L	0.050	102	70	130			
Zinc	0.516	mg/L	0.010	102	70	130			
Sample ID: C08091030-001BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C108485			09/30/08 22:48		
Barium	0.614	mg/L	0.10	102	70	130	1.3	20	
Cadmium	0.257	mg/L	0.0010	103	70	130	1.7	20	
Chromium	0.509	mg/L	0.050	102	70	130	1.2	20	
Copper	0.517	mg/L	0.010	102	70	130	1	20	
Manganese	2.57	mg/L	0.010	102	70	130	2	20	
Nickel	0.505	mg/L	0.050	101	70	130	1.2	20	
Zinc	0.507	mg/L	0.010	100	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R108485		
Sample ID: MB-080930A	Method Blank		Run: SUB-C108485				09/30/08 13:29		
Silicon	0.04	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.02	mg/L	0.008						
Cadmium	ND	mg/L	0.0008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.005						
Iron	0.005	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Strontium	ND	mg/L	0.0002						
Vanadium	0.005	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Silica	0.09	mg/L	0.04						
Sample ID: LFB-080930A	Laboratory Fortified Blank		Run: SUB-C108485				09/30/08 13:33		
Silicon	0.47	mg/L	0.021	108	85	125			
Aluminum	1.00	mg/L	0.10	100	85	125			
Barium	1.0	mg/L	0.10	103	85	125			
Boron	1.0	mg/L	0.10	102	85	125			
Cadmium	1.0	mg/L	0.010	100	85	125			
Calcium	55	mg/L	0.50	110	85	125			
Chromium	1.0	mg/L	0.050	103	85	125			
Copper	1.0	mg/L	0.010	104	85	125			
Iron	1.1	mg/L	0.030	106	85	125			
Magnesium	54	mg/L	0.50	107	85	125			
Manganese	1.0	mg/L	0.010	104	85	125			
Molybdenum	1.0	mg/L	0.10	101	85	125			
Nickel	1.0	mg/L	0.050	101	85	125			
Potassium	46	mg/L	0.50	92	85	125			
Sodium	50	mg/L	0.77	100	85	125			
Strontium	1.1	mg/L	0.10	105	85	125			
Vanadium	1.1	mg/L	0.10	106	85	125			
Zinc	1.0	mg/L	0.010	103	85	125			
Silica	1.0	mg/L	0.044	46	85	125			S
Sample ID: C08091067-005BMS2	Sample Matrix Spike		Run: SUB-C108485				09/30/08 19:30		
Aluminum	2.11	mg/L	0.10	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R108485		
Sample ID: C08091067-005BMS2	Sample Matrix Spike		Run: SUB-C108485				09/30/08 19:30		
Barium	2.11	mg/L	0.10	105	70	130			
Boron	2.15	mg/L	0.10	104	70	130			
Cadmium	2.05	mg/L	0.010	103	70	130			
Chromium	2.12	mg/L	0.050	106	70	130			
Copper	2.10	mg/L	0.010	105	70	130			
Iron	2.25	mg/L	0.030	112	70	130			
Manganese	2.16	mg/L	0.010	105	70	130			
Molybdenum	2.03	mg/L	0.10	101	70	130			
Nickel	2.09	mg/L	0.050	104	70	130			
Silicon	7.96	mg/L	0.10		70	130			A
Strontium	2.81	mg/L	0.10	105	70	130			
Vanadium	2.23	mg/L	0.10	111	70	130			
Zinc	2.13	mg/L	0.010	106	70	130			
Calcium	180	mg/L	1.0	110	70	130			
Magnesium	137	mg/L	1.0	110	70	130			
Potassium	98.6	mg/L	1.0	95	70	130			
Sodium	152	mg/L	1.5	103	70	130			
Silica	17.0	mg/L	0.21		70	130			A
Sample ID: C08091067-005BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C108485				09/30/08 19:34		
Aluminum	2.06	mg/L	0.10	103	70	130	2.1	20	
Barium	2.13	mg/L	0.10	105	70	130	0.9	20	
Boron	2.20	mg/L	0.10	106	70	130	2.1	20	
Cadmium	2.08	mg/L	0.010	104	70	130	1.5	20	
Chromium	2.14	mg/L	0.050	107	70	130	1.2	20	
Copper	2.14	mg/L	0.010	107	70	130	1.5	20	
Iron	2.30	mg/L	0.030	115	70	130	2.4	20	
Manganese	2.18	mg/L	0.010	106	70	130	0.8	20	
Molybdenum	2.06	mg/L	0.10	103	70	130	1.7	20	
Nickel	2.10	mg/L	0.050	105	70	130	0.5	20	
Silicon	8.09	mg/L	0.10		70	130	1.7	20	A
Strontium	2.78	mg/L	0.10	104	70	130	1.1	20	
Vanadium	2.27	mg/L	0.10	113	70	130	1.9	20	
Zinc	2.17	mg/L	0.010	108	70	130	2.3	20	
Calcium	181	mg/L	1.0	110	70	130	0.2	20	
Magnesium	137	mg/L	1.0	110	70	130	0.1	20	
Potassium	97.7	mg/L	1.0	95	70	130	0.8	20	
Sodium	154	mg/L	1.5	104	70	130	0.8	20	
Silica	17.3	mg/L	0.21		70	130	1.7	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7_8							Batch: C_R108648		
Sample ID: LRB	Method Blank		Run: SUB-C108648				10/02/08 13:13		
Antimony	0.0001	mg/L	2E-05						
Arsenic	ND	mg/L	0.0002						
Beryllium	ND	mg/L	3E-05						
Lead	ND	mg/L	1E-05						
Selenium	ND	mg/L	0.0003						
Silver	7E-05	mg/L	2E-05						
Thallium	ND	mg/L	2E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C108648				10/02/08 13:20		
Antimony	0.0495	mg/L	0.0010	99	85	115			
Arsenic	0.0502	mg/L	0.0010	100	85	115			
Beryllium	0.0514	mg/L	0.0010	103	85	115			
Lead	0.0501	mg/L	0.0010	100	85	115			
Selenium	0.0522	mg/L	0.0010	104	85	115			
Silver	0.0203	mg/L	0.0010	101	85	115			
Thallium	0.0495	mg/L	0.0010	99	85	115			
Uranium	0.0470	mg/L	0.00030	94	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19902		
Sample ID: MB-19902	Method Blank		Run: SUB-C108648				10/02/08 17:04		
Antimony	ND	mg/L	0.0002						
Arsenic	0.004	mg/L	0.001						
Beryllium	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Selenium	ND	mg/L	0.0005						
Silver	ND	mg/L	0.0005						
Thallium	ND	mg/L	4E-05						
Uranium	ND	mg/L	5E-05						
Sample ID: LCS3-19902	Laboratory Control Sample		Run: SUB-C108648				10/02/08 17:38		
Antimony	0.541	mg/L	0.050	108	85	115			
Arsenic	0.550	mg/L	0.011	109	85	115			
Beryllium	0.237	mg/L	0.010	95	85	115			
Lead	0.502	mg/L	0.050	100	85	115			
Selenium	0.596	mg/L	0.0049	119	85	115			S
Silver	0.0438	mg/L	0.010	88	85	115			
Thallium	0.504	mg/L	0.10	101	85	115			
Uranium	0.566	mg/L	0.00049	113	85	115			
Sample ID: C08091030-001BMS3	Sample Matrix Spike		Run: SUB-C108648				10/02/08 20:49		
Antimony	0.531	mg/L	0.050	106	70	130			
Arsenic	0.553	mg/L	0.011	111	70	130			
Beryllium	0.243	mg/L	0.010	97	70	130			
Lead	0.491	mg/L	0.050	98	70	130			
Selenium	0.568	mg/L	0.0049	114	70	130			
Silver	0.0442	mg/L	0.010	88	70	130			
Thallium	0.496	mg/L	0.10	99	70	130			
Uranium	0.540	mg/L	0.00049	108	70	130			
Sample ID: C08091030-001BMSD3	Sample Matrix Spike Duplicate		Run: SUB-C108648				10/02/08 20:56		
Antimony	0.553	mg/L	0.050	111	70	130	4.1	20	
Arsenic	0.524	mg/L	0.011	105	70	130	5.4	20	
Beryllium	0.251	mg/L	0.010	100	70	130	3.2	20	
Lead	0.506	mg/L	0.050	101	70	130	3.1	20	
Selenium	0.528	mg/L	0.0049	106	70	130	7.4	20	
Silver	0.0466	mg/L	0.010	93	70	130	5.2	20	
Thallium	0.504	mg/L	0.10	101	70	130	1.6	20	
Uranium	0.548	mg/L	0.00049	109	70	130	1.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R108490
Sample ID: LRB	Method Blank								Run: SUB-C108490 09/30/08 12:20
Uranium	2E-06	mg/L	2E-06						
Sample ID: LFB	Laboratory Fortified Blank								Run: SUB-C108490 09/30/08 12:24
Uranium	0.0495	mg/L	0.00030	99	85	115			
Sample ID: 15 ppb CTRL	Laboratory Control Sample								Run: SUB-C108490 09/30/08 16:41
Uranium	0.017	mg/L	0.0050	115	70	130			
Sample ID: 30 ppb CTRL	Laboratory Control Sample								Run: SUB-C108490 09/30/08 16:45
Uranium	0.034	mg/L	0.0050	113	70	130			
Sample ID: 45 ppb CTRL	Laboratory Control Sample								Run: SUB-C108490 09/30/08 16:49
Uranium	0.049	mg/L	0.0050	109	70	130			
Sample ID: C08090557-005AMS	Sample Matrix Spike								Run: SUB-C108490 09/30/08 18:49
Uranium	0.046	mg/L	0.00030	93	70	130			
Sample ID: C08090557-005AMSD	Sample Matrix Spike Duplicate								Run: SUB-C108490 09/30/08 18:53
Uranium	0.047	mg/L	0.00030	93	70	130	0.7	20	
Sample ID: C08091148-031AMS2	Sample Matrix Spike								Run: SUB-C108490 09/30/08 22:17
Uranium	0.024	mg/L	0.0050	76	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108491		
Sample ID: LRB	Method Blank			Run: SUB-C108491			09/30/08 13:11		
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C108491			09/30/08 13:18		
Arsenic	0.0524	mg/L	0.0010	105	85	115			
Cadmium	0.0517	mg/L	0.0010	103	85	115			
Copper	0.0530	mg/L	0.0010	106	85	115			
Lead	0.0515	mg/L	0.0010	103	85	115			
Mercury	0.00511	mg/L	0.0010	102	85	115			
Silver	0.0206	mg/L	0.0010	103	85	115			
Thorium 232	0.0506	mg/L	0.0010	101	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			
Sample ID: R08090314-005C	Post Digestion Spike			Run: SUB-C108491			09/30/08 20:05		
Arsenic	0.0714	mg/L	0.0010	102	70	130			
Cadmium	0.0500	mg/L	0.010	100	70	130			
Copper	0.0485	mg/L	0.010	96	70	130			
Lead	0.0515	mg/L	0.050	102	70	130			
Mercury	0.00517	mg/L	0.0010	103	70	130			
Silver	0.0150	mg/L	0.010	75	70	130			
Thorium 232	0.0527	mg/L	0.0010	105	70	130			
Uranium	0.0551	mg/L	0.00030	105	70	130			
Sample ID: R08090314-005C	Post Digestion Spike Duplicate			Run: SUB-C108491			09/30/08 20:12		
Arsenic	0.0714	mg/L	0.0010	102	70	130	0	20	
Cadmium	0.0499	mg/L	0.010	100	70	130	0.3	20	
Copper	0.0482	mg/L	0.010	96	70	130	0.7	20	
Lead	0.0507	mg/L	0.050	101	70	130	1.5	20	
Mercury	0.00514	mg/L	0.0010	103	70	130	0.5	20	
Silver	0.0153	mg/L	0.010	77	70	130	2.1	20	
Thorium 232	0.0531	mg/L	0.0010	106	70	130	0.7	20	
Uranium	0.0552	mg/L	0.00030	105	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108648		
Sample ID: C08091079-003BMS4	Post Digestion Spike			Run: SUB-C108648			10/02/08 23:32		
Antimony	0.0529	mg/L	0.050	105	70	130			
Arsenic	0.0524	mg/L	0.0016	105	70	130			
Beryllium	0.0430	mg/L	0.010	86	70	130			
Lead	0.0499	mg/L	0.050	100	70	130			
Selenium	0.0561	mg/L	0.0010	107	70	130			
Silver	0.0163	mg/L	0.010	81	70	130			
Thallium	0.0500	mg/L	0.10	100	70	130			
Uranium	0.0577	mg/L	0.00030	96	70	130			
Sample ID: C08091079-003BMSD4	Post Digestion Spike Duplicate			Run: SUB-C108648			10/02/08 23:39		
Antimony	0.0532	mg/L	0.050	106	70	130	0.7	20	
Arsenic	0.0523	mg/L	0.0016	105	70	130	0.2	20	
Beryllium	0.0438	mg/L	0.010	88	70	130	1.8	20	
Lead	0.0494	mg/L	0.050	99	70	130	0	20	
Selenium	0.0558	mg/L	0.0010	106	70	130	0.7	20	
Silver	0.0165	mg/L	0.010	82	70	130	1.1	20	
Thallium	0.0495	mg/L	0.10	99	70	130	0	20	
Uranium	0.0571	mg/L	0.00030	95	70	130	1	20	
Method: E200.8							Batch: C_R110289		
Sample ID: LRB	Method Blank			Run: SUB-C110289			11/03/08 12:07		
Arsenic	ND	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C110289			11/03/08 12:14		
Arsenic	0.0494	mg/L	0.0010	99	85	115			
Sample ID: C08100994-020AMS4	Post Digestion Spike			Run: SUB-C110289			11/03/08 18:07		
Arsenic	0.0502	mg/L	0.0010	100	70	130			
Sample ID: C08100994-020AMSD4	Post Digestion Spike Duplicate			Run: SUB-C110289			11/03/08 18:14		
Arsenic	0.0496	mg/L	0.0010	98	70	130	1.2	20	
Sample ID: C08100981-001AMS4	Post Digestion Spike			Run: SUB-C110289			11/04/08 06:33		
Arsenic	0.0467	mg/L	0.0010	84	70	130			
Sample ID: C08100981-001AMSD4	Post Digestion Spike Duplicate			Run: SUB-C110289			11/04/08 06:40		
Arsenic	0.0478	mg/L	0.0010	86	70	130	2.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_34942
Sample ID: MB-34942	Method Blank								Run: SUB-B118320 09/29/08 09:37
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-34942	Laboratory Fortified Blank								Run: SUB-B118320 09/29/08 09:44
Mercury	0.0019	mg/L	0.0010	95	85	115			
Sample ID: B08092320-001DMS	Sample Matrix Spike								Run: SUB-B118320 09/29/08 10:25
Mercury	0.0025	mg/L	0.0010	124	70	130			
Sample ID: B08092320-001DMSD	Sample Matrix Spike Duplicate								Run: SUB-B118320 09/29/08 10:28
Mercury	0.0021	mg/L	0.0010	105	70	130	16	30	
Method: E245.1									Analytical Run: SUB-B118320
Sample ID: QCS	Initial Calibration Verification Standard								09/29/08 09:22
Mercury	0.0018	mg/L	0.0010	92	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R37666		
Sample ID: LFB0809244728-3	Laboratory Fortified Blank			Run: DIONEX_080924A			09/24/08 17:00		
Chloride	4.82	mg/L	0.50	96	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: LFB0809244728-4	Laboratory Fortified Blank			Run: DIONEX_080924A			09/24/08 17:16		
Chloride	4.93	mg/L	0.50	99	90	110			
Fluoride	2.07	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.44	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.53	mg/L	0.10	101	90	110			
Sulfate	15.0	mg/L	1.0	100	90	110			
Sample ID: R08090331-009AMS	Sample Matrix Spike			Run: DIONEX_080924A			09/24/08 21:06		
Chloride	48.5	mg/L	0.50		80	120			A
Fluoride	1.30	mg/L	0.10	53	80	120			S
Nitrogen, Nitrate as N	9.18	mg/L	0.10	81	80	120			
Nitrogen, Nitrite as N	2.62	mg/L	0.10	94	80	120			
Sulfate	3490	mg/L	1.0		80	120			A
Sample ID: R08090331-009AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080924A			09/24/08 21:22		
Chloride	49.0	mg/L	0.50		80	120	0.9	10	A
Fluoride	1.21	mg/L	0.10	48	80	120	7.2	10	S
Nitrogen, Nitrate as N	9.25	mg/L	0.10	84	80	120	0.8	10	
Nitrogen, Nitrite as N	2.66	mg/L	0.10	95	80	120	1.5	10	
Sulfate	3500	mg/L	1.0		80	120	0.3	10	A
Sample ID: R08090314-004AMS	Sample Matrix Spike			Run: DIONEX_080924A			09/25/08 00:23		
Chloride	254	mg/L	5.4	91	80	120			
Fluoride	104	mg/L	0.56	97	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	100	80	120			
Sulfate	1190	mg/L	3.4	89	80	120			
Sample ID: R08090314-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080924A			09/25/08 00:39		
Chloride	243	mg/L	5.4	86	80	120	4.7	10	
Fluoride	99.2	mg/L	0.56	93	80	120	4.8	10	
Nitrogen, Nitrate as N	114	mg/L	1.3	91	80	120	5.2	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	4.9	10	
Sulfate	1160	mg/L	3.4	84	80	120	3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0536		
Sample ID: MB-GrAB-0536	Method Blank								10/11/08 07:02
Gross Alpha	0.6	pCi/L							
Gross Beta	-0.4	pCi/L							U
Sample ID: UNAT-GrAB-0536	Laboratory Control Sample								10/11/08 07:02
Gross Alpha	120	pCi/L		87	70	130			
Sample ID: C08090586-002FMS	Sample Matrix Spike								10/11/08 07:02
Gross Beta	98.7	pCi/L		108	70	130			
Sample ID: C08090586-002FMSD	Sample Matrix Spike Duplicate								10/11/08 07:02
Gross Beta	89.2	pCi/L		98	70	130	10	16	
Sample ID: C08090975-004HDUP	Sample Duplicate								10/12/08 05:28
Gross Alpha	1700	pCi/L					13	14.9	
Gross Beta	690	pCi/L					2.3	14.3	
Method: E901.1							Batch: C_R109497		
Sample ID: MB-R109497	Method Blank								10/13/08 15:50
Americium 241		pCi/L							
Barium 133		pCi/L							
Bismuth 212		pCi/L							
Bismuth 214		pCi/L							
Cesium 134		pCi/L							
Cesium 137		pCi/L							
Cobalt 60		pCi/L							
Iodine 125		pCi/L							
Iodine 131		pCi/L							
Lead 212		pCi/L							
Lead 214		pCi/L							
Manganese 54		pCi/L							
Potassium 40		pCi/L							
Radium 223		pCi/L							
Radium 224		pCi/L							
Thallium 208		pCi/L							
Thorium 228		pCi/L							
Thorium 234		pCi/L							
Zinc 65		pCi/L							
Radium 228		pCi/L							
Gross Gamma		pCi/L							
Sample ID: LCS-R109497	Laboratory Control Sample								10/13/08 15:50
Cesium 137	46000	pCi/L	20	106	70	130			
Cobalt 60	32000	pCi/L	20	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_R109056		
Sample ID: C08090526-001AMS Radium 226	Sample Matrix Spike 9.0 pCi/g-dry			80	70	130			10/09/08 12:39
Sample ID: C08090526-001AMSD Radium 226	Sample Matrix Spike Duplicate 8.8 pCi/g-dry			82	70	130	1.5	20.9	10/09/08 12:39
Sample ID: LCS-19954 Radium 226	Laboratory Control Sample 0.015 pCi/g-dry			95	70	130			10/09/08 12:39
Sample ID: MB-19954 Radium 226	Method Blank 0.0001 pCi/g-dry								10/09/08 12:39 U
Method: E903.0							Batch: C_RA226-3131		
Sample ID: C08091031-001DMS Radium 226	Sample Matrix Spike 15 pCi/L			98	70	130			10/14/08 12:40
Sample ID: C08091031-001DMSD Radium 226	Sample Matrix Spike Duplicate 15 pCi/L			93	70	130	5.7	23.7	10/14/08 12:40
Sample ID: MB-RA226-3131 Radium 226	Method Blank 0.2 pCi/L								10/14/08 15:07
Sample ID: LCS-RA226-3131 Radium 226	Laboratory Control Sample 7.8 pCi/L			96	70	130			10/14/08 15:07
Method: E907.0							Batch: C_19925		
Sample ID: C08090975-001IMS Thorium 230	Sample Matrix Spike 12.4 pCi/L		0.20	114	70	130			09/30/08 16:00
Sample ID: C08090975-001IMSD Thorium 230	Sample Matrix Spike Duplicate 15.8 pCi/L		0.20	139	70	130	24	30	09/30/08 16:00 S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: LCS-19925 Thorium 230	Laboratory Control Sample 19.5 pCi/L		0.20	86	70	130			09/30/08 16:00
Sample ID: MB-19925 Thorium 230	Method Blank -1 pCi/L								09/30/08 16:00 U

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0656		
Sample ID: LCS-RA-TH-ISO-0656	Laboratory Control Sample					Run: SUB-C109544			10/20/08 08:48
Thorium 230	6.53	pCi/L	0.20	109	70	130			
Sample ID: C08090823-001DMS	Sample Matrix Spike					Run: SUB-C109544			10/20/08 08:48
Thorium 230	15.8	pCi/L	0.20	97	70	130			
Sample ID: C08090823-001DMSD	Sample Matrix Spike Duplicate					Run: SUB-C109544			10/20/08 08:48
Thorium 230	14.5	pCi/L	0.20	90	70	130	8.7	41.5	
Sample ID: MB-RA-TH-ISO-0656	Method Blank					Run: SUB-C109544			10/20/08 15:17
Thorium 230	-0.03	pCi/L							U
Method: E909.0M							Batch: C_19925		
Sample ID: C08090341-005AMS	Sample Matrix Spike					Run: SUB-C108927			10/01/08 08:40
Lead 210	1210	pCi/Filter		56	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08090341-005AMSD	Sample Matrix Spike Duplicate					Run: SUB-C108927			10/01/08 08:40
Lead 210	1430	pCi/Filter		75	70	130	17	30	
Sample ID: MB-R108927	Method Blank					Run: SUB-C108927			10/01/08 08:40
Lead 210	1	pCi/L							U
Sample ID: LCS-R108927	Laboratory Control Sample					Run: SUB-C108927			10/01/08 08:40
Lead 210	120	pCi/L		106	70	130			
Method: E909.0M							Batch: C_R109120		
Sample ID: C08090975-005HMS	Sample Matrix Spike					Run: SUB-C109120			10/02/08 10:37
Lead 210	640	pCi/L		111	70	130			
Sample ID: C08090975-005HMSD	Sample Matrix Spike Duplicate					Run: SUB-C109120			10/02/08 10:37
Lead 210	450	pCi/L		77	70	130	36	30	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: R08090356-005H	Sample Duplicate					Run: SUB-C109120			10/02/08 10:37
Lead 210	1.9	pCi/L					2100	30	UR
Lead 210 MDC	9.0	pCi/L							
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R109120	Method Blank					Run: SUB-C109120			10/02/08 10:37
Lead 210	-0.8	pCi/L							U
Sample ID: LCS-R109120	Laboratory Control Sample					Run: SUB-C109120			10/02/08 10:37
Lead 210	120	pCi/L		101	70	130			

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090314

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_PO210-0149		
Sample ID: R08090356-009J Polonium 210	Sample Matrix Spike 44	pCi/L	1.0	102	70	130			10/02/08 14:54
Sample ID: R08090356-009J Polonium 210	Sample Matrix Spike Duplicate 55	pCi/L	1.0	128	70	130	22	61.7	10/02/08 14:54
Sample ID: LCS-PO210-0149 Polonium 210	Laboratory Control Sample 41	pCi/L	1.0	95	70	130			10/03/08 08:57
Sample ID: MB-PO210-0149 Polonium 210	Method Blank 0.07	pCi/L							10/03/08 08:57 U

Qualifiers:

RL - Analyte reporting limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC		Project Name, PWS, Permit, Etc. Powerful DB		Sample Origin State: SD	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address:		Contact Name: Cor. Foreman @ respec.com	Phone/Fax:	Email:	Sampler: (Please Print) Eric Kromtz Allen Scott
Invoice Address:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - EI must be notified prior to sample submittal for the following:					
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Shipped by: Cooler ID(s): Receipt Temp: 4.8 °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal: Y N Intact: Y N Signature: Y N	
Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		ANALYSIS REQUESTED			
MATRIX W W W W W W W W W W		SEE ATTACHED Normal Turnaround (TAT)			
RUSH Comments: 411 GW Contact EI prior to RUSH sample submittal for charges and scheduling - See Instruction Page		Laboratory Use Only Burdock Pump test set 50 Burdock Pump test set 50 Set 7 Set 45 Set 41 TV4 old #8 TV4 old #2			
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 Dew Burd GW 680 2 Dew Burd GW 680 3 Dew Burd GW 698 4 Dew Burd GW 622 5 Dew Burd GW 615 6 7 8 9 10		Collection Date 4/22/08 4/22/08 9/22/08 9/22/08 9/22/08		Collection Time 11:18 11:22 13:05 16:00 16:30	
Date/Time: 9/23/08 0810 Signature: 		Date/Time: 9/23/08 0810 Signature: 		Date/Time: 9/23/08 0810 Signature: 	
Date/Time: 9/23/08 0810 Signature: 		Date/Time: 9/23/08 0810 Signature: 		Date/Time: 9/23/08 0810 Signature: 	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

November 20, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08090356 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 9 samples for RESPEC Inc on 9/24/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08090356-001	DewBurd GW689	09/23/08 13:43	09/24/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08090356-002	DewBurd GW681	09/23/08 13:55	09/24/08	Aqueous	Same As Above
R08090356-003	DewBurd GW704	09/23/08 12:30	09/24/08	Aqueous	Same As Above
R08090356-004	DewBurd GW699	09/23/08 11:45	09/24/08	Aqueous	Same As Above
R08090356-005	DewBurd GW694	09/23/08 10:00	09/24/08	Aqueous	Same As Above
R08090356-006	DewBurd GW696	09/23/08 9:35	09/24/08	Aqueous	Same As Above
R08090356-007	DewBurd GW695	09/23/08 11:00	09/24/08	Aqueous	Same As Above
R08090356-008	DewBurd GW3026	09/23/08 11:25	09/24/08	Aqueous	Same As Above



ANALYTICAL SUMMARY REPORT

R08090356-009 DewBurd BLK01

09/23/08 15:10 09/24/08

Aqueous

Metals by ICP/ICPMS, Dissolved
Metals by ICP/ICPMS, Suspended
Metals by ICP/ICPMS, Total
Alkalinity
Conductivity
Mercury, Total
Selenium, Dissolved
Selenium, Dissolved
Selenium, Dissolved
Anions by Ion Chromatography
Nitrogen, Ammonia
Oxidation Reduction Potential
pH
Digestion, Total Metals
Digestion, Total Metals
Dissolved Filtration
Digestion, Mercury by CVAA
Gross Alpha, Gross Beta
Gross Gamma, Dissolved
Lead 210, Dissolved
Lead 210, Suspended
Polonium 210, Dissolved
Polonium 210, Suspended
Radium 226, Dissolved
Radium 226, Suspended
Radon 222
Thorium, Isotopic
Thorium, Suspended Isotopic
Sodium Adsorption Ratio
Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson
Rapid City - Project Manager



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08090356

Date: 20-Nov-08

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005

eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002

eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942

eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006

eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945

eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08091068

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis. The MDC of 0.2 pCi/L for Ra226 was not achievable on all samples due to insufficient volume.

End of comments imported for SUBBED Workorder: C08091068



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-001
 Client Sample ID: DewBurd GW689

Report Date: 11/20/08
 Collection Date: 09/23/08 13:43
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B	10/02/08 14:12/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/02/08 14:12/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B	10/02/08 14:12/mb
Calcium	44.6	mg/L		0.5		2	E200.7	10/10/08 11:27/eli-c
Chloride	5	mg/L		1		1	E300.0	09/25/08 13:33/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	09/25/08 13:33/jmh
Magnesium	15.0	mg/L		0.5		2	E200.7	10/10/08 11:27/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	09/30/08 14:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 13:33/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 13:33/jmh
Potassium	6.9	mg/L		0.5		2	E200.7	10/10/08 11:27/eli-c
Sodium	165	mg/L		2		2	E200.7	10/10/08 11:27/eli-c
Sulfate	362	mg/L	D	3		50	E300.0	09/25/08 12:44/jmh
Silica	10.3	mg/L		0.2		2	E200.7	10/10/08 11:27/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	840	umhos/cm		5.0		1	A2510 B	09/25/08 10:31/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	09/25/08 11:16/tb
Sodium Adsorption Ratio (SAR)	5.5	unitless		0.10		1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	700	mg/L		5		1	A2540 C	09/30/08 13:52/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	10/10/08 11:27/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/02/08 04:10/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/02/08 04:10/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 11:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/02/08 04:10/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/02/08 04:10/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/02/08 04:10/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/10/08 11:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/02/08 04:10/eli-c
Manganese	0.03	mg/L		0.01		1	E200.8	10/02/08 04:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/02/08 04:10/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/02/08 04:10/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/02/08 04:10/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 15:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/02/08 04:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/02/08 04:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08090356-001
Client Sample ID: DewBurd GW689

Report Date: 11/20/08
Collection Date: 09/23/08 13:43
Date Received: 09/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0030	mg/L		0.0003		1 E200.8	10/02/08 04:10/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	10/02/08 04:10/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	10/02/08 04:10/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/30/08 19:41/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	10/02/08 11:27/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	30.9	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	4.2	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	3.8	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Beta	9.2	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	2.2	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	3.4	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Lead 210	3.8	pCi/L	U			1 E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.4	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1 RMO-3008	10/02/08 14:54/eli-c
Radium 226	7.5	pCi/L				1 E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.6	pCi/L				1 E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1 E907.0	10/27/08 15:37/eli-c
Gross Gamma	960	pCi/L				1 E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	140	pCi/L				1 E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	0.2	pCi/L	U			1 E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.16	pCi/L	U			1 RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1 RMO-3008	10/09/08 09:13/eli-c
Radium 226	0.2	pCi/L	U			1 E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.3	pCi/L				1 E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

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ND - Not detected at the reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-001
 Client Sample ID: DewBurd GW689

Report Date: 11/20/08
 Collection Date: 09/23/08 13:43
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1520	pCi/L		100		1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	74.9	pCi/L				1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		10	E200.8	10/03/08 05:05/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/03/08 16:43/eli-c
Barium	ND	mg/L		0.1		10	E200.8	10/03/08 05:05/eli-c
Beryllium	ND	mg/L		0.002		10	E200.8	10/03/08 05:05/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/02/08 20:27/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	10/03/08 05:05/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	10/03/08 05:05/eli-c
Copper	ND	mg/L		0.01		10	E200.8	10/03/08 05:05/eli-c
Iron	0.45	mg/L		0.03		2	E200.7	10/02/08 20:27/eli-c
Lead	ND	mg/L		0.001		10	E200.8	10/03/08 05:05/eli-c
Manganese	0.05	mg/L		0.01		10	E200.8	10/03/08 05:05/eli-c
Mercury	ND	mg/L		0.001		2	E245.1	09/29/08 12:54/eli-b
Molybdenum	ND	mg/L		0.1		10	E200.8	10/03/08 05:05/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	10/03/08 05:05/eli-c
Selenium	ND	mg/L		0.001		10	E200.8	10/03/08 05:05/eli-c
Silver	ND	mg/L		0.005		10	E200.8	10/03/08 05:05/eli-c
Strontium	0.9	mg/L		0.1		10	E200.8	10/03/08 05:05/eli-c
Thallium	ND	mg/L		0.001		10	E200.8	10/03/08 05:05/eli-c
Uranium	0.0030	mg/L		0.0005		10	E200.8	10/03/08 05:05/eli-c
Zinc	0.09	mg/L		0.01		10	E200.8	10/03/08 05:05/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.520	%				1	A1030 E	11/17/08 00:00/jmh
Anions	10.7	meq/L				1	A1030 E	11/17/08 00:00/jmh
Cations	10.8	meq/L				1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	718	mg/L				1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	11/17/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-002
 Client Sample ID: DewBurd GW681

Report Date: 11/20/08
 Collection Date: 09/23/08 13:55
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	174	mg/L		5			1	A2320 B	10/02/08 14:15/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/02/08 14:15/mb
Bicarbonate as HCO3	212	mg/L		5			1	A2320 B	10/02/08 14:15/mb
Calcium	65.0	mg/L		0.5			2	E200.7	10/10/08 11:39/eli-c
Chloride	16	mg/L		1			1	E300.0	09/25/08 14:06/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	09/25/08 14:06/jmh
Magnesium	24.6	mg/L		0.5			2	E200.7	10/10/08 11:39/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	09/30/08 14:11/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/25/08 14:06/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/25/08 14:06/jmh
Potassium	9.3	mg/L		0.5			2	E200.7	10/10/08 11:39/eli-c
Sodium	212	mg/L		2			2	E200.7	10/10/08 11:39/eli-c
Sulfate	515	mg/L	D	3			50	E300.0	09/25/08 13:50/jmh
Silica	8.5	mg/L		0.2			2	E200.7	10/10/08 11:39/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1020	umhos/cm		5.0			1	A2510 B	09/25/08 10:33/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	09/25/08 00:00/jmh
pH	7.84	s.u.		0.01			1	A4500-H B	09/25/08 11:18/tb
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.10			1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5			1	A2540 C	09/30/08 13:53/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	10/10/08 11:39/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	10/02/08 04:17/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/02/08 04:17/eli-c
Boron	ND	mg/L		0.1			2	E200.7	10/10/08 11:39/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/02/08 04:17/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/02/08 04:17/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/02/08 04:17/eli-c
Iron	ND	mg/L		0.03			2	E200.7	10/10/08 11:39/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/02/08 04:17/eli-c
Manganese	0.07	mg/L		0.01			1	E200.8	10/02/08 04:17/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/02/08 04:17/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/02/08 04:17/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/02/08 04:17/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	10/02/08 16:05/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/02/08 04:17/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/02/08 04:17/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



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Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0093	mg/L		0.0003		1 E200.8	10/02/08 04:17/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	10/02/08 04:17/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	10/02/08 04:17/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	09/30/08 19:45/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	10/02/08 11:33/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1180	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	24.8	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	4.8	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Beta	264	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	5.8	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	4.5	pCi/L				1 E900.0	10/30/08 01:42/eli-ca
Lead 210	28.3	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.8	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1 E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.8	pCi/L	U	1.0		1 RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1 RMO-3008	10/02/08 14:54/eli-c
Radium 226	445	pCi/L				1 E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	4.1	pCi/L				1 E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1 E907.0	10/27/08 15:37/eli-c
Gross Gamma	1200	pCi/L				1 E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	200	pCi/L				1 E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	4.9	pCi/L	U			1 E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.7	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1 E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.88	pCi/L				1 RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.63	pCi/L				1 RMO-3008	10/09/08 09:13/eli-c
Radium 226	0.9	pCi/L				1 E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1 E903.0	10/09/08 07:33/eli-c

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Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.1	pCi/L	U	0.2		E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	304000	pCi/L		100		D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	704	pCi/L				D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		E200.8	10/03/08 16:50/eli-c
Arsenic	0.002	mg/L		0.001		E200.8	10/03/08 16:50/eli-c
Barium	ND	mg/L		0.1		E200.8	10/03/08 16:50/eli-c
Beryllium	ND	mg/L		0.001		E200.8	10/03/08 16:50/eli-c
Boron	ND	mg/L		0.1	2	E200.7	10/10/08 21:40/eli-c
Cadmium	ND	mg/L		0.005		E200.8	10/03/08 16:50/eli-c
Chromium	ND	mg/L		0.05		E200.8	10/03/08 16:50/eli-c
Copper	ND	mg/L		0.01		E200.8	10/03/08 16:50/eli-c
Iron	0.07	mg/L		0.03	2	E200.7	10/10/08 21:40/eli-c
Lead	ND	mg/L		0.001		E200.8	10/03/08 16:50/eli-c
Manganese	0.08	mg/L		0.01		E200.8	10/03/08 16:50/eli-c
Mercury	ND	mg/L		0.001		E245.1	09/29/08 12:07/eli-b
Molybdenum	ND	mg/L		0.1		E200.8	10/03/08 16:50/eli-c
Nickel	ND	mg/L		0.05		E200.8	10/03/08 16:50/eli-c
Selenium	ND	mg/L		0.001		E200.8	10/03/08 16:50/eli-c
Silver	ND	mg/L		0.005		E200.8	10/03/08 16:50/eli-c
Strontium	1.2	mg/L		0.1		E200.8	10/03/08 16:50/eli-c
Thallium	ND	mg/L		0.001		E200.8	10/03/08 16:50/eli-c
Uranium	0.0098	mg/L		0.0003		E200.8	10/03/08 16:50/eli-c
Zinc	ND	mg/L		0.01		E200.8	10/03/08 16:50/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.190	%				A1030 E	11/17/08 00:00/jmh
Anions	14.7	meq/L				A1030 E	11/17/08 00:00/jmh
Cations	14.7	meq/L				A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	969	mg/L				A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.920					A1030 E	11/17/08 00:00/jmh

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-003
 Client Sample ID: DewBurd GW704

Report Date: 11/20/08
 Collection Date: 09/23/08 12:30
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	74	mg/L		5		1	A2320 B	10/02/08 14:23/mb
Carbonate as CO3	12	mg/L		5		1	A2320 B	10/02/08 14:23/mb
Bicarbonate as HCO3	66	mg/L		5		1	A2320 B	10/02/08 14:23/mb
Calcium	23.0	mg/L		0.5		2	E200.7	10/10/08 11:47/eli-c
Chloride	70	mg/L	D	5		50	E300.0	09/25/08 14:23/jmh
Fluoride	0.8	mg/L		0.1		1	E300.0	09/25/08 14:39/jmh
Magnesium	14.8	mg/L		0.5		2	E200.7	10/10/08 11:47/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G	09/30/08 14:12/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 14:39/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 14:39/jmh
Potassium	6.8	mg/L		0.5		2	E200.7	10/10/08 11:47/eli-c
Sodium	437	mg/L		2		2	E200.7	10/10/08 11:47/eli-c
Sulfate	872	mg/L	D	3		50	E300.0	09/25/08 14:23/jmh
Silica	ND	mg/L		0.2		2	E200.7	10/10/08 11:47/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1570	umhos/cm		5.0		1	A2510 B	09/25/08 10:34/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B	09/25/08 00:00/jmh
pH	9.46	s.u.		0.01		1	A4500-H B	09/25/08 11:20/tb
Sodium Adsorption Ratio (SAR)	17	unitless		0.10		1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C	09/30/08 13:53/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	10/10/08 11:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/02/08 04:23/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/02/08 04:23/eli-c
Boron	0.9	mg/L		0.1		2	E200.7	10/10/08 11:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/02/08 04:23/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/02/08 04:23/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/02/08 04:23/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/10/08 11:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/02/08 04:23/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	10/02/08 04:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/02/08 04:23/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/02/08 04:23/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/02/08 04:23/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 16:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/02/08 04:23/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/02/08 04:23/eli-c

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 D - RL increased due to sample matrix interference.



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Project: Edgemont
Lab ID: R08090356-003
Client Sample ID: DewBurd GW704

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Date Received: 09/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 04:23/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 04:23/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 04:23/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/30/08 19:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:36/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-3	pCi/L	U			1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	7.4	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta	-5	pCi/L	U			1	E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	3.9	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	6.7	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Lead 210	1.1	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	0.04	pCi/L	U			1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	830	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.6	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	-0.015	pCi/L	U			1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 07:33/eli-c

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Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By	
				RL	QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.3	pCi/L		0.2			1	E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	188	pCi/L		100			1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	59.3	pCi/L					1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/03/08 16:57/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/03/08 16:57/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/03/08 16:57/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	10/03/08 16:57/eli-c
Boron	0.9	mg/L		0.1			2	E200.7	10/10/08 21:56/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/03/08 16:57/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/03/08 16:57/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/03/08 16:57/eli-c
Iron	0.87	mg/L		0.03			2	E200.7	10/10/08 21:56/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/03/08 16:57/eli-c
Manganese	0.04	mg/L		0.01			1	E200.8	10/03/08 16:57/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	09/29/08 12:09/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	10/03/08 16:57/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/03/08 16:57/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/03/08 16:57/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/03/08 16:57/eli-c
Strontium	2.5	mg/L		0.1			1	E200.8	10/03/08 16:57/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	10/03/08 16:57/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	10/03/08 16:57/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/03/08 16:57/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.140	%					1	A1030 E	11/17/08 00:00/jmh
Anions	21.6	meq/L					1	A1030 E	11/17/08 00:00/jmh
Cations	21.6	meq/L					1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	1470	mg/L					1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.900						1	A1030 E	11/17/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-004
 Client Sample ID: DewBurd GW699

Report Date: 11/20/08
 Collection Date: 09/23/08 11:45
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	10/02/08 14:25/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/02/08 14:25/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	10/02/08 14:25/mb
Calcium	53.1	mg/L		0.5		2	E200.7	10/10/08 11:51/eli-c
Chloride	8	mg/L		1		1	E300.0	09/25/08 15:12/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	09/25/08 15:12/jmh
Magnesium	17.5	mg/L		0.5		2	E200.7	10/10/08 11:51/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	09/30/08 14:13/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 15:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 15:12/jmh
Potassium	8.2	mg/L		0.5		2	E200.7	10/10/08 11:51/eli-c
Sodium	210	mg/L		2		2	E200.7	10/10/08 11:51/eli-c
Sulfate	435	mg/L	D	3		50	E300.0	09/25/08 14:55/jmh
Silica	8.6	mg/L		0.2		2	E200.7	10/10/08 11:51/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	951	umhos/cm		5.0		1	A2510 B	09/25/08 10:37/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.83	s.u.		0.01		1	A4500-H B	09/25/08 11:21/tb
Sodium Adsorption Ratio (SAR)	6.4	unitless		0.10		1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5		1	A2540 C	09/30/08 13:54/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	10/10/08 11:51/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/02/08 04:30/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/02/08 04:30/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 11:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/02/08 04:30/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/02/08 04:30/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/02/08 04:30/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	10/10/08 11:51/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/02/08 04:30/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	10/02/08 04:30/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/02/08 04:30/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/02/08 04:30/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/02/08 04:30/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 16:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/02/08 04:30/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/02/08 04:30/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference. Page 10 of 27



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-004
 Client Sample ID: DewBurd GW699

Report Date: 11/20/08
 Collection Date: 09/23/08 11:45
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 04:30/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 04:30/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 04:30/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/30/08 19:53/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:38/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.3	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	3.1	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	4.4	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta	5.7	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	3.4	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Lead 210	-2	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	-0.5	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.74	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	1	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-1	pCi/L	U			1	E909.0M	10/01/08 08:40/eli-c
Lead 210 precision (±)	4.6	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Lead 210 MDC	7.8	pCi/L				1	E909.0M	10/01/08 08:40/eli-c
Polonium 210	0.027	pCi/L	U			1	RMO-3008	10/09/08 09:13/eli-c
Polonium 210 precision (±)	0.27	pCi/L				1	RMO-3008	10/09/08 09:13/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	10/09/08 07:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/09/08 07:33/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 07:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-004
 Client Sample ID: DewBurd GW699

Report Date: 11/20/08
 Collection Date: 09/23/08 11:45
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	09/30/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	09/30/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	313	pCi/L		100		1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	61.3	pCi/L				1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/03/08 17:04/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/03/08 17:04/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/03/08 17:04/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/03/08 17:04/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 22:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/03/08 17:04/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/03/08 17:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/03/08 17:04/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	10/10/08 22:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/03/08 17:04/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	10/03/08 17:04/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	09/29/08 12:12/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/03/08 17:04/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/03/08 17:04/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/03/08 17:04/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/03/08 17:04/eli-c
Strontium	1.1	mg/L		0.1		1	E200.8	10/03/08 17:04/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/03/08 17:04/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/03/08 17:04/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/03/08 17:04/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.88	%				1	A1030 E	11/17/08 00:00/jmh
Anions	12.7	meq/L				1	A1030 E	11/17/08 00:00/jmh
Cations	13.4	meq/L				1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	857	mg/L				1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	11/17/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-005
 Client Sample ID: DewBurd GW694

Report Date: 11/20/08
 Collection Date: 09/23/08 10:00
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	202	mg/L		5		1	A2320 B	10/02/08 14:26/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/02/08 14:26/mb
Bicarbonate as HCO3	246	mg/L		5		1	A2320 B	10/02/08 14:26/mb
Calcium	101	mg/L		0.5		2	E200.7	10/10/08 11:55/eli-c
Chloride	9	mg/L		1		1	E300.0	09/25/08 16:50/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/25/08 16:50/jmh
Magnesium	37.3	mg/L		0.5		2	E200.7	10/10/08 11:55/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	09/30/08 14:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 16:50/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 16:50/jmh
Potassium	12.8	mg/L		0.5		2	E200.7	10/10/08 11:55/eli-c
Sodium	179	mg/L		2		2	E200.7	10/10/08 11:55/eli-c
Sulfate	533	mg/L	D	3		50	E300.0	09/25/08 16:01/jmh
Silica	ND	mg/L		0.5		2	E200.7	10/10/08 11:55/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1070	umhos/cm		5.0		1	A2510 B	09/25/08 10:39/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B	09/25/08 00:00/jmh
pH	7.63	s.u.		0.01		1	A4500-H B	09/25/08 11:22/tb
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.10		1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C	09/30/08 13:54/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	10/10/08 11:55/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	10/02/08 04:37/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/02/08 04:37/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 11:55/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/02/08 04:37/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/02/08 04:37/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/02/08 04:37/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/10/08 11:55/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/02/08 04:37/eli-c
Manganese	0.13	mg/L		0.01		1	E200.8	10/02/08 04:37/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/02/08 04:37/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/02/08 04:37/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/02/08 04:37/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 16:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/02/08 04:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/02/08 04:37/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-005
 Client Sample ID: DewBurd GW694

Report Date: 11/20/08
 Collection Date: 09/23/08 10:00
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0005	mg/L		0.0003		1	E200.8	10/02/08 04:37/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 04:37/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 04:37/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 03:42/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	7.4	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	5.1	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta	9.3	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	4.5	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Lead 210	-2	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.76	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	1.7	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-1	pCi/L	U			1	E909.0M	10/13/08 10:21/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Polonium 210	0.17	pCi/L	U			1	RMO-3008	10/09/08 12:31/eli-c
Polonium 210 precision (±)	0.46	pCi/L				1	RMO-3008	10/09/08 12:31/eli-c
Radium 226	-0.04	pCi/L	U			1	E903.0	10/09/08 09:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 09:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08090356-005
Client Sample ID: DewBurd GW694

Report Date: 11/20/08
Collection Date: 09/23/08 10:00
Date Received: 09/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	09/30/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	09/30/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	296	pCi/L		100			1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	61.9	pCi/L					1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/03/08 17:10/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	10/03/08 17:10/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/03/08 17:10/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	10/03/08 17:10/eli-c
Boron	ND	mg/L		0.1			2	E200.7	10/10/08 22:05/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/03/08 17:10/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/03/08 17:10/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/03/08 17:10/eli-c
Iron	0.18	mg/L		0.03			2	E200.7	10/10/08 22:05/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/03/08 17:10/eli-c
Manganese	0.15	mg/L		0.01			1	E200.8	10/03/08 17:10/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	09/29/08 12:14/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	10/03/08 17:10/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/03/08 17:10/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/03/08 17:10/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/03/08 17:10/eli-c
Strontium	2.7	mg/L		0.1			1	E200.8	10/03/08 17:10/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	10/03/08 17:10/eli-c
Uranium	0.0006	mg/L		0.0003			1	E200.8	10/03/08 17:10/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/03/08 17:10/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.57	%					1	A1030 E	11/17/08 00:00/jmh
Anions	15.4	meq/L					1	A1030 E	11/17/08 00:00/jmh
Cations	16.2	meq/L					1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	993	mg/L					1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	11/17/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-006
 Client Sample ID: DewBurd GW696

Report Date: 11/20/08
 Collection Date: 09/23/08 09:35
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B 10/02/08 14:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 10/02/08 14:30/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B 10/02/08 14:30/mb
Calcium	30.6	mg/L		0.5		2	E200.7 10/10/08 12:11/eli-c
Chloride	12	mg/L		1		1	E300.0 09/25/08 17:23/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 09/25/08 17:23/jmh
Magnesium	10.6	mg/L		0.5		2	E200.7 10/10/08 12:11/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G 09/30/08 14:18/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 09/25/08 17:23/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 09/25/08 17:23/jmh
Potassium	8.6	mg/L		0.5		2	E200.7 10/10/08 12:11/eli-c
Sodium	280	mg/L		2		2	E200.7 10/10/08 12:11/eli-c
Sulfate	506	mg/L	D	3		50	E300.0 09/25/08 17:07/jmh
Silica	ND	mg/L		0.5		2	E200.7 10/10/08 12:11/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1100	umhos/cm		5.0		1	A2510 B 09/25/08 10:40/tb
Oxidation-Reduction Potential	190	mV				1	A2580 B 09/25/08 00:00/jmh
pH	8.15	s.u.		0.01		1	A4500-H B 09/25/08 11:25/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation 11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C 09/30/08 13:55/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 10/10/08 12:11/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 10/02/08 04:44/eli-c
Barium	ND	mg/L		0.1		1	E200.8 10/02/08 04:44/eli-c
Boron	ND	mg/L		0.1		2	E200.7 10/10/08 12:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 10/02/08 04:44/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 10/02/08 04:44/eli-c
Copper	ND	mg/L		0.01		1	E200.8 10/02/08 04:44/eli-c
Iron	ND	mg/L		0.03		2	E200.7 10/10/08 12:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8 10/02/08 04:44/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8 10/02/08 04:44/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 10/02/08 04:44/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 10/02/08 04:44/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 10/02/08 04:44/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 10/02/08 16:14/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/02/08 04:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/02/08 04:44/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-006
 Client Sample ID: DewBurd GW696

Report Date: 11/20/08
 Collection Date: 09/23/08 09:35
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 04:44/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 04:44/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 04:44/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 03:46/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:43/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5.9	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Alpha precision (±)	3.4	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Alpha MDC	5.0	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Beta	8.2	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Lead 210	-1	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.89	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	1.5	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.9	pCi/L	U			1	E909.0M	10/13/08 10:21/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Polonium 210	-0.062	pCi/L	U			1	RMO-3008	10/09/08 12:31/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1	RMO-3008	10/09/08 12:31/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	10/09/08 09:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 09:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08090356-006
Client Sample ID: DewBurd GW696

Report Date: 11/20/08
Collection Date: 09/23/08 09:35
Date Received: 09/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	09/30/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	09/30/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	214	pCi/L		100			1	D5072-92	09/26/08 15:10/eii-c
Radon 222 precision (±)	61.0	pCi/L					1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/03/08 17:17/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/03/08 17:17/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/03/08 17:17/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	10/03/08 17:17/eli-c
Boron	ND	mg/L		0.1			2	E200.7	10/10/08 22:17/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/03/08 17:17/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/03/08 17:17/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/03/08 17:17/eli-c
Iron	0.14	mg/L		0.03			2	E200.7	10/10/08 22:17/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/03/08 17:17/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	10/03/08 17:17/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	09/29/08 12:21/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	10/03/08 17:17/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/03/08 17:17/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/03/08 17:17/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/03/08 17:17/eli-c
Strontium	0.8	mg/L		0.1			1	E200.8	10/03/08 17:17/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	10/03/08 17:17/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	10/03/08 17:17/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/03/08 17:17/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.13	%					1	A1030 E	11/17/08 00:00/jmh
Anions	14.5	meq/L					1	A1030 E	11/17/08 00:00/jmh
Cations	14.8	meq/L					1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	957	mg/L					1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	11/17/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-007
 Client Sample ID: DewBurd GW695

Report Date: 11/20/08
 Collection Date: 09/23/08 11:00
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	196	mg/L		5		1	A2320 B	10/02/08 14:33/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/02/08 14:33/mb
Bicarbonate as HCO3	239	mg/L		5		1	A2320 B	10/02/08 14:33/mb
Calcium	347	mg/L		0.5		2	E200.7	10/10/08 12:15/eli-c
Chloride	15	mg/L		1		1	E300.0	09/25/08 17:56/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	09/25/08 17:56/jmh
Magnesium	113	mg/L		0.5		2	E200.7	10/10/08 12:15/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G	09/30/08 14:21/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 17:56/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 17:56/jmh
Potassium	18.6	mg/L		0.5		2	E200.7	10/10/08 12:15/eli-c
Sodium	171	mg/L		2		2	E200.7	10/10/08 12:15/eli-c
Sulfate	1560	mg/L	D	3		50	E300.0	09/25/08 17:40/jmh
Silica	ND	mg/L		0.5		2	E200.7	10/10/08 12:15/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2060	umhos/cm		5.0		1	A2510 B	09/25/08 10:43/tb
Oxidation-Reduction Potential	-97.9	mV				1	A2580 B	09/25/08 00:00/jmh
pH	6.92	s.u.		0.01		1	A4500-H B	09/25/08 11:27/tb
Sodium Adsorption Ratio (SAR)	2.0	unitless		0.10		1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	09/30/08 13:55/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	10/10/08 12:15/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/02/08 04:51/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/02/08 04:51/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	10/10/08 12:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/02/08 04:51/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/02/08 04:51/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/02/08 04:51/eli-c
Iron	1.26	mg/L		0.03		2	E200.7	10/10/08 12:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/02/08 04:51/eli-c
Manganese	0.84	mg/L		0.01		1	E200.8	10/02/08 04:51/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/02/08 04:51/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/02/08 04:51/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/02/08 04:51/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 16:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/02/08 04:51/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/02/08 04:51/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.
 Page 19 of 27



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-007
 Client Sample ID: DewBurd GW695

Report Date: 11/20/08
 Collection Date: 09/23/08 11:00
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0059	mg/L		0.0003		1	E200.8	10/02/08 04:51/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 04:51/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 04:51/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0008		1	E200.8	10/02/08 03:50/eli-c
METALS - SPECIATED								
Selenium-IV	0.001	mg/L		0.001		1	A3114 B	10/02/08 11:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	44.0	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Alpha precision (±)	9.2	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Alpha MDC	10.2	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Beta	16.0	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Beta precision (±)	5.6	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Gross Beta MDC	9.0	pCi/L				1	E900.0	10/30/08 01:42/eli-c
Lead 210	0.1	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.84	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	10.4	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	960	pCi/L				1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	10/13/08 10:21/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Polonium 210	0.066	pCi/L	U			1	RMO-3008	10/09/08 12:31/eli-c
Polonium 210 precision (±)	0.45	pCi/L				1	RMO-3008	10/09/08 12:31/eli-c
Radium 226	0.9	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 09:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-007
 Client Sample ID: DewBurd GW695

Report Date: 11/20/08
 Collection Date: 09/23/08 11:00
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.5	pCi/L		0.2		1 E907.0	09/30/08 15:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E907.0	09/30/08 15:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	357	pCi/L		100		1 D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	62.3	pCi/L				1 D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	10/03/08 17:24/eli-c
Arsenic	0.016	mg/L		0.001		1 E200.8	10/03/08 17:24/eli-c
Barium	ND	mg/L		0.1		1 E200.8	10/03/08 17:24/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	10/03/08 17:24/eli-c
Boron	0.2	mg/L		0.1		2 E200.7	10/10/08 22:25/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	10/03/08 17:24/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	10/03/08 17:24/eli-c
Copper	ND	mg/L		0.01		1 E200.8	10/03/08 17:24/eli-c
Iron	17.9	mg/L		0.03		2 E200.7	10/10/08 22:25/eli-c
Lead	ND	mg/L		0.001		1 E200.8	10/03/08 17:24/eli-c
Manganese	1.18	mg/L		0.01		1 E200.8	10/03/08 17:24/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	09/29/08 12:36/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	10/03/08 17:24/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	10/03/08 17:24/eli-c
Selenium	0.002	mg/L		0.001		1 E200.8	10/03/08 17:24/eli-c
Silver	ND	mg/L		0.005		1 E200.8	10/03/08 17:24/eli-c
Strontium	6.5	mg/L		0.1		1 E200.8	10/03/08 17:24/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	10/03/08 17:24/eli-c
Uranium	0.0085	mg/L		0.0003		1 E200.8	10/03/08 17:24/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	10/03/08 17:24/eli-c
DATA QUALITY							
A/C Balance (± 5)	-3.03	%				1 A1030 E	11/17/08 00:00/jmh
Anions	36.8	meq/L				1 A1030 E	11/17/08 00:00/jmh
Cations	34.6	meq/L				1 A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	2340	mg/L				1 A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970					1 A1030 E	11/17/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-008
 Client Sample ID: DewBurd GW3026

Report Date: 11/20/08
 Collection Date: 09/23/08 11:25
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	174	mg/L		5			1	A2320 B	10/02/08 14:35/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	10/02/08 14:35/mb
Bicarbonate as HCO3	212	mg/L		5			1	A2320 B	10/02/08 14:35/mb
Calcium	46.4	mg/L		0.5			2	E200.7	10/10/08 12:20/eli-c
Chloride	12	mg/L		1			1	E300.0	09/25/08 18:12/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	09/25/08 18:12/jmh
Magnesium	17.3	mg/L		0.5			2	E200.7	10/10/08 12:20/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	09/30/08 14:22/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	09/25/08 18:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	09/25/08 18:12/jmh
Potassium	7.6	mg/L		0.5			2	E200.7	10/10/08 12:20/eli-c
Sodium	229	mg/L		2			2	E200.7	10/10/08 12:20/eli-c
Sulfate	514	mg/L		1			10	E300.0	09/26/08 23:57/jmh
Silica	ND	mg/L		0.5			2	E200.7	10/10/08 12:20/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1040	umhos/cm		5.0			1	A2510 B	09/25/08 10:46/tb
Oxidation-Reduction Potential	150	mV					1	A2580 B	09/25/08 00:00/jmh
pH	7.93	s.u.		0.01			1	A4500-H B	09/25/08 11:28/tb
Sodium Adsorption Ratio (SAR)	7.3	unitless		0.10			1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5			1	A2540 C	09/30/08 13:58/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			2	E200.7	10/10/08 12:20/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	10/02/08 05:24/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/02/08 05:24/eli-c
Boron	ND	mg/L		0.1			2	E200.7	10/10/08 12:20/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/02/08 05:24/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/02/08 05:24/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/02/08 05:24/eli-c
Iron	ND	mg/L		0.03			2	E200.7	10/10/08 12:20/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/02/08 05:24/eli-c
Manganese	0.07	mg/L		0.01			1	E200.8	10/02/08 05:24/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	10/02/08 05:24/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	10/02/08 05:24/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/02/08 05:24/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	10/02/08 16:23/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/02/08 05:24/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	10/02/08 05:24/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-008
 Client Sample ID: DewBurd GW3026

Report Date: 11/20/08
 Collection Date: 09/23/08 11:25
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0027	mg/L		0.0003		1	E200.8	10/02/08 05:24/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/02/08 05:24/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/02/08 05:24/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/02/08 03:54/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/02/08 11:52/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	15.9	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha precision (±)	7.0	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Alpha MDC	9.6	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta	1.8	pCi/L	U			1	E900.0	10/30/08 01:42/eli-ca
Gross Beta precision (±)	10.0	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Gross Beta MDC	16.8	pCi/L				1	E900.0	10/30/08 01:42/eli-ca
Lead 210	1.5	pCi/L	U			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	5.9	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.4	pCi/L	U			1	E909.0M	10/13/08 10:21/eli-c
Lead 210 precision (±)	5.6	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	10/13/08 10:21/eli-c
Polonium 210	0.0	pCi/L	U			1	RMO-3008	10/09/08 12:31/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1	RMO-3008	10/09/08 12:31/eli-c
Radium 226	-0.06	pCi/L	U			1	E903.0	10/09/08 09:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 09:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-008
 Client Sample ID: DewBurd GW3026

Report Date: 11/20/08
 Collection Date: 09/23/08 11:25
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.3	pCi/L		0.2		1	E907.0	09/30/08 15:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	09/30/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1820	pCi/L		100		1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	79.3	pCi/L				1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/03/08 17:31/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/03/08 17:31/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/03/08 17:31/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/03/08 17:31/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 22:29/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/03/08 17:31/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/03/08 17:31/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/03/08 17:31/eli-c
Iron	0.16	mg/L		0.03		2	E200.7	10/10/08 22:29/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/03/08 17:31/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	10/03/08 17:31/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/08/08 14:07/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/03/08 17:31/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/03/08 17:31/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/03/08 17:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/03/08 17:31/eli-c
Strontium	0.9	mg/L		0.1		1	E200.8	10/03/08 17:31/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/03/08 17:31/eli-c
Uranium	0.0029	mg/L		0.0003		1	E200.8	10/03/08 17:31/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/03/08 17:31/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.10	%				1	A1030 E	11/17/08 00:00/jmh
Anions	14.5	meq/L				1	A1030 E	11/17/08 00:00/jmh
Cations	13.9	meq/L				1	A1030 E	11/17/08 00:00/jmh
Solids, Total Dissolved Calculated	931	mg/L				1	A1030 E	11/17/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	11/17/08 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/20/08
 Collection Date: 09/23/08 15:10
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	10/02/08 14:36/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/02/08 14:36/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	10/02/08 14:36/mb
Calcium	ND	mg/L		0.5		2	E200.7	10/10/08 12:24/eli-c
Chloride	ND	mg/L		1		1	E300.0	09/25/08 19:18/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	09/25/08 19:18/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	10/10/08 12:24/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	09/30/08 14:23/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/25/08 19:18/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	09/25/08 19:18/jmh
Potassium	ND	mg/L		0.5		2	E200.7	10/10/08 12:24/eli-c
Sodium	ND	mg/L		2		2	E200.7	10/10/08 12:24/eli-c
Sulfate	ND	mg/L		1		1	E300.0	09/25/08 19:18/jmh
Silica	ND	mg/L		0.2		2	E200.7	10/10/08 12:24/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	09/25/08 10:48/tb
Oxidation-Reduction Potential	380	mV				1	A2580 B	09/25/08 00:00/jmh
pH	5.59	s.u.		0.01		1	A4500-H B	09/25/08 11:33/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	11/17/08 14:15/ADM
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C	09/30/08 13:58/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	10/10/08 12:24/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/02/08 05:31/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/02/08 05:31/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 12:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/02/08 05:31/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/02/08 05:31/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/02/08 05:31/eli-c
Iron	ND	mg/L		0.03		2	E200.7	10/10/08 12:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/02/08 05:31/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	10/02/08 05:31/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/02/08 05:31/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/02/08 05:31/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/02/08 05:31/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/02/08 16:26/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/02/08 05:31/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/20/08
 Collection Date: 09/23/08 15:10
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005	1	E200.8	10/02/08 05:31/eli-c
Uranium	ND	mg/L		0.0003	1	E200.8	10/02/08 05:31/eli-c
Vanadium	ND	mg/L		0.1	1	E200.8	10/02/08 05:31/eli-c
Zinc	ND	mg/L		0.01	1	E200.8	10/02/08 05:31/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003	1	E200.8	10/02/08 03:58/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001	1	A3114 B	10/02/08 11:54/eli-c
Selenium-VI	ND	mg/L		0.001	1	A3114 B	10/02/08 16:47/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	-0.8	pCi/L	U		1	E900.0	10/30/08 01:42/eli-c
Gross Alpha precision (±)	0.6	pCi/L			1	E900.0	10/30/08 01:42/eli-c
Gross Alpha MDC	1.2	pCi/L			1	E900.0	10/30/08 01:42/eli-c
Gross Beta	-3	pCi/L	U		1	E900.0	10/30/08 01:42/eli-c
Gross Beta precision (±)	1.4	pCi/L			1	E900.0	10/30/08 01:42/eli-c
Gross Beta MDC	2.5	pCi/L			1	E900.0	10/30/08 01:42/eli-c
Lead 210	-0.5	pCi/L	U		1	E909.0M	10/02/08 10:37/eli-c
Lead 210 precision (±)	5.3	pCi/L			1	E909.0M	10/02/08 10:37/eli-c
Lead 210 MDC	9.0	pCi/L			1	E909.0M	10/02/08 10:37/eli-c
Polonium 210	0.3	pCi/L	U	1.0	1	RMO-3008	10/02/08 14:54/eli-c
Polonium 210 precision (±)	0.99	pCi/L			1	RMO-3008	10/02/08 14:54/eli-c
Radium 226	-0.2	pCi/L	U		1	E903.0	10/21/08 08:28/eli-c
Radium 226 precision (±)	0.09	pCi/L			1	E903.0	10/21/08 08:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2	1	E907.0	10/27/08 15:37/eli-c
Thorium 230 precision (±)	0.05	pCi/L			1	E907.0	10/27/08 15:37/eli-c
Gross Gamma	0.0	pCi/L	U		1	E901.1	10/13/08 15:50/eli-c
Gross Gamma precision (±)	20	pCi/L			1	E901.1	10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	2.8	pCi/L	U		1	E909.0M	10/13/08 10:21/eli-c
Lead 210 precision (±)	5.5	pCi/L			1	E909.0M	10/13/08 10:21/eli-c
Lead 210 MDC	9.2	pCi/L			1	E909.0M	10/13/08 10:21/eli-c
Polonium 210	-0.079	pCi/L	U		1	RMO-3008	10/09/08 12:31/eli-c
Polonium 210 precision (±)	0.32	pCi/L			1	RMO-3008	10/09/08 12:31/eli-c
Radium 226	-0.2	pCi/L	U		1	E903.0	10/09/08 09:28/eli-c
Radium 226 precision (±)	0.2	pCi/L			1	E903.0	10/09/08 09:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08090356-009
 Client Sample ID: DewBurd BLK01

Report Date: 11/20/08
 Collection Date: 09/23/08 15:10
 Date Received: 09/24/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	10/09/08 09:28/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	09/30/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	09/30/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	124	pCi/L		100		1	D5072-92	09/26/08 15:10/eli-c
Radon 222 precision (±)	57.3	pCi/L				1	D5072-92	09/26/08 15:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/03/08 18:05/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/03/08 18:05/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/03/08 18:05/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/03/08 18:05/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/10/08 22:33/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/03/08 18:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/03/08 18:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/03/08 18:05/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	10/10/08 22:33/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/03/08 18:05/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	10/03/08 18:05/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	09/29/08 12:41/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/03/08 18:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/03/08 18:05/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/03/08 18:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/03/08 18:05/eli-c
Strontium	ND	mg/L		0.1		1	E200.8	10/03/08 18:05/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/03/08 18:05/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/03/08 18:05/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/03/08 18:05/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 081002A-ALK-SEL-W		
Sample ID: LCS1_081002A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			Run: PH_COND1-R_081003B 10/02/08 12:07
Sample ID: MBLK1_081002A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_081003B 10/02/08 12:08
Sample ID: R08090356-002AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 282	mg/L	5.0	102	80	120			Run: PH_COND1-R_081003B 10/02/08 14:17
Sample ID: R08090356-002AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 280	mg/L	5.0	100	80	120	0.7	10	Run: PH_COND1-R_081003B 10/02/08 14:19
Sample ID: R08090361-003AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 244	mg/L	5.0	89	80	120			Run: PH_COND1-R_081003B 10/02/08 14:55
Sample ID: R08090361-003AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 246	mg/L	5.0	91	80	120	0.8	10	Run: PH_COND1-R_081003B 10/02/08 14:59
Method: A2510 B							Batch: 080925_1_COND-PROBE-W		
Sample ID: LCS_COND-1_080925 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_080925A 09/25/08 10:00
Sample ID: LCS1-1_080925 Conductivity @ 25 C	Laboratory Control Sample 147	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_080925A 09/25/08 10:02
Sample ID: LCS2-1_080925 Conductivity @ 25 C	Laboratory Control Sample 4930	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_080925A 09/25/08 10:04
Sample ID: MBLK-1_080925 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_080925A 09/25/08 10:06
Sample ID: R08090356-009ADUP Conductivity @ 25 C	Sample Duplicate ND	umhos/cm	5.0				0	10	Run: PH_COND2-R_080925A 09/25/08 10:50

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 080930A-SLDS-TDS-W		
Sample ID: LCS1_080930A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	98	90	110			10/01/08 10:12
Sample ID: MBLK1_080930A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						09/30/08 13:38
Sample ID: R08090343-006AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	890	mg/L	5.0	102	80	120			09/30/08 13:50
Sample ID: R08090343-006AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	870	mg/L	5.0	91	80	120	2.5	10	09/30/08 13:50
Sample ID: R08090356-007AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	2500	mg/L	5.0	105	80	120			09/30/08 13:56
Sample ID: R08090356-007AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	2400	mg/L	5.0	62	80	120	3.5	10	09/30/08 13:56 S
Method: A2580 B							Batch: 080925-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample								
Oxidation-Reduction Potential	480	mV		101	95	105			09/25/08 00:00
Sample ID: R08090356-009F	Sample Duplicate								
Oxidation-Reduction Potential	380	mV					1.5	10	09/25/08 00:00
Method: A3114 B							Batch: C_SE3114-081002B		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	0.0003						10/02/08 10:59
Sample ID: 288-142-5	Laboratory Control Sample								
Selenium-IV	0.051	mg/L	0.0010	102	90	110			10/02/08 11:03
Sample ID: R08090356-006E	Sample Matrix Spike								
Selenium-IV	0.053	mg/L	0.0010	106	85	115			10/02/08 11:45
Sample ID: R08090356-006E	Sample Matrix Spike Duplicate								
Selenium-IV	0.053	mg/L	0.0010	106	85	115	0.2	10	10/02/08 11:47

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-081002D		
Sample ID: MBLK	Method Blank								Run: SUB-C108610 10/02/08 15:23
Selenium	ND	mg/L	0.0003						
Sample ID: 288-142-5	Laboratory Control Sample								Run: SUB-C108610 10/02/08 15:26
Selenium	0.052	mg/L	0.0010	103	90	110			
Sample ID: R08090356-006E	Sample Matrix Spike								Run: SUB-C108610 10/02/08 16:16
Selenium	0.050	mg/L	0.0010	100	85	115			
Sample ID: R08090356-006E	Sample Matrix Spike Duplicate								Run: SUB-C108610 10/02/08 16:19
Selenium	0.050	mg/L	0.0010	100	85	115	0.7	15	
Method: A4500-H B							Batch: 080925_1_PH-W		
Sample ID: LCS_pH-1_080925	Laboratory Control Sample								Run: PH_COND2-R_080925B 09/25/08 11:06
pH	6.80	s.u.	0.010	99	98.55	101.45			
Sample ID: R08090356-005ADUP	Sample Duplicate								Run: PH_COND2-R_080925B 09/25/08 11:23
pH	7.64	s.u.	0.010				0.1	1.25	
Sample ID: R08090356-009ADUP	Sample Duplicate								Run: PH_COND2-R_080925B 09/25/08 11:35
pH	5.57	s.u.	0.010				0.4	1.25	
Method: A4500-NH3 G							Batch: A2008-09-30_2_NH3_01		
Sample ID: MBLK-2	Method Blank								Run: TECHAA2-R_080930A 09/30/08 10:18
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank								Run: TECHAA2-R_080930A 09/30/08 10:20
Nitrogen, Ammonia as N	0.26	mg/L	0.10	105	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank								Run: TECHAA2-R_080930A 09/30/08 10:21
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	90	110			
Sample ID: R08090343-006CMS	Sample Matrix Spike								Run: TECHAA2-R_080930A 09/30/08 14:05
Nitrogen, Ammonia as N	0.28	mg/L	0.10	113	80	120			
Sample ID: R08090343-006CMSD	Sample Matrix Spike Duplicate								Run: TECHAA2-R_080930A 09/30/08 14:06
Nitrogen, Ammonia as N	0.29	mg/L	0.10	114	80	120	1.4	10	
Sample ID: R08090356-006BMS	Sample Matrix Spike								Run: TECHAA2-R_080930A 09/30/08 14:19
Nitrogen, Ammonia as N	0.59	mg/L	0.10	83	80	120			
Sample ID: R08090356-006BMSD	Sample Matrix Spike Duplicate								Run: TECHAA2-R_080930A 09/30/08 14:20
Nitrogen, Ammonia as N	0.61	mg/L	0.10	91	80	120	3.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Project: Edgemont

Report Date: 11/20/08

Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92							Batch: C_R108612		
Sample ID: R08090356-009G	Sample Duplicate					Run: SUB-C108612		09/26/08 15:10	
Radon 222	165	pCi/L	100				28	30	
Sample ID: R08090356-001G	Sample Duplicate					Run: SUB-C108612		09/26/08 15:10	
Radon 222	1870	pCi/L	100				20	30	
Sample ID: MB-R108612	Method Blank					Run: SUB-C108612		09/26/08 15:10	
Radon 222	40	pCi/L							
Sample ID: LCS-R108612	Laboratory Control Sample					Run: SUB-C108612		09/26/08 15:10	
Radon 222	301	pCi/L	100	84	70	130			
Method: E200.7							Batch: C_19936		
Sample ID: MB-19936	Method Blank					Run: SUB-C108653		10/02/08 20:10	
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-19936	Laboratory Control Sample					Run: SUB-C108653		10/02/08 20:14	
Boron	0.492	mg/L	0.10	98	85	115			
Iron	2.66	mg/L	0.030	106	85	115			
Sample ID: C08091126-006BMS3	Sample Matrix Spike					Run: SUB-C108653		10/02/08 21:40	
Boron	0.599	mg/L	0.10	104	70	130			
Iron	4.98	mg/L	0.030	117	70	130			
Sample ID: C08091126-006BMSD3	Sample Matrix Spike Duplicate					Run: SUB-C108653		10/02/08 21:44	
Boron	0.530	mg/L	0.10	90	70	130	12	20	
Iron	4.30	mg/L	0.030	90	70	130	15	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R109094		
Sample ID: MB-081009A	Method Blank			Run: SUB-C109094			10/10/08 11:19		
Aluminum	ND	mg/L	0.004						
Boron	ND	mg/L	0.008						
Iron	ND	mg/L	0.005						
Silicon	0.01	mg/L							
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Silica	0.03	mg/L							
Sample ID: LFB-081009A	Laboratory Fortified Blank			Run: SUB-C109094			10/10/08 11:23		
Aluminum	0.967	mg/L	0.10	97	85	115			
Boron	0.966	mg/L	0.10	97	85	115			
Iron	1.05	mg/L	0.030	105	85	115			
Silicon	0.349	mg/L		87	85	115			
Calcium	51.9	mg/L	0.50	104	85	115			
Magnesium	51.8	mg/L	0.50	104	85	115			
Potassium	45.0	mg/L	0.50	90	85	115			
Sodium	49.4	mg/L	0.77	99	85	115			
Silica	0.747	mg/L		87	85	115			
Sample ID: R08090356-005D	Sample Matrix Spike			Run: SUB-C109094			10/10/08 22:09		
Aluminum	1.86	mg/L	0.10	93	70	130			
Boron	1.97	mg/L	0.10	95	70	130			
Iron	2.23	mg/L	0.030	102	70	130			
Silicon	4.98	mg/L	0.10		70	130			A
Calcium	193	mg/L	1.0	96	70	130			
Magnesium	146	mg/L	1.0	108	70	130			
Sodium	251	mg/L	1.1	92	70	130			
Silica	10.7	mg/L	0.21		70	130			A
Sample ID: R08090356-005D	Sample Matrix Spike Duplicate			Run: SUB-C109094			10/10/08 22:13		
Aluminum	1.84	mg/L	0.10	92	70	130	1.1	20	
Boron	2.00	mg/L	0.10	96	70	130	1.3	20	
Iron	2.26	mg/L	0.030	104	70	130	1.3	20	
Silicon	5.06	mg/L	0.10		70	130	1.6	20	A
Calcium	198	mg/L	1.0	100	70	130	2.3	20	
Magnesium	149	mg/L	1.0	111	70	130	1.7	20	
Sodium	249	mg/L	1.1	90	70	130	0.7	20	
Silica	10.8	mg/L	0.21		70	130	1.6	20	A
Sample ID: C08100102-002BMS2	Sample Matrix Spike			Run: SUB-C109094			10/11/08 01:19		
Aluminum	1.89	mg/L	0.10	95	70	130			
Boron	2.00	mg/L	0.10	97	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R109094		
Sample ID: C08100102-002BMS2	Sample Matrix Spike			Run: SUB-C109094			10/11/08 01:19		
Iron	2.09	mg/L	0.030	103	70	130			
Silicon	9.50	mg/L	0.10		70	130			A
Calcium	154	mg/L	1.0	105	70	130			
Magnesium	116	mg/L	1.0	104	70	130			
Potassium	94.4	mg/L	1.0	93	70	130			
Sodium	229	mg/L	1.1	103	70	130			
Silica	20.3	mg/L	0.21		70	130			A
Sample ID: C08100102-002BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C109094			10/11/08 01:23		
Aluminum	1.96	mg/L	0.10	98	70	130	3.5	20	
Boron	2.03	mg/L	0.10	98	70	130	1.3	20	
Iron	2.15	mg/L	0.030	106	70	130	2.9	20	
Silicon	9.63	mg/L	0.10		70	130	1.3	20	A
Calcium	154	mg/L	1.0	104	70	130	0.4	20	
Magnesium	116	mg/L	1.0	105	70	130	0.2	20	
Potassium	94.6	mg/L	1.0	93	70	130	0.2	20	
Sodium	226	mg/L	1.1	100	70	130	1.3	20	
Silica	20.6	mg/L	0.21		70	130	1.3	20	A
Method: E200.8							Batch: C_19926		
Sample ID: MB-19926	Method Blank			Run: SUB-C108564			10/02/08 03:18		
Uranium	0.0008	mg/L							
Sample ID: LCS1-19926	Laboratory Control Sample			Run: SUB-C108564			10/02/08 03:38		
Uranium	0.0554	mg/L	0.00030	104	80	120			
Sample ID: R08090356-009I	Post Digestion Spike			Run: SUB-C108564			10/02/08 04:02		
Uranium	0.0120	mg/L	0.00030	96	70	130			
Sample ID: R08090356-009I	Post Digestion Spike Duplicate			Run: SUB-C108564			10/02/08 04:06		
Uranium	0.0121	mg/L	0.00030	96	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19936		
Sample ID: MB-19936	Method Blank		Run: SUB-C108648			10/03/08 04:45			
Antimony	0.0004	mg/L	0.0002						
Arsenic	0.004	mg/L	0.001						
Barium	ND	mg/L	4E-05						
Beryllium	ND	mg/L	0.0002						
Cadmium	ND	mg/L	4E-05						
Chromium	0.001	mg/L	0.0007						
Copper	ND	mg/L	0.002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	0.0001						
Molybdenum	ND	mg/L	0.004						
Nickel	ND	mg/L	0.0003						
Selenium	ND	mg/L	0.0005						
Silver	ND	mg/L	0.0005						
Strontium	ND	mg/L	5E-05						
Thallium	ND	mg/L	4E-05						
Uranium	ND	mg/L	5E-05						
Zinc	0.002	mg/L	0.0005						
Sample ID: LCS3-19936	Laboratory Control Sample		Run: SUB-C108648			10/03/08 04:51			
Antimony	0.520	mg/L	0.050	104	85	115			
Arsenic	0.506	mg/L	0.011	100	85	115			
Barium	0.506	mg/L	0.10	101	85	115			
Beryllium	0.244	mg/L	0.010	98	85	115			
Cadmium	0.261	mg/L	0.010	105	85	115			
Chromium	0.493	mg/L	0.050	98	85	115			
Copper	0.504	mg/L	0.021	101	85	115			
Lead	0.491	mg/L	0.050	98	85	115			
Manganese	2.50	mg/L	0.010	100	85	115			
Molybdenum	0.477	mg/L	0.10	95	85	115			
Nickel	0.493	mg/L	0.050	99	85	115			
Selenium	0.517	mg/L	0.0049	103	85	115			
Silver	0.0421	mg/L	0.010	84	85	115			S
Strontium	0.506	mg/L	0.10	101	85	115			
Thallium	0.486	mg/L	0.10	97	85	115			
Uranium	0.524	mg/L	0.00049	105	85	115			
Zinc	0.563	mg/L	0.010	112	85	115			
Sample ID: C08091126-006BMS3	Sample Matrix Spike		Run: SUB-C108648			10/03/08 06:54			
Antimony	0.520	mg/L	0.050	104	70	130			
Arsenic	0.512	mg/L	0.011	102	70	130			
Barium	0.544	mg/L	0.10	101	70	130			
Beryllium	0.239	mg/L	0.010	96	70	130			
Cadmium	0.259	mg/L	0.010	104	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_19936		
Sample ID: C08091126-006BMS3	Sample Matrix Spike		Run: SUB-C108648				10/03/08 06:54		
Chromium	0.489	mg/L	0.050	98	70	130			
Copper	0.497	mg/L	0.021	99	70	130			
Lead	0.496	mg/L	0.050	99	70	130			
Manganese	3.35	mg/L	0.010	111	70	130			
Molybdenum	0.490	mg/L	0.10	98	70	130			
Nickel	0.495	mg/L	0.050	98	70	130			
Selenium	0.504	mg/L	0.0049	101	70	130			
Silver	0.0422	mg/L	0.010	84	70	130			
Strontium	1.11	mg/L	0.10	108	70	130			
Thallium	0.490	mg/L	0.10	98	70	130			
Uranium	0.678	mg/L	0.00049	108	70	130			
Zinc	0.550	mg/L	0.010	97	70	130			
Sample ID: C08091126-006BMSD3	Sample Matrix Spike Duplicate		Run: SUB-C108648				10/03/08 07:00		
Antimony	0.451	mg/L	0.050	90	70	130	14	20	
Arsenic	0.444	mg/L	0.011	89	70	130	14	20	
Barium	0.465	mg/L	0.10	85	70	130	16	20	
Beryllium	0.202	mg/L	0.010	81	70	130	17	20	
Cadmium	0.226	mg/L	0.010	90	70	130	14	20	
Chromium	0.418	mg/L	0.050	84	70	130	16	20	
Copper	0.427	mg/L	0.021	85	70	130	15	20	
Lead	0.429	mg/L	0.050	86	70	130	14	20	
Manganese	2.64	mg/L	0.010	83	70	130	24	20	R
Molybdenum	0.425	mg/L	0.10	85	70	130	14	20	
Nickel	0.429	mg/L	0.050	85	70	130	14	20	
Selenium	0.443	mg/L	0.0049	89	70	130	13	20	
Silver	0.0398	mg/L	0.010	80	70	130	5.7	20	
Strontium	0.953	mg/L	0.10	77	70	130	15	20	
Thallium	0.434	mg/L	0.10	87	70	130	12	20	
Uranium	0.577	mg/L	0.00049	88	70	130	16	20	
Zinc	0.480	mg/L	0.010	83	70	130	14	20	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108490		
Sample ID: LRB	Method Blank			Run: SUB-C108490		09/30/08 12:20			
Uranium	2E-06	mg/L	2E-06						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C108490		09/30/08 12:24			
Uranium	0.0495	mg/L	0.00030	99	85	115			
Sample ID: C08090557-005AMS	Sample Matrix Spike			Run: SUB-C108490		09/30/08 18:49			
Uranium	0.046	mg/L	0.00030	93	70	130			
Sample ID: C08090557-005AMSD	Sample Matrix Spike Duplicate			Run: SUB-C108490		09/30/08 18:53			
Uranium	0.047	mg/L	0.00030	93	70	130	0.7	20	
Sample ID: C08091148-031AMS2	Sample Matrix Spike			Run: SUB-C108490		09/30/08 22:17			
Uranium	0.024	mg/L	0.0050	76	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108572		
Sample ID: LRB	Method Blank		Run: SUB-C108572				10/01/08 12:40		
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	0.0002	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	3E-05	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C108572				10/01/08 12:46		
Arsenic	0.0495	mg/L	0.0010	99	85	115			
Barium	0.0504	mg/L	0.0010	101	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Chromium	0.0499	mg/L	0.0010	100	85	115			
Copper	0.0500	mg/L	0.0010	100	85	115			
Lead	0.0508	mg/L	0.0010	102	85	115			
Manganese	0.0501	mg/L	0.0010	100	85	115			
Mercury	0.00514	mg/L	0.0010	103	85	115			
Molybdenum	0.0506	mg/L	0.0010	101	85	115			
Nickel	0.0496	mg/L	0.0010	99	85	115			
Silver	0.0202	mg/L	0.0010	101	85	115			
Thorium 232	0.0500	mg/L	0.0010	100	85	115			
Uranium	0.0500	mg/L	0.00030	100	85	115			
Vanadium	0.0499	mg/L	0.0010	100	85	115			
Zinc	0.0506	mg/L	0.0010	99	85	115			
Sample ID: C08091067-004BMS4	Post Digestion Spike		Run: SUB-C108572				10/02/08 03:22		
Arsenic	0.0504	mg/L	0.0010	100	70	130			
Barium	0.0987	mg/L	0.10	102	70	130			
Cadmium	0.0480	mg/L	0.010	95	70	130			
Chromium	0.0445	mg/L	0.050	89	70	130			
Copper	0.0496	mg/L	0.010	94	70	130			
Lead	0.0507	mg/L	0.050	99	70	130			
Manganese	0.0461	mg/L	0.010	88	70	130			
Mercury	0.00503	mg/L	0.0010	101	70	130			
Molybdenum	0.0523	mg/L	0.10	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108572		
Sample ID: C08091067-004BMS4	Post Digestion Spike			Run: SUB-C108572			10/02/08 03:22		
Nickel	0.0479	mg/L	0.050	92	70	130			
Silver	0.0134	mg/L	0.010	67	70	130			S
Thorium 232	0.0515	mg/L	0.0010	103	70	130			
Uranium	0.0695	mg/L	0.00030	105	70	130			
Vanadium	0.0463	mg/L	0.10	91	70	130			
Zinc	0.0611	mg/L	0.010	98	70	130			
Sample ID: C08091067-004BMSD4	Post Digestion Spike Duplicate			Run: SUB-C108572			10/02/08 03:56		
Arsenic	0.0500	mg/L	0.0010	99	70	130	1	20	
Barium	0.0983	mg/L	0.10	101	70	130	0	20	
Cadmium	0.0481	mg/L	0.010	95	70	130	0.1	20	
Chromium	0.0452	mg/L	0.050	90	70	130	0	20	
Copper	0.0488	mg/L	0.010	92	70	130	1.6	20	
Lead	0.0486	mg/L	0.050	95	70	130	0	20	
Manganese	0.0463	mg/L	0.010	88	70	130	0.5	20	
Mercury	0.00484	mg/L	0.0010	97	70	130	3.9	20	
Molybdenum	0.0518	mg/L	0.10	101	70	130	0	20	
Nickel	0.0481	mg/L	0.050	92	70	130	0	20	
Silver	0.0140	mg/L	0.010	70	70	130	3.8	20	
Thorium 232	0.0497	mg/L	0.0010	99	70	130	3.4	20	
Uranium	0.0675	mg/L	0.00030	101	70	130	2.8	20	
Vanadium	0.0466	mg/L	0.10	92	70	130	0	20	
Zinc	0.0587	mg/L	0.010	94	70	130	4	20	
Sample ID: R08090356-009C	Post Digestion Spike			Run: SUB-C108572			10/02/08 05:38		
Arsenic	0.0488	mg/L	0.0010	98	70	130			
Barium	0.0462	mg/L	0.10	92	70	130			
Cadmium	0.0483	mg/L	0.010	96	70	130			
Chromium	0.0454	mg/L	0.050	90	70	130			
Copper	0.0483	mg/L	0.010	97	70	130			
Lead	0.0475	mg/L	0.050	95	70	130			
Manganese	0.0458	mg/L	0.010	91	70	130			
Mercury	0.00473	mg/L	0.0010	95	70	130			
Molybdenum	0.0480	mg/L	0.10	96	70	130			
Nickel	0.0484	mg/L	0.050	97	70	130			
Silver	0.0156	mg/L	0.010	78	70	130			
Thorium 232	0.0470	mg/L	0.0010	94	70	130			
Uranium	0.0480	mg/L	0.00030	96	70	130			
Vanadium	0.0452	mg/L	0.10	90	70	130			
Zinc	0.0511	mg/L	0.010	101	70	130			
Sample ID: R08090356-009C	Post Digestion Spike Duplicate			Run: SUB-C108572			10/02/08 05:45		
Arsenic	0.0495	mg/L	0.0010	99	70	130	1.5	20	
Barium	0.0459	mg/L	0.10	92	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108572		
Sample ID: R08090356-009C	Post Digestion Spike Duplicate			Run: SUB-C108572			10/02/08 05:45		
Cadmium	0.0486	mg/L	0.010	97	70	130	0.7	20	
Chromium	0.0458	mg/L	0.050	91	70	130	0	20	
Copper	0.0499	mg/L	0.010	100	70	130	3.3	20	
Lead	0.0480	mg/L	0.050	96	70	130	0	20	
Manganese	0.0463	mg/L	0.010	92	70	130	1.1	20	
Mercury	0.00487	mg/L	0.0010	97	70	130	2.9	20	
Molybdenum	0.0474	mg/L	0.10	95	70	130	0	20	
Nickel	0.0492	mg/L	0.050	98	70	130	0	20	
Silver	0.0137	mg/L	0.010	68	70	130	13	20	S
Thorium 232	0.0474	mg/L	0.0010	95	70	130	0.8	20	
Uranium	0.0480	mg/L	0.00030	96	70	130	0.1	20	
Vanadium	0.0454	mg/L	0.10	91	70	130	0	20	
Zinc	0.0525	mg/L	0.010	103	70	130	2.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108712		
Sample ID: LRB	Method Blank		Run: SUB-C108712				10/03/08 13:41		
Antimony	ND	mg/L		7E-05					
Arsenic	ND	mg/L		6E-05					
Barium	ND	mg/L		3E-05					
Beryllium	ND	mg/L		3E-05					
Cadmium	ND	mg/L		1E-05					
Chromium	5E-05	mg/L		4E-05					
Copper	ND	mg/L		7E-05					
Lead	ND	mg/L		3E-05					
Manganese	ND	mg/L		5E-05					
Molybdenum	ND	mg/L		5E-05					
Nickel	ND	mg/L		0.0007					
Selenium	ND	mg/L		0.0002					
Silver	ND	mg/L		3E-05					
Strontium	ND	mg/L		3E-05					
Thallium	ND	mg/L		1E-05					
Uranium	ND	mg/L		1E-05					
Zinc	ND	mg/L		0.0003					
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C108712				10/03/08 13:48		
Antimony	0.0493	mg/L	0.0010	99	85	115			
Arsenic	0.0500	mg/L	0.0010	100	85	115			
Barium	0.0500	mg/L	0.0010	100	85	115			
Beryllium	0.0484	mg/L	0.0010	97	85	115			
Cadmium	0.0504	mg/L	0.0010	101	85	115			
Chromium	0.0493	mg/L	0.0010	98	85	115			
Copper	0.0520	mg/L	0.0010	104	85	115			
Lead	0.0496	mg/L	0.0010	99	85	115			
Manganese	0.0492	mg/L	0.0010	98	85	115			
Molybdenum	0.0510	mg/L	0.0010	102	85	115			
Nickel	0.0506	mg/L	0.0010	101	85	115			
Selenium	0.0498	mg/L	0.0010	100	85	115			
Silver	0.0203	mg/L	0.0010	101	85	115			
Strontium	0.0503	mg/L	0.0010	100	85	115			
Thallium	0.0498	mg/L	0.0010	100	85	115			
Uranium	0.0500	mg/L	0.00030	100	85	115			
Zinc	0.0530	mg/L	0.0010	106	85	115			
Sample ID: R08090356-009D	Post Digestion Spike		Run: SUB-C108712				10/03/08 18:12		
Antimony	0.0527	mg/L	0.050	105	70	130			
Arsenic	0.0494	mg/L	0.0010	99	70	130			
Barium	0.0485	mg/L	0.10	97	70	130			
Beryllium	0.0459	mg/L	0.010	92	70	130			
Cadmium	0.0490	mg/L	0.010	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108712		
Sample ID: R08090356-009D	Post Digestion Spike			Run: SUB-C108712			10/03/08 18:12		
Chromium	0.0485	mg/L	0.050	96	70	130			
Copper	0.0489	mg/L	0.010	98	70	130			
Lead	0.0489	mg/L	0.050	98	70	130			
Manganese	0.0490	mg/L	0.010	97	70	130			
Molybdenum	0.0499	mg/L	0.10	100	70	130			
Nickel	0.0484	mg/L	0.050	97	70	130			
Selenium	0.0488	mg/L	0.0010	98	70	130			
Silver	0.0133	mg/L	0.010	66	70	130			S
Strontium	0.0506	mg/L	0.10	101	70	130			
Thallium	0.0491	mg/L	0.10	98	70	130			
Uranium	0.0498	mg/L	0.00030	100	70	130			
Zinc	0.0508	mg/L	0.010	99	70	130			
Sample ID: R08090356-009D	Post Digestion Spike Duplicate			Run: SUB-C108712			10/03/08 18:18		
Antimony	0.0538	mg/L	0.050	108	70	130	2.1	20	
Arsenic	0.0495	mg/L	0.0010	99	70	130	0.2	20	
Barium	0.0491	mg/L	0.10	98	70	130	0	20	
Beryllium	0.0462	mg/L	0.010	92	70	130	0.8	20	
Cadmium	0.0491	mg/L	0.010	98	70	130	0.3	20	
Chromium	0.0496	mg/L	0.050	98	70	130	0	20	
Copper	0.0493	mg/L	0.010	99	70	130	0.7	20	
Lead	0.0495	mg/L	0.050	99	70	130	0	20	
Manganese	0.0502	mg/L	0.010	99	70	130	2.3	20	
Molybdenum	0.0506	mg/L	0.10	101	70	130	0	20	
Nickel	0.0485	mg/L	0.050	97	70	130	0	20	
Selenium	0.0505	mg/L	0.0010	101	70	130	3.5	20	
Silver	0.0137	mg/L	0.010	69	70	130	3.4	20	S
Strontium	0.0506	mg/L	0.10	101	70	130	0	20	
Thallium	0.0498	mg/L	0.10	100	70	130	0	20	
Uranium	0.0499	mg/L	0.00030	100	70	130	0.2	20	
Zinc	0.0512	mg/L	0.010	100	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_34943		
Sample ID: MB-34943	Method Blank								Run: SUB-B118320 09/29/08 11:38
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-34943	Laboratory Fortified Blank								Run: SUB-B118320 09/29/08 11:48
Mercury	0.0021	mg/L	0.0010	104	85	115			
Sample ID: B08092540-004FMS	Sample Matrix Spike								Run: SUB-B118320 09/29/08 12:00
Mercury	0.0023	mg/L	0.0010	114	70	130			
Sample ID: B08092540-004FMSD	Sample Matrix Spike Duplicate								Run: SUB-B118320 09/29/08 12:02
Mercury	0.0022	mg/L	0.0010	112	70	130	1.3	30	
Sample ID: R08090356-006D	Sample Matrix Spike								Run: SUB-B118320 09/29/08 12:32
Mercury	0.0019	mg/L	0.0010	94	70	130			
Sample ID: R08090356-006D	Sample Matrix Spike Duplicate								Run: SUB-B118320 09/29/08 12:34
Mercury	0.0022	mg/L	0.0010	110	70	130	16	30	
Method: E245.1							Batch: B_35111		
Sample ID: MB-35111	Method Blank								Run: SUB-B118836 10/08/08 13:44
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-35111	Laboratory Fortified Blank								Run: SUB-B118836 10/08/08 13:53
Mercury	0.0019	mg/L	0.0010	96	85	115			
Sample ID: B08100331-001CMS	Sample Matrix Spike								Run: SUB-B118836 10/08/08 14:01
Mercury	0.00191	mg/L	0.0010	96	70	130			
Sample ID: B08100331-001CMSD	Sample Matrix Spike Duplicate								Run: SUB-B118836 10/08/08 14:03
Mercury	0.00193	mg/L	0.0010	97	70	130	1	30	
Method: E245.1							Analytical Run: SUB-B118320		
Sample ID: QCS	Initial Calibration Verification Standard								09/29/08 09:22
Mercury	0.0018	mg/L	0.0010	92	90	110			
Method: E245.1							Analytical Run: SUB-B118836		
Sample ID: QCS	Initial Calibration Verification Standard								10/08/08 13:35
Mercury	0.0019	mg/L	0.0010	94	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 11/20/08

Project: Edgemont

Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R37676		
Sample ID: LFB0809250635-3	Laboratory Fortified Blank			Run: DIONEX_080925A			09/25/08 12:11		
Chloride	4.94	mg/L	0.50	99	90	110			
Fluoride	2.07	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.40	mg/L	0.10	96	90	110			
Nitrogen, Nitrite as N	2.51	mg/L	0.10	100	90	110			
Sulfate	14.9	mg/L	1.0	99	90	110			
Sample ID: LFB0809250635-4	Laboratory Fortified Blank			Run: DIONEX_080925A			09/25/08 12:28		
Chloride	4.83	mg/L	0.50	97	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N	2.44	mg/L	0.10	98	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: R08090356-001AMS	Sample Matrix Spike			Run: DIONEX_080925A			09/25/08 13:00		
Chloride	253	mg/L	5.4	92	80	120			
Fluoride	104	mg/L	0.56	98	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120			
Sulfate	1070	mg/L	3.4	95	80	120			
Sample ID: R08090356-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080925A			09/25/08 13:17		
Chloride	243	mg/L	5.4	88	80	120	4.1	10	
Fluoride	100	mg/L	0.56	93	80	120	4.2	10	
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120	4.6	10	
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120	4.7	10	
Sulfate	1050	mg/L	3.4	91	80	120	2.5	10	
Sample ID: R08090356-005AMS	Sample Matrix Spike			Run: DIONEX_080925A			09/25/08 16:17		
Chloride	259	mg/L	5.4	92	80	120			
Fluoride	105	mg/L	0.56	98	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120			
Sulfate	1210	mg/L	3.4	90	80	120			
Sample ID: R08090356-005AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_080925A			09/25/08 16:34		
Chloride	250	mg/L	5.4	88	80	120	3.7	10	
Fluoride	102	mg/L	0.56	95	80	120	2.9	10	
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120	3.4	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120	2.9	10	
Sulfate	1180	mg/L	3.4	87	80	120	2.3	10	
Sample ID: R08090331-001AMS	Sample Matrix Spike			Run: DIONEX_080925A			09/25/08 19:51		
Chloride	316	mg/L	5.4	92	80	120			
Fluoride	102	mg/L	0.56	96	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Project: Edgemont

Report Date: 11/20/08

Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R37676		
Sample ID: R08090331-001AMS	Sample Matrix Spike				Run: DIONEX_080925A		09/25/08 19:51		
Nitrogen, Nitrate as N	301	mg/L	1.3	110	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sulfate	10200	mg/L	3.4		80	120			A
Sample ID: R08090331-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080925A		09/25/08 20:07		
Chloride	307	mg/L	5.4	88	80	120	3	10	
Fluoride	99.8	mg/L	0.56	94	80	120	2.7	10	
Nitrogen, Nitrate as N	289	mg/L	1.3	101	80	120	3.9	10	
Nitrogen, Nitrite as N	121	mg/L	2.9	97	80	120	3	10	
Sulfate	9720	mg/L	3.4		80	120	4.5	10	A
Method: E300.0							Batch: R37751		
Sample ID: LFB0809262754-3	Laboratory Fortified Blank				Run: DIONEX_080926A		09/26/08 18:29		
Sulfate	14.8	mg/L	1.0	99	90	110			
Sample ID: LFB0809262754-4	Laboratory Fortified Blank				Run: DIONEX_080926A		09/26/08 18:45		
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: R08090360-006BMS	Sample Matrix Spike				Run: DIONEX_080926A		09/26/08 22:35		
Sulfate	735	mg/L	1.3	89	80	120			
Sample ID: R08090360-006BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080926A		09/26/08 22:51		
Sulfate	736	mg/L	1.3	89	80	120	0.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0547		
Sample ID: MB-GrAB-0547	Method Blank				Run: SUB-C110134				10/30/08 01:42
Gross Alpha	0.1	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0547	Laboratory Control Sample				Run: SUB-C110134				10/30/08 01:42
Gross Alpha	150	pCi/L		108	70	130			
Sample ID: Cs137-GrAB-0547	Laboratory Control Sample				Run: SUB-C110134				10/30/08 01:42
Gross Beta	88	pCi/L		96	70	130			
Sample ID: C08091239-001BMS	Sample Matrix Spike				Run: SUB-C110134				10/31/08 07:50
Gross Alpha	151	pCi/L		106	70	130			
Sample ID: C08091239-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C110134				10/31/08 07:50
Gross Alpha	146	pCi/L		103	70	130	3	17.5	
Sample ID: C08091239-001BMS	Sample Matrix Spike				Run: SUB-C110134				10/31/08 07:50
Gross Beta	87.8	pCi/L		94	70	130			
Sample ID: C08091239-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C110134				10/31/08 07:50
Gross Beta	77.8	pCi/L		83	70	130	12	16.4	
Method: E901.1							Batch: C_R109497		
Sample ID: MB-R109497	Method Blank				Run: SUB-C109497				10/13/08 15:50
Gross Gamma		pCi/L							
Sample ID: LCS-R109497	Laboratory Control Sample				Run: SUB-C109497				10/13/08 15:50
Cesium 137	46000	pCi/L	20	106	70	130			
Cobalt 60	32000	pCi/L	20	102	70	130			
Sample ID: R08090356-007H	Sample Duplicate				Run: SUB-C109497				10/13/08 15:50
Gross Gamma	960	pCi/L					0.2	30	
Method: E903.0							Batch: C_R109056		
Sample ID: C08090526-001AMS	Sample Matrix Spike				Run: SUB-C109056				10/09/08 12:39
Radium 226	9.0	pCi/g-dry		80	70	130			
Sample ID: C08090526-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C109056				10/09/08 12:39
Radium 226	8.8	pCi/g-dry		82	70	130	1.5	20.9	
Sample ID: LCS-19954	Laboratory Control Sample				Run: SUB-C109056				10/09/08 12:39
Radium 226	0.015	pCi/g-dry		95	70	130			
Sample ID: MB-19954	Method Blank				Run: SUB-C109056				10/09/08 12:39
Radium 226	0.0001	pCi/g-dry							U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-3147		
Sample ID: C08091069-001DMS	Sample Matrix Spike				Run: SUB-C109588		10/21/08 10:02		
Radium 226	20	pCi/L	125	70	130				
Sample ID: C08091069-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C109588		10/21/08 10:02		
Radium 226	23	pCi/L	145	70	130	14	24.4	S	
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: MB-RA226-3147	Method Blank				Run: SUB-C109588		10/21/08 11:39		
Radium 226	-0.2	pCi/L							U
Sample ID: LCS-RA226-3147	Laboratory Control Sample				Run: SUB-C109588		10/21/08 11:39		
Radium 226	10.0	pCi/L	129	70	130				
Method: E907.0							Batch: C_19925		
Sample ID: C08090975-001IMS	Sample Matrix Spike				Run: SUB-C109263		09/30/08 16:00		
Thorium 230	12.4	pCi/L	0.20	114	70	130			
Sample ID: C08090975-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C109263		09/30/08 16:00		
Thorium 230	15.8	pCi/L	0.20	139	70	130	24	30	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: LCS-19925	Laboratory Control Sample				Run: SUB-C109263		09/30/08 16:00		
Thorium 230	19.5	pCi/L	0.20	86	70	130			
Sample ID: MB-19925	Method Blank				Run: SUB-C109263		09/30/08 16:00		
Thorium 230	-1	pCi/L							U
Method: E907.0							Batch: C_R109681		
Sample ID: LCS-19876	Laboratory Control Sample				Run: SUB-C109681		09/30/08 15:00		
Thorium 230	2.5E-05	uCi/kg	2.0E-07	101	70	130			
Sample ID: MB-19876	Method Blank				Run: SUB-C109681		09/30/08 15:00		
Thorium 230	ND	uCi/kg							0.1
Sample ID: R08090356-008I	Sample Matrix Spike				Run: SUB-C109681		09/30/08 15:00		
Thorium 230	18.8	pCi/L	0.20	164	70	130			S
- Spike response is outside of the acceptance range for this analysis.									
Sample ID: R08090356-008I	Sample Matrix Spike Duplicate				Run: SUB-C109681		09/30/08 15:00		
Thorium 230	12.5	pCi/L	0.20	104	70	130	40	30	R

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 11/20/08
 Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0663		
Sample ID: LCS-RA-TH-ISO-0663	Laboratory Control Sample					Run: SUB-C110176			10/27/08 15:37
Thorium 230	5.43	pCi/L	0.20	91	70	130			
Sample ID: R08090356-001H	Sample Matrix Spike					Run: SUB-C110176			10/27/08 15:37
Thorium 230	16.4	pCi/L	0.20	101	70	130			
Sample ID: R08090356-001H	Sample Matrix Spike Duplicate					Run: SUB-C110176			10/27/08 15:37
Thorium 230	13.6	pCi/L	0.20	84	70	130	18	39.9	
Sample ID: MB-RA-TH-ISO-0663	Method Blank					Run: SUB-C110176			10/28/08 07:52
Thorium 230	0.02	pCi/L							U
Method: E909.0M							Batch: C_19925		
Sample ID: C08090341-005AMS	Sample Matrix Spike					Run: SUB-C108927			10/01/08 08:40
Lead 210	1210	pCi/Filter		56	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08090341-005AMSD	Sample Matrix Spike Duplicate					Run: SUB-C108927			10/01/08 08:40
Lead 210	1430	pCi/Filter		75	70	130	17	30	
Sample ID: MB-R108927	Method Blank					Run: SUB-C108927			10/01/08 08:40
Lead 210	1	pCi/L							U
Sample ID: LCS-R108927	Laboratory Control Sample					Run: SUB-C108927			10/01/08 08:40
Lead 210	120	pCi/L		106	70	130			
Method: E909.0M							Batch: C_19926		
Sample ID: R08090356-006I	Sample Matrix Spike					Run: SUB-C109587			10/13/08 10:21
Lead 210	1200	pCi/L		101	70	130			
Sample ID: R08090356-006I	Sample Matrix Spike Duplicate					Run: SUB-C109587			10/13/08 10:21
Lead 210	1200	pCi/L		101	70	130	0.3	30	
Sample ID: MB-R109587	Method Blank					Run: SUB-C109587			10/13/08 10:21
Lead 210	1	pCi/L							U
Sample ID: LCS-R109587	Laboratory Control Sample					Run: SUB-C109587			10/13/08 10:21
Lead 210	110	pCi/L		89	70	130			

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 11/20/08
Work Order: R08090356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R109120		
Sample ID: C08090975-005HMS	Sample Matrix Spike				Run: SUB-C109120		10/02/08 10:37		
Lead 210	640	pCi/L	111	70	130				
Sample ID: C08090975-005HMSD	Sample Matrix Spike Duplicate				Run: SUB-C109120		10/02/08 10:37		
Lead 210	450	pCi/L	77	70	130	36	30	R	
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: R08090356-005H	Sample Duplicate				Run: SUB-C109120		10/02/08 10:37		
Lead 210	1.9	pCi/L				2100	30	UR	
Lead 210 MDC	9.0	pCi/L							
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R109120	Method Blank				Run: SUB-C109120		10/02/08 10:37		
Lead 210	-0.8	pCi/L							U
Sample ID: LCS-R109120	Laboratory Control Sample				Run: SUB-C109120		10/02/08 10:37		
Lead 210	120	pCi/L	101	70	130				
Method: RMO-3008							Batch: C_PO210-0149		
Sample ID: R08090356-009J	Sample Matrix Spike				Run: SUB-C109078		10/02/08 14:54		
Polonium 210	44	pCi/L	1.0	102	70	130			
Sample ID: R08090356-009J	Sample Matrix Spike Duplicate				Run: SUB-C109078		10/02/08 14:54		
Polonium 210	55	pCi/L	1.0	128	70	130	22	61.7	
Sample ID: LCS-PO210-0149	Laboratory Control Sample				Run: SUB-C109078		10/03/08 08:57		
Polonium 210	41	pCi/L	1.0	95	70	130			
Sample ID: MB-PO210-0149	Method Blank				Run: SUB-C109078		10/03/08 08:57		
Polonium 210	0.07	pCi/L							U
Method: RMO-3008							Batch: C_R109370		
Sample ID: LCS-19925	Laboratory Control Sample				Run: SUB-C109370		10/09/08 12:31		
Polonium 210	170	pCi/L	1.0	98	70	130			
Sample ID: MB-19925	Method Blank				Run: SUB-C109370		10/09/08 12:31		
Polonium 210	0.3	pCi/L							U
Sample ID: R08090356-009I	Sample Matrix Spike				Run: SUB-C109370		10/09/08 12:31		
Polonium 210	340	pCi/L	1.0	101	70	130			
Sample ID: R08090356-009I	Sample Matrix Spike Duplicate				Run: SUB-C109370		10/09/08 12:31		
Polonium 210	320	pCi/L	1.0	95	70	130	5.8	47.6	

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: <i>Scott Environmental</i>		Project Name, PWS, Permit, Etc. <i>Powderfoot DB</i>		Sample Origin State: _____		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: <i>RESPEC</i>		Contact Name: <i>Allen Scott</i>		Phone/Fax: _____		Sampler: (Please Print) <i>Allen Scott</i>	
Invoice Address:		Invoice Contact & Phone:		Purchase Order:		Quoter/Bottle Order: <i>Allen Scott</i>	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC				Number of Containers Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other		Shipped by: Cooler (Pkg): _____ Receipt Temp <i>3.8</i> °C	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)				MATRIX		LABORATORY USE ONLY	
1 Dew Blvd 6W 6899 9-2-23 13:43 <i>Water</i>				11		002	
2 Dew Blvd 6W 6891 9-2-23 13:55				11		003	
3 Dew Blvd 6W 704 9-2-23 12:30				11		004	
4 Dew Blvd 6W 6977 9-2-23 11:45				11		005	
5 Dew Blvd 6W 6944 9-2-23 10:00				11		006	
6 Dew Blvd 6W 696 9-2-23 9:35				11		007	
7 Dew Blvd 6W 695 9-2-23 11:00				11		008	
8 Dew Blvd 6W 695 9-2-23 11:25				11		009	
9 Dew Blvd 6W 3026 9-2-23 15:10				11		009	
10							
Custody Record MUST be Signed		Requested by (print): <i>Allen Scott</i>		Date/Time: <i>9-2-23 10:21 AM</i>		Signature: <i>Allen Scott</i>	
Sample Disposal:		Return to Client:		Lab Disposal:		Requested by Laboratory: <i>Steve Franklin</i>	
Requested by (print): <i>Allen Scott</i>		Date/Time: <i>9-2-23 10:21 AM</i>		Signature: <i>Allen Scott</i>		Requested by Laboratory: <i>Steve Franklin</i>	
Requested by (print): <i>Allen Scott</i>		Date/Time: <i>9-2-23 10:21 AM</i>		Signature: <i>Allen Scott</i>		Requested by Laboratory: <i>Steve Franklin</i>	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be sub-contracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

December 29, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08100014 Quote ID: R286
Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample for RESPEC Inc on 10/1/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08100014-001	DewBurd GW688	09/30/08 8:30	10/01/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda Larson
Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100014-001
Client Sample ID: DewBurd GW688

Report Date: 12/29/08
Collection Date: 09/30/08 08:30
Date Received: 10/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B 10/02/08 15:33/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 10/02/08 15:33/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B 10/02/08 15:33/mb
Calcium	52.4	mg/L		0.5		2	E200.7 10/13/08 18:09/eli-c
Chloride	11	mg/L		1		1	E300.0 10/02/08 04:44/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 10/02/08 04:44/jmh
Magnesium	21.8	mg/L		0.5		2	E200.7 10/13/08 18:09/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 10/06/08 13:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 10/02/08 04:44/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 10/02/08 04:44/jmh
Potassium	12.2	mg/L		0.5		2	E200.7 10/13/08 18:09/eli-c
Sodium	203	mg/L	D	2		2	E200.7 10/13/08 18:09/eli-c
Sulfate	422	mg/L	D	3		50	E300.0 10/02/08 05:33/jmh
Silica	75.3	mg/L		0.2		1	E200.8 10/07/08 03:58/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1160	umhos/cm		5.0		1	A2510 B 10/06/08 15:55/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B 10/07/08 00:00/jmh
pH	7.90	s.u.		0.01		1	A4500-H B 10/06/08 16:11/tb
Sodium Adsorption Ratio (SAR)	6.0	unitless		0.10		1	Calculation 12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	790	mg/L		5		1	A2540 C 10/06/08 10:53/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 10/22/08 23:22/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 10/27/08 17:41/eli-c
Barium	ND	mg/L		0.1		1	E200.8 10/07/08 03:58/eli-c
Boron	ND	mg/L		0.1		2	E200.7 10/13/08 18:09/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 10/07/08 03:58/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 10/07/08 03:58/eli-c
Copper	ND	mg/L		0.01		1	E200.8 10/08/08 14:48/eli-c
Iron	0.04	mg/L		0.03		2	E200.7 10/13/08 18:09/eli-c
Lead	ND	mg/L		0.001		1	E200.8 10/07/08 03:58/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8 10/07/08 03:58/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 10/07/08 03:58/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 10/07/08 03:58/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 10/07/08 03:58/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 10/20/08 11:44/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/22/08 23:22/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/08/08 14:48/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100014-001
 Client Sample ID: DewBurd GW688

Report Date: 12/29/08
 Collection Date: 09/30/08 08:30
 Date Received: 10/01/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1	E200.8 10/08/08 14:48/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 10/07/08 03:58/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 10/08/08 14:48/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 10/31/08 03:05/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 10/20/08 09:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 10/20/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	4.9	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Gross Alpha MDC	3.5	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Gross Beta	10.9	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Gross Beta precision (±)	2.6	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Gross Beta MDC	4.1	pCi/L				1	E900.0 11/05/08 13:06/eli-ca
Lead 210	-0.1	pCi/L	U			1	E909.0M 10/20/08 10:13/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M 10/20/08 10:13/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M 10/20/08 10:13/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008 10/09/08 09:08/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1	RMO-3008 10/09/08 09:08/eli-c
Radium 226	0.6	pCi/L				1	E903.0 10/23/08 16:38/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 10/23/08 16:38/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0 10/24/08 08:42/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0 10/24/08 08:42/eli-c
Gross Gamma	230	pCi/L				1	E901.1 10/13/08 15:50/eli-c
Gross Gamma precision (±)	84	pCi/L				1	E901.1 10/13/08 15:50/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	1.2	pCi/L	U			1	E909.0M 10/16/08 10:00/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M 10/16/08 10:00/eli-c
Lead 210 MDC	8.6	pCi/L				1	E909.0M 10/16/08 10:00/eli-c
Polonium 210	0.15	pCi/L	U			1	RMO-3008 10/23/08 08:48/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1	RMO-3008 10/23/08 08:48/eli-c
Radium 226	0.09	pCi/L	U			1	E903.0 10/20/08 12:48/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 10/20/08 12:48/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0 10/20/08 12:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100014-001
Client Sample ID: DewBurd GW688

Report Date: 12/29/08
Collection Date: 09/30/08 08:30
Date Received: 10/01/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	10/15/08 16:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	10/15/08 16:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	535	pCi/L	H	100		1	D5072-92	10/10/08 10:07/eli-c
Radon 222 precision (±)	219	pCi/L	H			1	D5072-92	10/10/08 10:07/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/09/08 13:33/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/29/08 20:58/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/09/08 13:33/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/09/08 13:33/eli-c
Boron	ND	mg/L		0.1		2	E200.7	10/13/08 20:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/09/08 13:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/09/08 13:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/09/08 13:33/eli-c
Iron	0.19	mg/L		0.03		2	E200.7	10/13/08 20:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/09/08 13:33/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	10/09/08 13:33/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/06/08 15:37/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/09/08 13:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/09/08 13:33/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/09/08 13:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/09/08 13:33/eli-c
Strontium	1.3	mg/L		0.1		1	E200.8	10/09/08 13:33/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/09/08 13:33/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/09/08 13:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/09/08 13:33/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.37	%				1	A1030 E	12/10/08 00:00/jmh
Anions	12.4	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	13.6	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	1030	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.770					1	A1030 E	12/10/08 00:00/jmh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: 081002A-ALK-SEL-W
Sample ID: LCS1_081002A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			Run: PH_COND1-R_081003B 10/02/08 12:07
Sample ID: MBLK1_081002A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_081003B 10/02/08 12:08
Sample ID: R08090361-003AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 244	mg/L	5.0	89	80	120			Run: PH_COND1-R_081003B 10/02/08 14:55
Sample ID: R08090361-003AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 246	mg/L	5.0	91	80	120	0.8	10	Run: PH_COND1-R_081003B 10/02/08 14:59
Method: A2510 B									Batch: 081006_1_COND-PROBE-W
Sample ID: LCS_COND-1_081006 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_081006A 10/06/08 15:47
Sample ID: LCS1-1_081006 Conductivity @ 25 C	Laboratory Control Sample 148	umhos/cm	5.0	99	90	110			Run: PH_COND2-R_081006A 10/06/08 15:48
Sample ID: LCS2-1_081006 Conductivity @ 25 C	Laboratory Control Sample 4900	umhos/cm	5.0	98	90	110			Run: PH_COND2-R_081006A 10/06/08 15:49
Sample ID: MBLK-1_081006 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_081006A 10/06/08 15:50
Sample ID: R08100058-001BDUP Conductivity @ 25 C	Sample Duplicate 2740	umhos/cm	5.0				0	10	Run: PH_COND2-R_081006A 10/06/08 15:59
Method: A2540 C									Batch: 081006A-SLDS-TDS-W
Sample ID: LCS1_081006A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	108	90	110			Run: BAL-4-R_081006A 10/06/08 10:45
Sample ID: MBLK1_081006A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	3						Run: BAL-4-R_081006A 10/06/08 10:46
Sample ID: R08100031-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 5600	mg/L	5.0	145	80	120			Run: BAL-4-R_081006A 10/06/08 10:54 S
Sample ID: R08100031-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 5600	mg/L	5.0	115	80	120	1.1	10	Run: BAL-4-R_081006A 10/06/08 10:54

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 081007-ORP-ISE-W		
Sample ID: LCS Oxidation-Reduction Potential	Laboratory Control Sample 470	mV		100	95	105			10/07/08 00:00
Sample ID: R08100014-001F Oxidation-Reduction Potential	Sample Duplicate 300	mV					1.4	10	10/07/08 00:00
Method: A3114 B							Batch: C_SE3114-081020A		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	0.0003						10/20/08 09:40
Sample ID: 288-155-2 Selenium-IV	Laboratory Control Sample 0.052	mg/L	0.0010	105	90	110			10/20/08 09:42
Sample ID: R08100014-001E Selenium-IV	Sample Matrix Spike 0.052	mg/L	0.0010	105	85	115			10/20/08 09:47
Sample ID: R08100014-001E Selenium-IV	Sample Matrix Spike Duplicate 0.052	mg/L	0.0010	104	85	115	0.7	10	10/20/08 09:50
Method: A3114 B							Batch: C_SE3114-081020B		
Sample ID: MBLK Selenium	Method Blank 0.0005	mg/L	0.0003						10/20/08 11:30
Sample ID: 288-155-2 Selenium	Laboratory Control Sample 0.047	mg/L	0.0010	93	90	110			10/20/08 11:42
Sample ID: R08100014-001E Selenium	Sample Matrix Spike 0.048	mg/L	0.0010	96	85	115			10/20/08 11:47
Sample ID: R08100014-001E Selenium	Sample Matrix Spike Duplicate 0.049	mg/L	0.0010	99	85	115	2.7	15	10/20/08 11:49
Method: A4500-H B							Batch: 081006_1-PH-W		
Sample ID: LCS_pH-1_081006 pH	Laboratory Control Sample 6.79	s.u.	0.010	99	98.55	101.45			10/06/08 16:10
Sample ID: R08100058-001BDUP pH	Sample Duplicate 8.19	s.u.	0.010				0.5	1.25	10/06/08 16:16

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-10-06_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
					Run: TECHAA2-R_081006A			10/06/08 10:19	
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110			
					Run: TECHAA2-R_081006A			10/06/08 10:20	
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	102	90	110			
					Run: TECHAA2-R_081006A			10/06/08 10:21	
Sample ID: R08100014-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.46	mg/L	0.10	117	80	120			
					Run: TECHAA2-R_081006A			10/06/08 13:17	
Sample ID: R08100014-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.48	mg/L	0.10	123	80	120	3	10	S
					Run: TECHAA2-R_081006A			10/06/08 13:18	
Method: D5072-92							Batch: C_R109123		
Sample ID: C08100356-011CDUP Radon 222	Sample Duplicate 934	pCi/L	100				8.3	30	
					Run: SUB-C109123			10/10/08 10:07	
Sample ID: C08100436-001ADUP Radon 222	Sample Duplicate 595	pCi/L	100				8	30	
					Run: SUB-C109123			10/10/08 10:07	
Sample ID: MB-R109123 Radon 222	Method Blank 10	pCi/L							U
					Run: SUB-C109123			10/10/08 10:07	
Sample ID: LCS-R109123 Radon 222	Laboratory Control Sample 303	pCi/L	100	96	70	130			
					Run: SUB-C109123			10/10/08 10:07	

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 12/29/08

Project: Edgemont

Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R109160		
Sample ID: MB-081013A	Method Blank		Run: SUB-C109160			10/13/08 14:14			
Boron	ND	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Sample ID: LFB-081013A	Laboratory Fortified Blank		Run: SUB-C109160			10/13/08 14:19			
Boron	0.99	mg/L	0.10	99	85	115			
Calcium	52	mg/L	0.50	105	85	115			
Iron	1.1	mg/L	0.030	107	85	115			
Magnesium	52	mg/L	0.50	105	85	115			
Potassium	45	mg/L	0.50	91	85	115			
Sodium	50	mg/L	0.77	99	85	115			
Sample ID: C08100150-002BMS2	Sample Matrix Spike		Run: SUB-C109160			10/13/08 18:21			
Boron	1.04	mg/L	0.10	102	70	130			
Iron	1.21	mg/L	0.030	113	70	130			
Calcium	81.5	mg/L	1.0	111	70	130			
Magnesium	60.0	mg/L	1.0	110	70	130			
Potassium	47.5	mg/L	1.0	92	70	130			
Sodium	63.2	mg/L	1.0	104	70	130			
Sample ID: C08100150-002BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C109160			10/13/08 18:25			
Boron	1.02	mg/L	0.10	100	70	130	1.8	20	
Iron	1.17	mg/L	0.030	109	70	130	3	20	
Calcium	79.6	mg/L	1.0	107	70	130	2.4	20	
Magnesium	58.9	mg/L	1.0	108	70	130	1.9	20	
Potassium	47.4	mg/L	1.0	92	70	130	0.2	20	
Sodium	62.5	mg/L	1.0	103	70	130	1.1	20	
Sample ID: C08100110-001BMS2	Sample Matrix Spike		Run: SUB-C109160			10/13/08 20:35			
Boron	5.56	mg/L	0.10	99	70	130			
Iron	9.92	mg/L	0.044	100	70	130			
Calcium	427	mg/L	1.0	104	70	130			
Magnesium	275	mg/L	1.0	107	70	130			
Potassium	278	mg/L	1.0	85	70	130			
Sodium	1010	mg/L	2.7	89	70	130			
Sample ID: C08100110-001BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C109160			10/13/08 20:39			
Boron	5.54	mg/L	0.10	98	70	130	0.5	20	
Iron	9.98	mg/L	0.044	102	70	130	0.5	20	
Calcium	424	mg/L	1.0	103	70	130	0.6	20	
Magnesium	272	mg/L	1.0	106	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									
									Batch: C_R109160
Sample ID: C08100110-001BMSD2	Sample Matrix Spike Duplicate					Run: SUB-C109160			10/13/08 20:39
Potassium	280	mg/L	1.0	85	70	130	0.5	20	
Sodium	1020	mg/L	2.7	91	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108822		
Sample ID: LRB	Method Blank		Run: SUB-C108822			10/06/08 13:50			
Silicon	ND	mg/L	0.0001						
Barium	ND	mg/L	3E-05						
Cadmium	5E-06	mg/L	3E-06						
Chromium	ND	mg/L	4E-05						
Lead	ND	mg/L	3E-06						
Manganese	3E-05	mg/L	6E-06						
Mercury	5E-05	mg/L	1E-05						
Molybdenum	ND	mg/L	9E-06						
Nickel	ND	mg/L	3E-05						
Vanadium	ND	mg/L	3E-05						
Silica	ND	mg/L	0.0002						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C108822			10/06/08 13:57			
Silicon	0.216	mg/L	0.0010	108	85	115			
Barium	0.0510	mg/L	0.0010	102	85	115			
Cadmium	0.0503	mg/L	0.0010	101	85	115			
Chromium	0.0516	mg/L	0.0010	103	85	115			
Lead	0.0504	mg/L	0.0010	101	85	115			
Manganese	0.0505	mg/L	0.0010	101	85	115			
Mercury	0.00508	mg/L	0.0010	101	85	115			
Molybdenum	0.0501	mg/L	0.0010	100	85	115			
Nickel	0.0505	mg/L	0.0010	101	85	115			
Vanadium	0.0517	mg/L	0.0010	103	85	115			
Silica	0.462	mg/L	0.0021	108	85	115			
Sample ID: C08100156-001BMS4	Post Digestion Spike		Run: SUB-C108822			10/07/08 03:31			
Barium	0.554	mg/L	0.10	105	70	130			
Cadmium	0.512	mg/L	0.010	102	70	130			
Chromium	0.520	mg/L	0.050	103	70	130			
Lead	0.488	mg/L	0.050	98	70	130			
Manganese	0.500	mg/L	0.010	99	70	130			
Mercury	0.0363	mg/L	0.0010	73	70	130			
Molybdenum	0.411	mg/L	0.10	82	70	130			
Nickel	0.535	mg/L	0.050	107	70	130			
Silicon	52.4	mg/L	0.39		70	130			A
Vanadium	0.530	mg/L	0.10	106	70	130			
Silica	112	mg/L	0.84		70	130			A
Sample ID: C08100156-001BMSD4	Post Digestion Spike Duplicate		Run: SUB-C108822			10/07/08 03:37			
Barium	0.559	mg/L	0.10	106	70	130	0.8	20	
Cadmium	0.516	mg/L	0.010	103	70	130	0.9	20	
Chromium	0.523	mg/L	0.050	104	70	130	0.7	20	
Lead	0.492	mg/L	0.050	98	70	130	0.8	20	
Manganese	0.504	mg/L	0.010	100	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R108822		
Sample ID: C08100156-001BMSD4	Post Digestion Spike Duplicate		Run: SUB-C108822			10/07/08 03:37			
Mercury	0.0358	mg/L	0.0010	72	70	130	1.5	20	
Molybdenum	0.411	mg/L	0.10	82	70	130	0.1	20	
Nickel	0.538	mg/L	0.050	108	70	130	0.6	20	
Silicon	50.2	mg/L	0.39		70	130	4.2	20	A
Vanadium	0.531	mg/L	0.10	106	70	130	0.2	20	
Silica	107	mg/L	0.84		70	130	4.2	20	A

Method: E200.8							Batch: C_R108976		
Sample ID: LRB	Method Blank		Run: SUB-C108976			10/08/08 12:53			
Copper	ND	mg/L	3E-05						
Silver	5E-05	mg/L	7E-06						
Uranium	ND	mg/L	2E-06						
Zinc	0.0003	mg/L	3E-05						

Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C108976			10/08/08 13:00			
Copper	0.0514	mg/L	0.0010	103	85	115			
Silver	0.0200	mg/L	0.0010	100	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			
Zinc	0.0524	mg/L	0.0010	104	85	115			

Sample ID: C08091107-011FMS4	Post Digestion Spike		Run: SUB-C108976			10/08/08 16:22			
Copper	0.0434	mg/L	0.010	87	70	130			
Silver	0.0114	mg/L	0.010	57	70	130			S
Thorium 232	0.0486	mg/L	0.0010	97	70	130			
Uranium	0.0521	mg/L	0.00030	99	70	130			
Zinc	0.0613	mg/L	0.010	117	70	130			

Sample ID: C08091107-011FMSD4	Post Digestion Spike Duplicate		Run: SUB-C108976			10/08/08 16:29			
Copper	0.0430	mg/L	0.010	86	70	130	1.1	20	
Silver	0.0119	mg/L	0.010	59	70	130	3.9	20	S
Thorium 232	0.0478	mg/L	0.0010	96	70	130	1.7	20	
Uranium	0.0514	mg/L	0.00030	97	70	130	1.4	20	
Zinc	0.0514	mg/L	0.010	97	70	130	17	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Batch: C_R109039			
Sample ID: LRB	Method Blank		Run: SUB-C109039				10/09/08 12:45			
Antimony	0.0002	mg/L		4E-06						
Barium	ND	mg/L		3E-05						
Beryllium	4E-06	mg/L		4E-06						
Cadmium	6E-06	mg/L		3E-06						
Chromium	ND	mg/L		4E-05						
Copper	ND	mg/L		3E-05						
Lead	ND	mg/L		3E-06						
Manganese	ND	mg/L		6E-06						
Molybdenum	1E-05	mg/L		9E-06						
Nickel	ND	mg/L		3E-05						
Selenium	ND	mg/L		0.0001						
Silver	0.0001	mg/L		7E-06						
Strontium	ND	mg/L		2E-05						
Thallium	ND	mg/L		4E-06						
Uranium	ND	mg/L		2E-06						
Zinc	0.0003	mg/L		3E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C109039				10/09/08 12:52			
Antimony	0.0503	mg/L	0.0010	100	85	115				
Barium	0.0500	mg/L	0.0010	100	85	115				
Beryllium	0.0532	mg/L	0.0010	106	85	115				
Cadmium	0.0500	mg/L	0.0010	100	85	115				
Chromium	0.0503	mg/L	0.0010	101	85	115				
Copper	0.0506	mg/L	0.0010	101	85	115				
Lead	0.0498	mg/L	0.0010	100	85	115				
Manganese	0.0505	mg/L	0.0010	101	85	115				
Molybdenum	0.0502	mg/L	0.0010	100	85	115				
Nickel	0.0507	mg/L	0.0010	101	85	115				
Selenium	0.0499	mg/L	0.0010	100	85	115				
Silver	0.0194	mg/L	0.0010	96	85	115				
Strontium	0.0501	mg/L	0.0010	100	85	115				
Thallium	0.0500	mg/L	0.0010	100	85	115				
Uranium	0.0469	mg/L	0.00030	94	85	115				
Zinc	0.0535	mg/L	0.0010	106	85	115				
Sample ID: C08100151-017BMS4	Post Digestion Spike		Run: SUB-C109039				10/09/08 15:01			
Antimony	0.0502	mg/L	0.050	100	70	130				
Barium	0.0612	mg/L	0.10	99	70	130				
Beryllium	0.0428	mg/L	0.010	86	70	130				
Cadmium	0.0489	mg/L	0.010	98	70	130				
Chromium	0.0499	mg/L	0.050	100	70	130				
Copper	0.0476	mg/L	0.010	95	70	130				
Lead	0.0488	mg/L	0.050	98	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R109039		
Sample ID: C08100151-017BMS4	Post Digestion Spike				Run: SUB-C109039		10/09/08 15:01		
Manganese	0.0683	mg/L	0.010	98	70	130			
Molybdenum	0.0517	mg/L	0.10	103	70	130			
Nickel	0.0460	mg/L	0.050	92	70	130			
Selenium	0.0544	mg/L	0.0010	109	70	130			
Silver	0.0177	mg/L	0.010	89	70	130			
Strontium	0.205	mg/L	0.10	128	70	130			
Thallium	0.0485	mg/L	0.10	97	70	130			
Uranium	0.0485	mg/L	0.00030	96	70	130			
Zinc	0.0535	mg/L	0.010	103	70	130			
Sample ID: C08100151-017BMSD4	Post Digestion Spike Duplicate				Run: SUB-C109039		10/09/08 15:08		
Antimony	0.0497	mg/L	0.050	99	70	130	0	20	
Barium	0.0600	mg/L	0.10	97	70	130	0	20	
Beryllium	0.0426	mg/L	0.010	85	70	130	0.7	20	
Cadmium	0.0479	mg/L	0.010	96	70	130	2	20	
Chromium	0.0498	mg/L	0.050	100	70	130	0	20	
Copper	0.0467	mg/L	0.010	93	70	130	1.9	20	
Lead	0.0488	mg/L	0.050	98	70	130	0	20	
Manganese	0.0671	mg/L	0.010	95	70	130	1.8	20	
Molybdenum	0.0508	mg/L	0.10	102	70	130	0	20	
Nickel	0.0457	mg/L	0.050	91	70	130	0	20	
Selenium	0.0539	mg/L	0.0010	108	70	130	0.9	20	
Silver	0.0174	mg/L	0.010	87	70	130	1.7	20	
Strontium	0.202	mg/L	0.10	123	70	130	1.4	20	
Thallium	0.0488	mg/L	0.10	98	70	130	0	20	
Uranium	0.0487	mg/L	0.00030	96	70	130	0.4	20	
Zinc	0.0522	mg/L	0.010	101	70	130	2.5	20	
Method: E200.8							Batch: C_R109712		
Sample ID: LRB	Method Blank				Run: SUB-C109712		10/22/08 12:38		
Aluminum	0.001	mg/L	0.0001						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C109712		10/22/08 12:45		
Aluminum	0.0548	mg/L	0.0010	107	85	115			
Sample ID: C08100471-016DMS4	Post Digestion Spike				Run: SUB-C109712		10/22/08 22:41		
Aluminum	0.298	mg/L	0.10	119	70	130			
Sample ID: C08100471-016DMSD4	Post Digestion Spike Duplicate				Run: SUB-C109712		10/22/08 22:47		
Aluminum	0.295	mg/L	0.10	118	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R109913		
Sample ID: LRB	Method Blank								
Arsenic	ND	mg/L	6E-05						
Run: SUB-C109913							10/27/08 12:28		
Sample ID: LFB	Laboratory Fortified Blank								
Arsenic	0.0513	mg/L	0.0010	103	85	115			
Run: SUB-C109913							10/27/08 12:33		
Sample ID: C08100267-002BMS4	Post Digestion Spike								
Arsenic	0.0559	mg/L	0.0010	104	70	130			
Run: SUB-C109913							10/27/08 17:57		
Sample ID: C08100267-002BMSD4	Post Digestion Spike Duplicate								
Arsenic	0.0561	mg/L	0.0010	104	70	130	0.4	20	
Run: SUB-C109913							10/27/08 18:02		
Method: E200.8							Batch: C_R110071		
Sample ID: LRB	Method Blank								
Arsenic	ND	mg/L	6E-05						
Run: SUB-C110071							10/29/08 18:03		
Sample ID: LFB	Laboratory Fortified Blank								
Arsenic	0.0479	mg/L	0.0010	96	85	115			
Run: SUB-C110071							10/29/08 18:09		
Sample ID: C08100460-002BMS4	Post Digestion Spike								
Arsenic	0.0557	mg/L	0.0010	98	70	130			
Run: SUB-C110071							10/29/08 22:55		
Sample ID: C08100460-002BMSD4	Post Digestion Spike Duplicate								
Arsenic	0.0548	mg/L	0.0010	96	70	130	1.7	20	
Run: SUB-C110071							10/29/08 23:01		
Method: E245.1							Batch: B_35067		
Sample ID: MB-35067	Method Blank								
Mercury	ND	mg/L	5E-05						
Run: SUB-B118690							10/06/08 12:51		
Sample ID: LFB-35067	Laboratory Fortified Blank								
Mercury	0.0017	mg/L	0.0010	87	85	115			
Run: SUB-B118690							10/06/08 12:54		
Sample ID: B08100347-005CMS	Sample Matrix Spike								
Mercury	0.065	mg/L	0.0010		70	130			A
Run: SUB-B118690							10/06/08 15:25		
Sample ID: B08100347-005CMSD	Sample Matrix Spike Duplicate								
Mercury	0.068	mg/L	0.0010		70	130	4.8	30	A
Run: SUB-B118690							10/06/08 15:28		
Method: E245.1							Analytical Run: SUB-B118690		
Sample ID: QCS	Initial Calibration Verification Standard								
Mercury	0.0019	mg/L	0.0010	94	90	110			
Run: SUB-B118690							10/06/08 12:44		

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R37804		
Sample ID: LFB0810013653-3	Laboratory Fortified Blank								10/01/08 18:53
Chloride	4.95	mg/L	0.50	99	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.46	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N	2.54	mg/L	0.10	102	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0810013653-4	Laboratory Fortified Blank								10/01/08 19:09
Chloride	5.03	mg/L	0.50	101	90	110			
Fluoride	2.12	mg/L	0.10	106	90	110			
Nitrogen, Nitrate as N	2.50	mg/L	0.10	100	90	110			
Nitrogen, Nitrite as N	2.58	mg/L	0.10	103	90	110			
Sulfate	14.9	mg/L	1.0	99	90	110			
Sample ID: R08100014-001AMS	Sample Matrix Spike								10/02/08 05:49
Chloride	263	mg/L	5.4	94	80	120			
Fluoride	107	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	98	80	120			
Nitrogen, Nitrite as N	128	mg/L	2.9	102	80	120			
Sulfate	1130	mg/L	3.4	94	80	120			
Sample ID: R08100014-001AMSD	Sample Matrix Spike Duplicate								10/02/08 06:06
Chloride	258	mg/L	5.4	92	80	120	2.2	10	
Fluoride	104	mg/L	0.56	97	80	120	2.4	10	
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120	2.6	10	
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120	2.8	10	
Sulfate	1120	mg/L	3.4	92	80	120	1.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0549		
Sample ID: MB-GrAB-0549	Method Blank								
Gross Alpha	-0.7	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0549	Laboratory Control Sample								
Gross Alpha	130	pCi/L	96	70	130				11/05/08 01:00
Sample ID: C08100684-001AMS	Sample Matrix Spike								
Gross Alpha	130	pCi/L	94	70	130				11/05/08 01:00
Sample ID: C08100684-001AMSD	Sample Matrix Spike Duplicate								
Gross Alpha	140	pCi/L	100	70	130	6.1	18.3		11/05/08 01:00
Sample ID: C08100012-002DDUP	Sample Duplicate								
Gross Alpha	4.3	pCi/L					76	434.7	U
Gross Beta	-12	pCi/L					110	196.9	U
Sample ID: Cs137-GrAB-0549	Laboratory Control Sample								
Gross Beta	83	pCi/L	90	70	130				11/05/08 01:00
Sample ID: C08100684-001AMS	Sample Matrix Spike								
Gross Beta	96	pCi/L	98	70	130				11/05/08 01:00
Sample ID: C08100684-001AMSD	Sample Matrix Spike Duplicate								
Gross Beta	96	pCi/L	98	70	130	0.1	16.1		11/05/08 01:00
Method: E901.1							Batch: C_R109497		
Sample ID: MB-R109497	Method Blank								
Gross Gamma	ND	pCi/L							10/13/08 15:50
Sample ID: LCS-R109497	Laboratory Control Sample								
Cesium 137	46000	pCi/L	20	106	70	130			10/13/08 15:50
Cobalt 60	32000	pCi/L	20	102	70	130			
Sample ID: C08091068-007HDUP	Sample Duplicate								
Gross Gamma	960	pCi/L					0.2	30	10/13/08 15:50

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-3138		
Sample ID: C08100062-002AMS Radium 226	Sample Matrix Spike 22	pCi/L		85	70	130			10/23/08 15:01
Sample ID: C08100062-002AMSD Radium 226	Sample Matrix Spike Duplicate 23	pCi/L		87	70	130	1.4	25.4	10/23/08 15:01
Sample ID: MB-RA226-3138 Radium 226	Method Blank -0.04	pCi/L							10/23/08 16:38 U
Sample ID: LCS-RA226-3138 Radium 226	Laboratory Control Sample 7.6	pCi/L		96	70	130			10/23/08 16:38
Method: E903.0							Batch: C_RA226-3146		
Sample ID: C08091138-001ADUP Radium 226	Sample Duplicate 15.2	pCi/Filter					12	46.7	10/19/08 17:13
Sample ID: C08100116-005AMS Radium 226	Sample Matrix Spike 144	pCi/Filter		93	70	130			10/20/08 11:18
Sample ID: LCS-20083 Radium 226	Laboratory Control Sample 16	pCi/L		100	70	130			10/20/08 14:18
Sample ID: MB-20083 Radium 226	Method Blank -0.2	pCi/L							10/20/08 15:49 U
Method: E907.0							Batch: C_R110598		
Sample ID: C08091179-002AMS Thorium 230	Sample Matrix Spike 127	pCi/Filter	0.20	74	70	130			10/15/08 16:00
Sample ID: C08091179-002AMSD Thorium 230	Sample Matrix Spike Duplicate 163	pCi/Filter	0.20	102	70	130	25	30	10/15/08 16:00
Sample ID: LCS-20083 Thorium 230	Laboratory Control Sample 43.3	pCi/Filter	0.20	93	70	130			10/15/08 16:00
Sample ID: MB-20083 Thorium 230	Method Blank 0.10	pCi/Filter							10/15/08 16:00 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0661		
Sample ID: LCS-RA-TH-ISO-0661 Thorium 230	Laboratory Control Sample 11.5	pCi/L	0.20	102	70	130			10/23/08 16:11
Sample ID: R08100014-001H Thorium 230	Sample Matrix Spike 44.3	pCi/L	0.20	91	70	130			10/24/08 08:42
Sample ID: R08100014-001H Thorium 230	Sample Matrix Spike Duplicate 49.4	pCi/L	0.20	101	70	130	11	39.7	10/24/08 08:42
Sample ID: MB-RA-TH-ISO-0661 Thorium 230	Method Blank 0.2	pCi/L							10/24/08 08:42 U
Method: E909.0M							Batch: C_20083		
Sample ID: C08100116-002AMS Lead 210	Sample Matrix Spike 1150	pCi/Filter		97	70	130			10/16/08 10:00
Sample ID: C08100116-002AMSD Lead 210	Sample Matrix Spike Duplicate 1520	pCi/Filter		129	70	130	28	30	10/16/08 10:00
Sample ID: MB-R109829 Lead 210	Method Blank -0.3	pCi/L							10/16/08 10:00 U
Sample ID: LCS-R109829 Lead 210	Laboratory Control Sample 110	pCi/L		97	70	130			10/16/08 10:00
Method: E909.0M							Batch: C_R109942		
Sample ID: C08100106-005AMS Lead 210	Sample Matrix Spike 99	pCi/L		84	70	130			10/20/08 10:13
Sample ID: C08100301-006ADUP Lead 210	Sample Duplicate 1.8	pCi/L					5.4	30	10/20/08 10:13 U
Sample ID: MB-R109942 Lead 210	Method Blank ND	pCi/L							10/20/08 10:13 U
Sample ID: LCS-R109942 Lead 210	Laboratory Control Sample 52	pCi/L		90	70	130			10/20/08 10:13
Method: RMO-3008							Batch: C_20083		
Sample ID: LCS-20083 Polonium 210	Laboratory Control Sample 79	pCi/L	1.0	94	70	130			10/23/08 08:48
Sample ID: MB-20083 Polonium 210	Method Blank -0.5	pCi/L							10/23/08 11:46 U

Qualifiers:

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ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100014

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_PO210-0152		
Sample ID: R08100014-001K Polonium 210	Sample Matrix Spike 82	pCi/L	1.0	94	70	130			10/09/08 09:08
Sample ID: R08100014-001K Polonium 210	Sample Matrix Spike Duplicate 79	pCi/L	1.0	92	70	130	3.3	51.1	10/09/08 09:08
Sample ID: C08090823-001FDUP Polonium 210	Sample Duplicate -0.039	pCi/L	1.0				0	742.4	10/09/08 09:08 U
Sample ID: LCS-PO210-0152 Polonium 210	Laboratory Control Sample 35	pCi/L	1.0	101	70	130			10/09/08 09:08
Sample ID: MB-PO210-0152 Polonium 210	Method Blank -0.07	pCi/L							10/09/08 09:08 U
Method: RMO-3008							Batch: C_R109765		
Sample ID: C08091163-008AMS Polonium 210	Sample Matrix Spike 0.00057	uCi/kg	6.3E-06	90	70	130			10/23/08 08:48
Sample ID: C08091163-008AMSD Polonium 210	Sample Matrix Spike Duplicate 0.00058	uCi/kg	6.3E-06	92	70	130	2	51.9	10/23/08 08:48
Sample ID: LCS-20052 Polonium 210	Laboratory Control Sample 7.6E-05	uCi/kg	1.0E-06	92	70	130			10/23/08 08:48
Sample ID: MB-20052 Polonium 210	Method Blank ND	uCi/kg	1E-06						10/23/08 08:48 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: <i>Scott Environmental</i>	Project Name, PWS, Permit, Etc. <i>Denny/Burford Powerbed</i>	Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: <i>RESD Ec</i>	Contact Name: <i>Allan Scott</i>	Phone/Fax: <i>(773) 400 9</i>	Sampler: (Please Print)
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

- DW
- GSA
- POTW/MWTP
- State: _____
- Other: _____
- A2LA
- EDD/EDT (Electronic Data)
- Format: _____
- LEVEL IV
- NELAC

Number of Containers
Sample Type: A W S V B O
Air Water Soils/Solids
Vegetation Bioassay Other

Originals

ANALYSIS REQUESTED

SEE ATTACHED
Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:

*sample sent 1/14
Barcode # 1000014-001*

LABORATORY USE ONLY

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Received by (print):	Date/Time:	Signature:
1 <i>GW 6088</i>	<i>9-30-08</i>	<i>8:35</i>	<i>W</i>			
2						
3						
4						
5						
6						
7						
8						
9						
10						

Requested by (print): <i>Allen Scott</i>	Date/Time: <i>10-1-08 9:39</i>	Signature: <i>Allen Scott</i>
Received by (print):	Date/Time:	Signature:
Received by Laboratory: <i>Steve Hall</i>	Date/Time: <i>10-1-08 9:46</i>	Signature: <i>Steve Hall</i>

Custody Record MUST be Signed

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

December 29, 2008

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08100295 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 14 samples for RESPEC Inc on 10/22/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08100295-001	DewBurd BLK01	10/20/08 12:00	10/22/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved



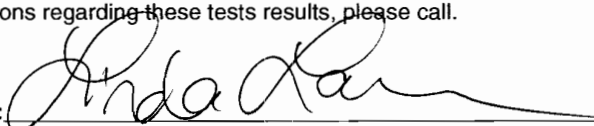
ANALYTICAL SUMMARY REPORT

R08100295-002 DewBurd GW680	10/20/08 12:10 10/22/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08100295-003 DewBurd GW680	10/20/08 12:10 10/22/08	Aqueous	Same As Above
R08100295-004 DewBurd GW698	10/20/08 13:52 10/22/08	Aqueous	Same As Above
R08100295-005 DewBurd GW688	10/20/08 12:15 10/22/08	Aqueous	Same As Above
R08100295-006 DewBurd GW622	10/20/08 15:42 10/22/08	Aqueous	Same As Above
R08100295-007 DewBurd GW3026	10/20/08 13:15 10/22/08	Aqueous	Same As Above
R08100295-008 DewBurd GW689	10/20/08 14:46 10/22/08	Aqueous	Same As Above
R08100295-009 DewBurd GW681	10/20/08 15:00 10/22/08	Aqueous	Same As Above
R08100295-010 DewBurd GW615	10/20/08 16:20 10/22/08	Aqueous	Same As Above
R08100295-011 DewBurd GW697	10/21/08 9:45 10/22/08	Aqueous	Same As Above
R08100295-012 DewBurd GW695	10/21/08 9:10 10/22/08	Aqueous	Same As Above
R08100295-013 DewBurd GW694	10/21/08 8:25 10/22/08	Aqueous	Same As Above
R08100295-014 DewBurd GW696	10/21/08 8:45 10/22/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:



Linda Larson
 Rapid City - Project Manager



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08100295

Date: 29-Dec-08

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- Any exceptions noted are listed in the Analytical Report

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: C08101052

ANALYTICAL COMMENTS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.

End of comments imported for SUBBED Workorder: C08101052



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-001
 Client Sample ID: DewBurd BLK01

Report Date: 12/29/08
 Collection Date: 10/20/08 12:00
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	10/27/08 15:41/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:41/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	10/27/08 15:41/mb
Calcium	ND	mg/L		0.5		2	E200.7	11/05/08 17:04/eli-c
Chloride	ND	mg/L		1		1	E300.0	10/22/08 20:47/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	10/22/08 20:47/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	11/05/08 17:04/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:51/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/22/08 20:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/22/08 20:47/jmh
Potassium	ND	mg/L		0.5		2	E200.7	11/05/08 17:04/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	11/05/08 17:04/eli-c
Sulfate	ND	mg/L		1		1	E300.0	10/22/08 20:47/jmh
Silica	0.5	mg/L		0.2		2	E200.7	11/05/08 17:04/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	10/28/08 17:04/tb
Oxidation-Reduction Potential	400	mV				1	A2580 B	10/27/08 19:00/jmh
pH	5.63	s.u.		0.01		1	A4500-H B	10/28/08 13:28/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	24	mg/L		5		1	A2540 C	10/24/08 15:44/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/05/08 05:25/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/05/08 05:25/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 05:25/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 17:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 05:25/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 05:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 05:25/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 17:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 05:25/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	11/05/08 05:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 05:25/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 05:25/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 05:25/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:34/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 13:29/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-001
 Client Sample ID: DewBurd BLK01

Report Date: 12/29/08
 Collection Date: 10/20/08 12:00
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 11/05/08 05:25/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 11/05/08 05:25/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 11/05/08 05:25/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 11/05/08 05:25/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 11/06/08 15:24/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 10/30/08 14:31/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	-0.05	pCi/L	U			1	E900.0 11/22/08 01:24/eli-ce
Gross Alpha precision (±)	0.4	pCi/L				1	E900.0 11/22/08 01:24/eli-ce
Gross Alpha MDC	0.7	pCi/L				1	E900.0 11/22/08 01:24/eli-ce
Gross Beta	-2	pCi/L	U			1	E900.0 11/22/08 01:24/eli-ce
Gross Beta precision (±)	1.5	pCi/L				1	E900.0 11/22/08 01:24/eli-ce
Gross Beta MDC	2.6	pCi/L				1	E900.0 11/22/08 01:24/eli-ce
Lead 210	4.7	pCi/L	U			1	E909.0M 11/06/08 09:13/eli-c
Lead 210 precision (±)	3.7	pCi/L				1	E909.0M 11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M 11/06/08 09:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.18	pCi/L				1	RMO-3008 11/19/08 09:23/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0 11/11/08 00:38/eli-c
Radium 226 precision (±)	0.08	pCi/L				1	E903.0 11/11/08 00:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 11/20/08 08:50/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1 10/27/08 11:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	0.7	pCi/L	U			1	E909.0M 11/11/08 10:15/eli-c
Lead 210 precision (±)	4.1	pCi/L				1	E909.0M 11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M 11/11/08 10:15/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008 11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.39	pCi/L				1	RMO-3008 11/13/08 12:40/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0 11/11/08 11:22/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 11/11/08 11:22/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-001
 Client Sample ID: DewBurd BLK01

Report Date: 12/29/08
 Collection Date: 10/20/08 12:00
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.5	pCi/L					1	E903.0	11/11/08 11:22/eli-c
Thorium 230	-0.2	pCi/L	U	0.2			1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	184	pCi/L		100			1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	69.2	pCi/L					1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/30/08 02:41/eli-c
Arsenic	0.003	mg/L	L	0.002			1	E200.8	10/30/08 02:41/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/30/08 02:41/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	10/30/08 02:41/eli-c
Boron	ND	mg/L		0.1			2	E200.7	11/05/08 20:25/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/30/08 02:41/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/30/08 02:41/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/30/08 02:41/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	11/05/08 20:25/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/30/08 02:41/eli-c
Manganese	ND	mg/L		0.01			2	E200.7	11/05/08 20:25/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/27/08 09:30/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	10/30/08 02:41/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/30/08 02:41/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/30/08 02:41/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/30/08 02:41/eli-c
Strontium	ND	mg/L		0.1			2	E200.7	11/05/08 20:25/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	10/30/08 02:41/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	10/30/08 02:41/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/30/08 02:41/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-002
Client Sample ID: DewBurd GW680

Report Date: 12/29/08
Collection Date: 10/20/08 12:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	252	mg/L		5		1	A2320 B	10/27/08 15:48/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:48/mb
Bicarbonate as HCO3	307	mg/L		5		1	A2320 B	10/27/08 15:48/mb
Calcium	384	mg/L		0.5		2	E200.7	11/05/08 17:28/eli-c
Chloride	14	mg/L		1		1	E300.0	10/22/08 21:20/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	10/22/08 21:20/jmh
Magnesium	122	mg/L		0.5		2	E200.7	11/05/08 17:28/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:52/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/22/08 21:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/22/08 21:20/jmh
Potassium	18.7	mg/L		0.5		2	E200.7	11/05/08 17:28/eli-c
Sodium	143	mg/L	D	2		2	E200.7	11/05/08 17:28/eli-c
Sulfate	1350	mg/L	D	3		50	E300.0	10/22/08 21:03/jmh
Silica	8.5	mg/L		0.2		2	E200.7	11/05/08 17:28/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2670	umhos/cm		5.0		1	A2510 B	10/28/08 17:05/tb
Oxidation-Reduction Potential	110	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.69	s.u.		0.01		1	A4500-H B	10/29/08 00:00/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	2400	mg/L		5		1	A2540 C	10/24/08 15:44/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/05/08 05:32/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/05/08 05:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 05:32/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	11/05/08 17:28/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 05:32/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 05:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 05:32/eli-c
Iron	0.06	mg/L		0.03		2	E200.7	11/05/08 17:28/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 05:32/eli-c
Manganese	0.41	mg/L		0.01		1	E200.8	11/05/08 05:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 05:32/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 05:32/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 05:32/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 13:36/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 05:32/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-002
Client Sample ID: DewBurd GW680

Report Date: 12/29/08
Collection Date: 10/20/08 12:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0179	mg/L		0.0003		1	E200.8	11/05/08 05:32/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 05:32/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 05:32/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 15:28/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:38/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	3700	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha precision (±)	58.4	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha MDC	6.8	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta	1170	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta precision (±)	16.7	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta MDC	9.5	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Lead 210	7.9	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.8	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.69	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	1230	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	6.8	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	4400	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	6.6	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.2	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	1.0	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.68	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	9.0	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 precision (±)	1	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 11:22/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-002
Client Sample ID: DewBurd GW680

Report Date: 12/29/08
Collection Date: 10/20/08 12:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	66700	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	365	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/30/08 02:48/eli-c
Arsenic	0.008	mg/L	L	0.002		1	E200.8	10/30/08 02:48/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/30/08 02:48/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/30/08 02:48/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	11/05/08 20:33/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/30/08 02:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/30/08 02:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/30/08 02:48/eli-c
Iron	0.29	mg/L		0.03		2	E200.7	11/05/08 20:33/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/30/08 02:48/eli-c
Manganese	0.46	mg/L		0.01		2	E200.7	11/05/08 20:33/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 09:32/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/30/08 02:48/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/30/08 02:48/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/30/08 02:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/30/08 02:48/eli-c
Strontium	7.4	mg/L		0.1		2	E200.7	11/05/08 20:33/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/30/08 02:48/eli-c
Uranium	0.0209	mg/L		0.0003		1	E200.8	10/30/08 02:48/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/30/08 02:48/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.49	%				1	A1030 E	12/10/08 00:00/jmh
Anions	33.5	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	35.9	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	2200	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.08					1	A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 6 of 42
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration L - Lowest available reporting limit for the analytical method used.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-003
Client Sample ID: DewBurd GW680

Report Date: 12/29/08
Collection Date: 10/20/08 12:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	338	mg/L		5		1	A2320 B	10/27/08 15:50/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:50/mb
Bicarbonate as HCO3	412	mg/L		5		1	A2320 B	10/27/08 15:50/mb
Calcium	382	mg/L		0.5		2	E200.7	11/05/08 17:36/eli-c
Chloride	14	mg/L		1		1	E300.0	10/22/08 21:53/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	10/22/08 21:53/jmh
Magnesium	123	mg/L		0.5		2	E200.7	11/05/08 17:36/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:53/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/22/08 21:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/22/08 21:53/jmh
Potassium	18.8	mg/L		0.5		2	E200.7	11/05/08 17:36/eli-c
Sodium	141	mg/L	D	2		2	E200.7	11/05/08 17:36/eli-c
Sulfate	1380	mg/L	D	3		50	E300.0	10/22/08 21:36/jmh
Silica	8.4	mg/L		0.2		2	E200.7	11/05/08 17:36/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2660	umhos/cm		5.0		1	A2510 B	10/28/08 17:17/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.60	s.u.		0.01		1	A4500-H B	10/28/08 13:35/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C	10/24/08 15:45/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/05/08 05:38/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/05/08 05:38/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 05:38/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	11/05/08 17:36/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 05:38/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 05:38/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 05:38/eli-c
Iron	0.07	mg/L		0.03		2	E200.7	11/05/08 17:36/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 05:38/eli-c
Manganese	0.41	mg/L		0.01		1	E200.8	11/05/08 05:38/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 05:38/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 05:38/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 05:38/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 13:43/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 05:38/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-003
 Client Sample ID: DewBurd GW680

Report Date: 12/29/08
 Collection Date: 10/20/08 12:10
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0176	mg/L		0.0003		1	E200.8	11/05/08 05:38/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 05:38/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 05:38/eli-c
METALS - SUSPENDED								
Uranium	0.0003	mg/L		0.0003		1	E200.8	11/06/08 15:32/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	4200	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha precision (±)	63.0	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha MDC	7.0	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta	1190	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta precision (±)	16.8	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta MDC	9.5	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Lead 210	18.2	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.9	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	1190	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	6.2	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	4400	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.1	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.1	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	6.9	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 precision (±)	0.9	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 11:22/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-003
Client Sample ID: DewBurd GW680

Report Date: 12/29/08
Collection Date: 10/20/08 12:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	74300	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	385	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/30/08 02:55/eli-c
Arsenic	0.007	mg/L	L	0.002		1	E200.8	10/30/08 02:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/30/08 02:55/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/30/08 02:55/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	11/05/08 20:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/30/08 02:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/30/08 02:55/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/30/08 02:55/eli-c
Iron	0.29	mg/L		0.03		2	E200.7	11/05/08 20:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/30/08 02:55/eli-c
Manganese	0.44	mg/L		0.01		2	E200.7	11/05/08 20:37/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 09:34/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/30/08 02:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/30/08 02:55/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/30/08 02:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/30/08 02:55/eli-c
Strontium	7.2	mg/L		0.1		2	E200.7	11/05/08 20:37/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/30/08 02:55/eli-c
Uranium	0.0210	mg/L		0.0003		1	E200.8	10/30/08 02:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/30/08 02:55/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.230	%				1	A1030 E	12/10/08 00:00/jmh
Anions	36.0	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	35.8	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	2290	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.910					1	A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-004
Client Sample ID: DewBurd GW698

Report Date: 12/29/08
Collection Date: 10/20/08 13:52
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	114	mg/L		5		1	A2320 B	10/27/08 15:52/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:52/mb
Bicarbonate as HCO3	139	mg/L		5		1	A2320 B	10/27/08 15:52/mb
Calcium	366	mg/L		0.5		2	E200.7	11/05/08 17:40/eli-c
Chloride	10	mg/L		1		1	E300.0	10/22/08 23:31/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	10/22/08 23:31/jmh
Magnesium	128	mg/L		0.5		2	E200.7	11/05/08 17:40/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:55/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/22/08 23:31/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/22/08 23:31/jmh
Potassium	15.1	mg/L		0.5		2	E200.7	11/05/08 17:40/eli-c
Sodium	84	mg/L	D	2		2	E200.7	11/05/08 17:40/eli-c
Sulfate	1380	mg/L	D	3		50	E300.0	10/22/08 22:42/jmh
Silica	10.5	mg/L		0.2		2	E200.7	11/05/08 17:40/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2480	umhos/cm		5.0		1	A2510 B	10/28/08 17:18/tb
Oxidation-Reduction Potential	64	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.34	s.u.		0.01		1	A4500-H B	10/28/08 13:38/tb
Sodium Adsorption Ratio (SAR)	0.96	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	10/27/08 10:44/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/05/08 05:45/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/05/08 05:45/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 05:45/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 17:40/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 05:45/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 05:45/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 05:45/eli-c
Iron	2.67	mg/L		0.03		2	E200.7	11/05/08 17:40/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 05:45/eli-c
Manganese	2.37	mg/L		0.01		1	E200.8	11/05/08 05:45/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 05:45/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 05:45/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 05:45/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:45/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 13:49/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 05:45/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-004
Client Sample ID: DewBurd GW698

Report Date: 12/29/08
Collection Date: 10/20/08 13:52
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.103	mg/L		0.0003		1	E200.8	11/05/08 05:45/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 05:45/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 05:45/eli-c
METALS - SUSPENDED								
Uranium	0.0036	mg/L		0.0003		1	E200.8	11/06/08 15:37/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:43/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1330	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha precision (±)	34.2	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha MDC	6.5	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta	399	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta precision (±)	10.7	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta MDC	9.4	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Lead 210	6.8	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.8	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.42	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	347	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	3.5	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	1700	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	100	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.7	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.1	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	1.0	pCi/L		1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.68	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	7.4	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 precision (±)	0.9	pCi/L				1	E903.0	11/11/08 11:22/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 11:22/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-004
Client Sample ID: DewBurd GW698

Report Date: 12/29/08
Collection Date: 10/20/08 13:52
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	38200	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	278	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/30/08 03:02/eli-c
Arsenic	0.006	mg/L	L	0.002		1	E200.8	10/30/08 03:02/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/30/08 03:02/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/30/08 03:02/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 20:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/30/08 03:02/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/30/08 03:02/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/30/08 03:02/eli-c
Iron	4.86	mg/L		0.03		2	E200.7	11/05/08 20:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/30/08 03:02/eli-c
Manganese	2.47	mg/L		0.01		2	E200.7	11/05/08 20:41/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 09:37/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/30/08 03:02/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/30/08 03:02/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/30/08 03:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/30/08 03:02/eli-c
Strontium	4.9	mg/L		0.1		2	E200.7	11/05/08 20:41/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/30/08 03:02/eli-c
Uranium	0.132	mg/L		0.0003		1	E200.8	10/30/08 03:02/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/30/08 03:02/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.91	%				1	A1030 E	12/10/08 00:00/jmh
Anions	31.2	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	33.1	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	2080	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.10					1	A1030 E	12/10/08 00:00/jmh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-005
Client Sample ID: DewBurd GW688

Report Date: 12/29/08
Collection Date: 10/20/08 12:15
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	162	mg/L		5		1	A2320 B	10/27/08 15:54/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:54/mb
Bicarbonate as HCO3	197	mg/L		5		1	A2320 B	10/27/08 15:54/mb
Calcium	49.0	mg/L		0.5		2	E200.7	11/05/08 17:44/eli-c
Chloride	12	mg/L		1		1	E300.0	10/23/08 00:04/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	10/23/08 00:04/jmh
Magnesium	20.1	mg/L		0.5		2	E200.7	11/05/08 17:44/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:56/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 00:04/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 00:04/jmh
Potassium	12.0	mg/L		0.5		2	E200.7	11/05/08 17:44/eli-c
Sodium	193	mg/L	D	2		2	E200.7	11/05/08 17:44/eli-c
Sulfate	450	mg/L	D	3		50	E300.0	10/22/08 23:48/jmh
Silica	8.4	mg/L		0.2		2	E200.7	11/05/08 17:44/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1260	umhos/cm		5.0		1	A2510 B	10/28/08 17:19/tb
Oxidation-Reduction Potential	170	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.15	s.u.		0.01		1	A4500-H B	10/28/08 13:40/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5		1	A2540 C	10/24/08 15:46/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/05/08 05:52/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/05/08 05:52/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 05:52/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 17:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 05:52/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 05:52/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 05:52/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	11/05/08 17:44/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 05:52/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	11/05/08 05:52/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 05:52/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 05:52/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 05:52/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 13:56/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 05:52/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-005
Client Sample ID: DewBurd GW688

Report Date: 12/29/08
Collection Date: 10/20/08 12:15
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/05/08 05:52/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 05:52/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 05:52/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 15:41/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	10.2	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha MDC	2.8	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta	14.9	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta MDC	3.6	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Lead 210	1.1	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.7	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	1.6	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	310	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	53	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.14	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 13:02/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-005
Client Sample ID: DewBurd GW688

Report Date: 12/29/08
Collection Date: 10/20/08 12:15
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	184	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	69.2	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/30/08 03:09/eli-c
Arsenic	0.004	mg/L	L	0.002		1	E200.8	10/30/08 03:09/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/30/08 03:09/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/30/08 03:09/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 20:45/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/30/08 03:09/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/30/08 03:09/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/30/08 03:09/eli-c
Iron	0.16	mg/L		0.03		2	E200.7	11/05/08 20:45/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/30/08 03:09/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	11/05/08 20:45/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 09:44/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/30/08 03:09/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/30/08 03:09/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/30/08 03:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/30/08 03:09/eli-c
Strontium	1.3	mg/L		0.1		2	E200.7	11/05/08 20:45/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/30/08 03:09/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/30/08 03:09/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/30/08 03:09/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.510	%				1	A1030 E	12/10/08 00:00/jmh
Anions	13.0	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	12.8	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	857	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-006
Client Sample ID: DewBurd GW622

Report Date: 12/29/08
Collection Date: 10/20/08 15:42
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	10/27/08 15:55/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:55/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	10/27/08 15:55/mb
Calcium	87.9	mg/L		0.5		2	E200.7	11/05/08 17:49/eli-c
Chloride	10	mg/L		1		1	E300.0	10/23/08 00:37/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	10/23/08 00:37/jmh
Magnesium	29.9	mg/L		0.5		2	E200.7	11/05/08 17:49/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 17:57/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 00:37/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 00:37/jmh
Potassium	10.2	mg/L		0.5		2	E200.7	11/05/08 17:49/eli-c
Sodium	179	mg/L	D	2		2	E200.7	11/05/08 17:49/eli-c
Sulfate	510	mg/L	D	3		50	E300.0	10/23/08 00:20/jmh
Silica	8.4	mg/L		0.2		2	E200.7	11/05/08 17:49/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1390	umhos/cm		5.0		1	A2510 B	10/28/08 17:20/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.95	s.u.		0.01		1	A4500-H B	10/28/08 13:42/tb
Sodium Adsorption Ratio (SAR)	4.2	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C	10/24/08 15:46/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 17:49/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/05/08 06:39/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 06:39/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 17:49/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 06:39/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 06:39/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 06:39/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 17:49/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 06:39/eli-c
Manganese	0.18	mg/L		0.01		1	E200.8	11/05/08 06:39/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 06:39/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 06:39/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 06:39/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 14:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 06:39/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-006
 Client Sample ID: DewBurd GW622

Report Date: 12/29/08
 Collection Date: 10/20/08 15:42
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0052	mg/L		0.0003		1	E200.8	11/05/08 06:39/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 06:39/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 06:39/eli-c
METALS - SUSPENDED								
Uranium	0.0004	mg/L		0.0003		1	E200.8	11/06/08 15:45/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:47/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	29.3	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha precision (±)	3.9	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Alpha MDC	3.1	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta	20.0	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Gross Beta MDC	4.1	pCi/L				1	E900.0	11/22/08 01:24/eli-ca
Lead 210	3.2	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	7.4	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	12.3	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.22	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	2.7	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	130	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	40	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-1	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.41	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 13:02/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-006
 Client Sample ID: DewBurd GW622

Report Date: 12/29/08
 Collection Date: 10/20/08 15:42
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1360	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	82.1	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/30/08 03:15/eli-c
Arsenic	0.006	mg/L	L	0.002		1	E200.8	10/30/08 03:15/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/30/08 03:15/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	10/30/08 03:15/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 20:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/30/08 03:15/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/30/08 03:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/30/08 03:15/eli-c
Iron	1.21	mg/L		0.03		2	E200.7	11/05/08 20:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/30/08 03:15/eli-c
Manganese	0.18	mg/L		0.01		2	E200.7	11/05/08 20:50/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 09:46/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	10/30/08 03:15/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/30/08 03:15/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/30/08 03:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/30/08 03:15/eli-c
Strontium	1.6	mg/L		0.1		2	E200.7	11/05/08 20:50/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/30/08 03:15/eli-c
Uranium	0.0059	mg/L		0.0003		1	E200.8	10/30/08 03:15/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/30/08 03:15/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.37	%				1	A1030 E	12/10/08 00:00/jmh
Anions	14.5	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	14.9	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	957	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-007
Client Sample ID: DewBurd GW3026

Report Date: 12/29/08
Collection Date: 10/20/08 13:15
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	194	mg/L		5		1	A2320 B	10/27/08 15:58/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 15:58/mb
Bicarbonate as HCO3	236	mg/L		5		1	A2320 B	10/27/08 15:58/mb
Calcium	331	mg/L		0.5		2	E200.7	11/05/08 17:53/eli-c
Chloride	17	mg/L		1		1	E300.0	10/23/08 01:10/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	10/23/08 01:10/jmh
Magnesium	104	mg/L		0.5		2	E200.7	11/05/08 17:53/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:00/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 01:10/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 01:10/jmh
Potassium	19.0	mg/L		0.5		2	E200.7	11/05/08 17:53/eli-c
Sodium	168	mg/L	D	2		2	E200.7	11/05/08 17:53/eli-c
Sulfate	1360	mg/L	D	3		50	E300.0	10/23/08 00:53/jmh
Silica	9.9	mg/L		0.2		2	E200.7	11/05/08 17:53/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2660	umhos/cm		5.0		1	A2510 B	10/28/08 17:22/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.12	s.u.		0.01		1	A4500-H B	10/28/08 13:44/tb
Sodium Adsorption Ratio (SAR)	2.1	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	1700	mg/L		5		1	A2540 C	10/24/08 15:47/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 17:53/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/05/08 06:46/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 06:46/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	11/05/08 17:53/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 06:46/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 06:46/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 06:46/eli-c
Iron	3.36	mg/L		0.03		2	E200.7	11/05/08 17:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 06:46/eli-c
Manganese	0.92	mg/L		0.01		1	E200.8	11/05/08 06:46/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 06:46/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 06:46/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 06:46/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:56/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 14:36/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 06:46/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-007
 Client Sample ID: DewBurd GW3026

Report Date: 12/29/08
 Collection Date: 10/20/08 13:15
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0045	mg/L		0.0003		1	E200.8	11/05/08 06:46/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 06:46/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 06:46/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 15:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:55/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	36.0	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Gross Alpha precision (±)	6.8	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Gross Alpha MDC	6.6	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Gross Beta	20.2	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Gross Beta precision (±)	6.0	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Gross Beta MDC	9.4	pCi/L				1	E900.0	11/22/08 01:24/eli-ce
Lead 210	-1	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	3.5	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	840	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-3	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.8	pCi/L	U			1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	1	pCi/L				1	E903.0	11/11/08 13:02/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-007
Client Sample ID: DewBurd GW3026

Report Date: 12/29/08
Collection Date: 10/20/08 13:15
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	254	pCi/L		100			1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	69.7	pCi/L					1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/30/08 03:22/eli-c
Arsenic	0.010	mg/L	L	0.002			1	E200.8	10/30/08 03:22/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/30/08 03:22/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	10/30/08 03:22/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	11/05/08 20:54/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/30/08 03:22/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/30/08 03:22/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/30/08 03:22/eli-c
Iron	14.3	mg/L		0.03			2	E200.7	11/05/08 20:54/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/30/08 03:22/eli-c
Manganese	1.01	mg/L		0.01			2	E200.7	11/05/08 20:54/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/27/08 09:48/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	10/30/08 03:22/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/30/08 03:22/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/30/08 03:22/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/30/08 03:22/eli-c
Strontium	5.9	mg/L		0.1			2	E200.7	11/05/08 20:54/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	10/30/08 03:22/eli-c
Uranium	0.0055	mg/L		0.0003			1	E200.8	10/30/08 03:22/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/30/08 03:22/eli-c
DATA QUALITY									
A/C Balance (± 5)	0.620	%					1	A1030 E	12/10/08 00:00/jmh
Anions	32.7	meq/L					1	A1030 E	12/10/08 00:00/jmh
Cations	33.1	meq/L					1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	2140	mg/L					1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.780						1	A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

L - Lowest available reporting limit for the analytical method used.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-008
Client Sample ID: DewBurd GW689

Report Date: 12/29/08
Collection Date: 10/20/08 14:46
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	152	mg/L		5		1	A2320 B	10/27/08 16:01/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 16:01/mb
Bicarbonate as HCO3	185	mg/L		5		1	A2320 B	10/27/08 16:01/mb
Calcium	44.4	mg/L		0.5		2	E200.7	11/05/08 17:57/eli-c
Chloride	5	mg/L		1		1	E300.0	10/23/08 02:48/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	10/23/08 02:48/jmh
Magnesium	14.9	mg/L		0.5		2	E200.7	11/05/08 17:57/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:04/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 02:48/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 02:48/jmh
Potassium	7.5	mg/L		0.5		2	E200.7	11/05/08 17:57/eli-c
Sodium	174	mg/L	D	2		2	E200.7	11/05/08 17:57/eli-c
Sulfate	392	mg/L	D	3		50	E300.0	10/23/08 01:59/jmh
Silica	9.3	mg/L		0.2		2	E200.7	11/05/08 17:57/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1110	umhos/cm		5.0		1	A2510 B	10/28/08 17:23/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.11	s.u.		0.01		1	A4500-H B	10/28/08 13:46/tb
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	730	mg/L		5		1	A2540 C	10/24/08 15:47/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 17:57/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/05/08 06:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 06:53/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 17:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 06:53/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 06:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 06:53/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 17:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 06:53/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	11/05/08 06:53/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 06:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 06:53/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 06:53/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 09:59/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 15:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 06:53/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-008
Client Sample ID: DewBurd GW689

Report Date: 12/29/08
Collection Date: 10/20/08 14:46
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	0.0031	mg/L		0.0003		1	E200.8	11/05/08 06:53/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 06:53/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 06:53/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 15:53/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:57/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	40.0	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha precision (±)	3.9	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha MDC	2.5	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta	12.9	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta precision (±)	1.9	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta MDC	2.9	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Lead 210	-0.3	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.7	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	6.4	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	960	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.2	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.1	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 13:02/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-008
 Client Sample ID: DewBurd GW689

Report Date: 12/29/08
 Collection Date: 10/20/08 14:46
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.2	pCi/L	U	0.2			1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.02	pCi/L					1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	2410	pCi/L		100			1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	94.0	pCi/L					1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/30/08 00:18/eli-c
Arsenic	0.004	mg/L	L	0.003			1	E200.8	10/30/08 00:18/eli-c
Barium	ND	mg/L		0.1			1	E200.8	10/30/08 00:18/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	10/30/08 00:18/eli-c
Boron	ND	mg/L		0.1			2	E200.7	11/05/08 21:10/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	10/30/08 00:18/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	10/30/08 00:18/eli-c
Copper	ND	mg/L		0.01			1	E200.8	10/30/08 00:18/eli-c
Iron	0.61	mg/L		0.03			2	E200.7	11/05/08 21:10/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/30/08 00:18/eli-c
Manganese	0.05	mg/L		0.01			1	E200.8	10/30/08 00:18/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/27/08 09:51/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	10/30/08 00:18/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	10/30/08 00:18/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/30/08 00:18/eli-c
Silver	ND	mg/L		0.005			1	E200.8	10/30/08 00:18/eli-c
Strontium	0.8	mg/L		0.1			1	E200.8	10/30/08 00:18/eli-c
Thallium	0.002	mg/L		0.001			1	E200.8	10/30/08 00:18/eli-c
Uranium	0.0035	mg/L		0.0003			1	E200.8	10/30/08 00:18/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	10/30/08 00:18/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.720	%					1	A1030 E	12/10/08 00:00/jmh
Anions	11.4	meq/L					1	A1030 E	12/10/08 00:00/jmh
Cations	11.2	meq/L					1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	755	mg/L					1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	12/10/08 00:00/jmh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-009
Client Sample ID: DewBurd GW681

Report Date: 12/29/08
Collection Date: 10/20/08 15:00
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	176	mg/L		5		1	A2320 B	10/27/08 16:02/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/27/08 16:02/mb
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B	10/27/08 16:02/mb
Calcium	61.4	mg/L		0.5		2	E200.7	11/05/08 18:01/eli-c
Chloride	17	mg/L		1		1	E300.0	10/23/08 03:21/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	10/23/08 03:21/jmh
Magnesium	23.2	mg/L		0.5		2	E200.7	11/05/08 18:01/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:05/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 03:21/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 03:21/jmh
Potassium	9.5	mg/L		0.5		2	E200.7	11/05/08 18:01/eli-c
Sodium	216	mg/L	D	2		2	E200.7	11/05/08 18:01/eli-c
Sulfate	491	mg/L	D	3		50	E300.0	10/23/08 03:05/jmh
Silica	8.5	mg/L		0.2		2	E200.7	11/05/08 18:01/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1380	umhos/cm		5.0		1	A2510 B	10/28/08 17:24/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.06	s.u.		0.01		1	A4500-H B	10/28/08 13:47/tb
Sodium Adsorption Ratio (SAR)	6.0	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5		1	A2540 C	10/24/08 15:48/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 18:01/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	11/05/08 07:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 07:00/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 18:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 07:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 07:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 07:00/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 18:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 07:00/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	11/05/08 07:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 07:00/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 07:00/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 07:00/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 10:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 15:17/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 07:00/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-009
 Client Sample ID: DewBurd GW681

Report Date: 12/29/08
 Collection Date: 10/20/08 15:00
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0094	mg/L		0.0003		1	E200.8	11/05/08 07:00/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/05/08 07:00/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/05/08 07:00/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 16:14/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 14:59/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1440	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha precision (±)	24.5	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Alpha MDC	3.1	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta	412	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta precision (±)	6.6	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Gross Beta MDC	4.1	pCi/L				1	E900.0	11/22/08 01:24/eli-c
Lead 210	22.6	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	5.1	pCi/L		1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	1.8	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	356	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Radium 226 precision (±)	3.5	pCi/L				1	E903.0	11/11/08 00:38/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	11/20/08 08:50/eli-c
Gross Gamma	22000	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	570	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	18.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.3	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	1.5	pCi/L		1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.80	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	1.3	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 13:02/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-009
 Client Sample ID: DewBurd GW681

Report Date: 12/29/08
 Collection Date: 10/20/08 15:00
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.2	pCi/L	U	0.2			1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.02	pCi/L					1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	344000	pCi/L		100			1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	809	pCi/L					1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	11/05/08 17:52/eli-c
Arsenic	0.003	mg/L		0.001			1	E200.8	11/05/08 17:52/eli-c
Barium	ND	mg/L		0.1			2	E200.7	11/05/08 19:28/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	11/05/08 17:52/eli-c
Boron	ND	mg/L		0.1			2	E200.7	11/05/08 19:28/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/05/08 17:52/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	11/05/08 19:28/eli-c
Copper	ND	mg/L		0.01			2	E200.7	11/05/08 19:28/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	11/05/08 19:28/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/05/08 17:52/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	11/05/08 19:28/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/27/08 09:53/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	11/05/08 19:28/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	11/05/08 19:28/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	11/05/08 17:52/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/05/08 17:52/eli-c
Strontium	1.2	mg/L		0.1			2	E200.7	11/05/08 19:28/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	11/05/08 17:52/eli-c
Uranium	0.0102	mg/L		0.0003			1	E200.8	11/06/08 16:47/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	11/05/08 19:28/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.42	%					1	A1030 E	12/10/08 00:00/jmh
Anions	14.2	meq/L					1	A1030 E	12/10/08 00:00/jmh
Cations	14.6	meq/L					1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	947	mg/L					1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930						1	A1030 E	12/10/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 27 of 42
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-010
 Client Sample ID: DewBurd GW615

Report Date: 12/29/08
 Collection Date: 10/20/08 16:20
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	136	mg/L		5		1	A2320 B	10/29/08 11:16/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/08 11:16/mb
Bicarbonate as HCO3	166	mg/L		5		1	A2320 B	10/29/08 11:16/mb
Calcium	71.0	mg/L		0.5		2	E200.7	11/05/08 18:05/eli-c
Chloride	5	mg/L		1		1	E300.0	10/23/08 03:54/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	10/23/08 03:54/jmh
Magnesium	20.7	mg/L		0.5		2	E200.7	11/05/08 18:05/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:06/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 03:54/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 03:54/jmh
Potassium	8.7	mg/L		0.5		2	E200.7	11/05/08 18:05/eli-c
Sodium	133	mg/L	D	2		2	E200.7	11/05/08 18:05/eli-c
Sulfate	414	mg/L	D	3		50	E300.0	10/23/08 03:37/jmh
Silica	8.7	mg/L		0.2		2	E200.7	11/05/08 18:05/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1100	umhos/cm		5.0		1	A2510 B	10/28/08 17:25/tb
Oxidation-Reduction Potential	250	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	10/28/08 13:49/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	720	mg/L		5		1	A2540 C	10/24/08 15:48/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 18:05/eli-c
Arsenic	0.012	mg/L		0.001		1	E200.8	11/05/08 07:07/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/05/08 07:07/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 18:05/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 07:07/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/05/08 07:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 07:07/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	11/05/08 18:05/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 07:07/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	11/05/08 07:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 07:07/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/05/08 07:07/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/05/08 07:07/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 10:04/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 15:23/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 07:07/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-010
Client Sample ID: DewBurd GW615

Report Date: 12/29/08
Collection Date: 10/20/08 16:20
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0023	mg/L		0.0003		1 E200.8	11/05/08 07:07/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	11/05/08 07:07/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	11/05/08 07:07/eli-c
METALS - SUSPENDED							
Uranium	0.0032	mg/L		0.0003		1 E200.8	11/06/08 16:18/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	10/30/08 15:02/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	20.9	pCi/L				1 E900.0	11/22/08 01:24/eli-ce
Gross Alpha precision (±)	2.9	pCi/L				1 E900.0	11/22/08 01:24/eli-ce
Gross Alpha MDC	2.4	pCi/L				1 E900.0	11/22/08 01:24/eli-ce
Gross Beta	12.0	pCi/L				1 E900.0	11/22/08 01:24/eli-ce
Gross Beta precision (±)	2.1	pCi/L				1 E900.0	11/22/08 01:24/eli-ce
Gross Beta MDC	3.2	pCi/L				1 E900.0	11/22/08 01:24/eli-ce
Lead 210	-1	pCi/L	U			1 E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.6	pCi/L				1 E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1 E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1 RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1 RMO-3008	11/19/08 09:23/eli-c
Radium 226	2.7	pCi/L				1 E903.0	11/11/08 02:30/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	11/11/08 02:30/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	11/20/08 08:50/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E907.0	11/20/08 08:50/eli-c
Gross Gamma	1100	pCi/L				1 E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1 E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-3	pCi/L	U			1 E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1 E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1 E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.22	pCi/L				1 RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.1	pCi/L	U			1 E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	11/11/08 13:02/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-010
 Client Sample ID: DewBurd GW615

Report Date: 12/29/08
 Collection Date: 10/20/08 16:20
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	1890	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	87.8	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	11/05/08 17:59/eli-c
Arsenic	0.024	mg/L		0.001		1	E200.8	11/05/08 17:59/eli-c
Barium	ND	mg/L		0.1		2	E200.7	11/05/08 19:32/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	11/05/08 17:59/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 19:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 17:59/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	11/05/08 19:32/eli-c
Copper	ND	mg/L		0.01		2	E200.7	11/05/08 19:32/eli-c
Iron	1.34	mg/L		0.03		2	E200.7	11/05/08 19:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 17:59/eli-c
Manganese	0.07	mg/L		0.01		2	E200.7	11/05/08 19:32/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 09:56/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	11/05/08 19:32/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	11/05/08 19:32/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	11/05/08 17:59/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 17:59/eli-c
Strontium	1.4	mg/L		0.1		2	E200.7	11/05/08 19:32/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	11/05/08 17:59/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	11/06/08 17:08/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	11/05/08 19:32/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.01	%				1	A1030 E	12/10/08 00:00/jmh
Anions	11.5	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	11.3	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	758	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-011
Client Sample ID: DewBurd GW697

Report Date: 12/29/08
Collection Date: 10/21/08 09:45
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	10/29/08 11:18/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/08 11:18/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	10/29/08 11:18/mb
Calcium	52.9	mg/L		0.5		2	E200.7	11/05/08 18:56/eli-c
Chloride	8	mg/L		1		1	E300.0	10/23/08 04:27/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	10/23/08 04:27/jmh
Magnesium	17.3	mg/L		0.5		2	E200.7	11/05/08 18:56/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:07/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 04:27/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 04:27/jmh
Potassium	8.4	mg/L		0.5		2	E200.7	11/05/08 18:56/eli-c
Sodium	210	mg/L	D	2		2	E200.7	11/05/08 18:56/eli-c
Sulfate	560	mg/L	D	3		50	E300.0	10/23/08 04:10/jmh
Silica	9.3	mg/L		0.2		2	E200.7	11/05/08 18:56/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1280	umhos/cm		5.0		1	A2510 B	10/28/08 17:28/tb
Oxidation-Reduction Potential	210	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.15	s.u.		0.01		1	A4500-H B	10/28/08 13:52/tb
Sodium Adsorption Ratio (SAR)	6.4	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C	10/24/08 15:49/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 18:56/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/05/08 15:57/eli-c
Barium	ND	mg/L		0.1		2	E200.7	11/05/08 18:56/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 18:56/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 15:57/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	11/05/08 18:56/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 15:57/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	11/05/08 18:56/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 15:57/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	11/05/08 18:56/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 15:57/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	11/05/08 18:56/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	11/05/08 18:56/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 10:06/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 15:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 15:57/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-011
Client Sample ID: DewBurd GW697

Report Date: 12/29/08
Collection Date: 10/21/08 09:45
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 17:12/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	11/05/08 18:56/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	11/05/08 18:56/eli-c
METALS - SUSPENDED								
Uranium	0.0006	mg/L		0.0003		1	E200.8	11/06/08 16:22/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 15:04/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	7.3	pCi/L				1	E900.0	11/24/08 07:45/eli-c
Gross Alpha precision (±)	2.4	pCi/L				1	E900.0	11/24/08 07:45/eli-c
Gross Alpha MDC	2.9	pCi/L				1	E900.0	11/24/08 07:45/eli-c
Gross Beta	3.6	pCi/L	U			1	E900.0	11/24/08 07:45/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	11/24/08 07:45/eli-c
Gross Beta MDC	3.6	pCi/L				1	E900.0	11/24/08 07:45/eli-c
Lead 210	-2	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	0.6	pCi/L				1	E903.0	11/11/08 02:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/11/08 02:30/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 13:36/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	11/20/08 13:36/eli-c
Gross Gamma	1700	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	240	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.27	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	0.05	pCi/L	U			1	E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 13:02/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-011
Client Sample ID: DewBurd GW697

Report Date: 12/29/08
Collection Date: 10/21/08 09:45
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	319	pCi/L		100			1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	60.7	pCi/L					1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	11/05/08 18:06/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	11/05/08 18:06/eli-c
Barium	ND	mg/L		0.1			2	E200.7	11/05/08 19:49/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	11/05/08 18:06/eli-c
Boron	ND	mg/L		0.1			2	E200.7	11/05/08 19:49/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/05/08 18:06/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	11/05/08 19:49/eli-c
Copper	ND	mg/L		0.01			2	E200.7	11/05/08 19:49/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	11/05/08 19:49/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/05/08 18:06/eli-c
Manganese	0.06	mg/L		0.01			2	E200.7	11/05/08 19:49/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/27/08 12:41/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	11/05/08 19:49/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	11/05/08 19:49/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	11/05/08 18:06/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/05/08 18:06/eli-c
Strontium	1.1	mg/L		0.1			2	E200.7	11/05/08 19:49/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	11/05/08 18:06/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	11/06/08 17:16/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	11/05/08 19:49/eli-c
DATA QUALITY									
A/C Balance (± 5)	-6.31	%					1	A1030 E	12/10/08 00:00/jmh
Anions	15.2	meq/L					1	A1030 E	12/10/08 00:00/jmh
Cations	13.4	meq/L					1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	983	mg/L					1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03						1	A1030 E	12/10/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-012
Client Sample ID: DewBurd GW695

Report Date: 12/29/08
Collection Date: 10/21/08 09:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B	10/29/08 11:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/08 11:22/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B	10/29/08 11:22/mb
Calcium	51.4	mg/L		0.5		2	E200.7	11/05/08 19:08/eli-c
Chloride	13	mg/L		1		1	E300.0	10/23/08 06:05/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	10/23/08 06:05/jmh
Magnesium	18.5	mg/L		0.5		2	E200.7	11/05/08 19:08/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 06:05/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 06:05/jmh
Potassium	8.5	mg/L		0.5		2	E200.7	11/05/08 19:08/eli-c
Sodium	246	mg/L	D	2		2	E200.7	11/05/08 19:08/eli-c
Sulfate	478	mg/L	D	3		50	E300.0	10/23/08 05:16/jmh
Silica	8.8	mg/L		0.2		2	E200.7	11/05/08 19:08/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1440	umhos/cm		5.0		1	A2510 B	10/28/08 17:30/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.07	s.u.		0.01		1	A4500-H B	10/28/08 13:54/tb
Sodium Adsorption Ratio (SAR)	7.5	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C	10/24/08 15:49/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 19:08/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/05/08 16:04/eli-c
Barium	ND	mg/L		0.1		2	E200.7	11/05/08 19:08/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 19:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 16:04/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	11/05/08 19:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 16:04/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 19:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 16:04/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7	11/05/08 19:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 16:04/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	11/05/08 19:08/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	11/05/08 19:08/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 10:13/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 16:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 16:04/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-012
Client Sample ID: DewBurd GW695

Report Date: 12/29/08
Collection Date: 10/21/08 09:10
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0030	mg/L		0.0003		1 E200.8	11/06/08 17:20/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	11/05/08 19:08/eli-c
Zinc	0.02	mg/L		0.01		2 E200.7	11/05/08 19:08/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	11/06/08 16:26/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	10/30/08 15:11/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	27.8	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Gross Alpha precision (±)	3.9	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Gross Alpha MDC	3.1	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Gross Beta	11.6	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Gross Beta precision (±)	2.6	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Gross Beta MDC	4.1	pCi/L				1 E900.0	11/24/08 07:45/eli-ca
Lead 210	-0.4	pCi/L	U			1 E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.7	pCi/L				1 E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1 E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1 RMO-3008	11/19/08 09:23/eli-c
Radium 226	4.0	pCi/L				1 E903.0	11/11/08 02:30/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	11/11/08 02:30/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	11/20/08 13:36/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	11/20/08 13:36/eli-c
Gross Gamma	1100	pCi/L				1 E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	250	pCi/L				1 E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-1	pCi/L	U			1 E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1 E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1 E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.22	pCi/L				1 RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.3	pCi/L	U			1 E903.0	11/11/08 13:02/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	11/11/08 13:02/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	11/11/08 13:02/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-012
 Client Sample ID: DewBurd GW695

Report Date: 12/29/08
 Collection Date: 10/21/08 09:10
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1860	pCi/L		100			1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	79.1	pCi/L					1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	11/05/08 18:13/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	11/05/08 18:13/eli-c
Barium	ND	mg/L		0.1			2	E200.7	11/05/08 19:53/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	11/05/08 18:13/eli-c
Boron	ND	mg/L		0.1			2	E200.7	11/05/08 19:53/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	11/05/08 18:13/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	11/05/08 19:53/eli-c
Copper	ND	mg/L		0.01			2	E200.7	11/05/08 19:53/eli-c
Iron	0.16	mg/L		0.03			2	E200.7	11/05/08 19:53/eli-c
Lead	ND	mg/L		0.001			1	E200.8	11/05/08 18:13/eli-c
Manganese	0.08	mg/L		0.01			2	E200.7	11/05/08 19:53/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/27/08 12:48/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	11/05/08 19:53/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	11/05/08 19:53/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	11/05/08 18:13/eli-c
Silver	ND	mg/L		0.005			1	E200.8	11/05/08 18:13/eli-c
Strontium	0.9	mg/L		0.1			2	E200.7	11/05/08 19:53/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	11/05/08 18:13/eli-c
Uranium	0.0030	mg/L		0.0003			1	E200.8	11/06/08 17:25/eli-c
Zinc	0.01	mg/L		0.01			2	E200.7	11/05/08 19:53/eli-c
DATA QUALITY									
A/C Balance (± 5)	4.33	%					1	A1030 E	12/10/08 00:00/jmh
Anions	13.8	meq/L					1	A1030 E	12/10/08 00:00/jmh
Cations	15.0	meq/L					1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	942	mg/L					1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.15						1	A1030 E	12/10/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-013
Client Sample ID: DewBurd GW694

Report Date: 12/29/08
Collection Date: 10/21/08 08:25
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	202	mg/L		5		1	A2320 B	10/29/08 11:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/08 11:24/mb
Bicarbonate as HCO3	246	mg/L		5		1	A2320 B	10/29/08 11:24/mb
Calcium	98.8	mg/L		0.5		2	E200.7	11/05/08 19:16/eli-c
Chloride	9	mg/L		1		1	E300.0	10/23/08 06:38/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	10/23/08 06:38/jmh
Magnesium	36.5	mg/L		0.5		2	E200.7	11/05/08 19:16/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:10/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 06:38/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 06:38/jmh
Potassium	12.9	mg/L		0.5		2	E200.7	11/05/08 19:16/eli-c
Sodium	177	mg/L	D	2		2	E200.7	11/05/08 19:16/eli-c
Sulfate	519	mg/L	D	3		50	E300.0	10/23/08 06:22/jmh
Silica	9.3	mg/L		0.2		2	E200.7	11/05/08 19:16/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1450	umhos/cm		5.0		1	A2510 B	10/28/08 17:31/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	10/27/08 19:00/jmh
pH	7.96	s.u.		0.01		1	A4500-H B	10/28/08 13:56/tb
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C	10/24/08 15:50/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 19:16/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/05/08 16:11/eli-c
Barium	ND	mg/L		0.1		2	E200.7	11/05/08 19:16/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 19:16/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 16:11/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	11/05/08 19:16/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 16:11/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 19:16/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 16:11/eli-c
Manganese	0.16	mg/L		0.01		2	E200.7	11/05/08 19:16/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 16:11/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	11/05/08 19:16/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	11/05/08 19:16/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 10:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 16:11/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 16:11/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-013
Client Sample ID: DewBurd GW694

Report Date: 12/29/08
Collection Date: 10/21/08 08:25
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0006	mg/L		0.0003		1	E200.8	11/06/08 17:29/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	11/05/08 19:16/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	11/05/08 19:16/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 16:31/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 15:13/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	9.1	pCi/L				1	E900.0	11/24/08 07:45/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	11/24/08 07:45/eli-c
Gross Alpha MDC	3.3	pCi/L				1	E900.0	11/24/08 07:45/eli-c
Gross Beta	11.1	pCi/L				1	E900.0	11/24/08 07:45/eli-c
Gross Beta precision (±)	2.6	pCi/L				1	E900.0	11/24/08 07:45/eli-c
Gross Beta MDC	4.1	pCi/L				1	E900.0	11/24/08 07:45/eli-c
Lead 210	-1	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	1.4	pCi/L				1	E903.0	11/11/08 02:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/11/08 02:30/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 13:36/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 13:36/eli-c
Gross Gamma	1200	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	260	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/13/08 12:40/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1	RMO-3008	11/13/08 12:40/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	11/11/08 14:35/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/11/08 14:35/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 14:35/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-013
Client Sample ID: DewBurd GW694

Report Date: 12/29/08
Collection Date: 10/21/08 08:25
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	281	pCi/L		100		1	D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	60.8	pCi/L				1	D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	11/05/08 18:47/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/05/08 18:47/eli-c
Barium	ND	mg/L		0.1		2	E200.7	11/05/08 19:57/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	11/05/08 18:47/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 19:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 18:47/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	11/05/08 19:57/eli-c
Copper	ND	mg/L		0.01		2	E200.7	11/05/08 19:57/eli-c
Iron	0.17	mg/L		0.03		2	E200.7	11/05/08 19:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 18:47/eli-c
Manganese	0.16	mg/L		0.01		2	E200.7	11/05/08 19:57/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/27/08 12:50/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	11/05/08 19:57/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	11/05/08 19:57/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	11/05/08 18:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 18:47/eli-c
Strontium	2.8	mg/L		0.1		2	E200.7	11/05/08 19:57/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	11/05/08 18:47/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	11/06/08 17:33/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	11/05/08 19:57/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.88	%				1	A1030 E	12/10/08 00:00/jmh
Anions	15.1	meq/L				1	A1030 E	12/10/08 00:00/jmh
Cations	16.0	meq/L				1	A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	999	mg/L				1	A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06					1	A1030 E	12/10/08 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-014
Client Sample ID: DewBurd GW696

Report Date: 12/29/08
Collection Date: 10/21/08 08:45
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	10/29/08 11:27/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/08 11:27/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	10/29/08 11:27/mb
Calcium	30.3	mg/L		0.5		2	E200.7	11/05/08 19:20/eli-c
Chloride	13	mg/L		1		1	E300.0	10/23/08 07:11/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	10/23/08 07:11/jmh
Magnesium	10.6	mg/L		0.5		2	E200.7	11/05/08 19:20/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	10/23/08 18:11/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/23/08 07:11/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/23/08 07:11/jmh
Potassium	8.9	mg/L		0.5		2	E200.7	11/05/08 19:20/eli-c
Sodium	282	mg/L	D	2		2	E200.7	11/05/08 19:20/eli-c
Sulfate	493	mg/L	D	3		50	E300.0	10/23/08 06:54/jmh
Silica	9.8	mg/L		0.2		2	E200.7	11/05/08 19:20/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1490	umhos/cm		5.0		1	A2510 B	10/28/08 17:32/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	10/27/08 19:00/jmh
pH	8.26	s.u.		0.01		1	A4500-H B	10/28/08 13:58/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	12/10/08 17:07/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C	10/24/08 15:50/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	11/05/08 19:20/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/05/08 16:18/eli-c
Barium	ND	mg/L		0.1		2	E200.7	11/05/08 19:20/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/05/08 19:20/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/05/08 16:18/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	11/05/08 19:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/05/08 16:18/eli-c
Iron	ND	mg/L		0.03		2	E200.7	11/05/08 19:20/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/05/08 16:18/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	11/05/08 19:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/05/08 16:18/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	11/05/08 19:20/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	11/05/08 19:20/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	10/31/08 10:18/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/05/08 16:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/05/08 16:18/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08100295-014
 Client Sample ID: DewBurd GW696

Report Date: 12/29/08
 Collection Date: 10/21/08 08:45
 Date Received: 10/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 17:37/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	11/05/08 19:20/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	11/05/08 19:20/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/06/08 16:43/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/30/08 15:15/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/08 10:28/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	9.8	pCi/L				1	E900.0	11/24/08 07:45/eli-ce
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	11/24/08 07:45/eli-ce
Gross Alpha MDC	3.3	pCi/L				1	E900.0	11/24/08 07:45/eli-ce
Gross Beta	9.1	pCi/L				1	E900.0	11/24/08 07:45/eli-ce
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	11/24/08 07:45/eli-ce
Gross Beta MDC	3.6	pCi/L				1	E900.0	11/24/08 07:45/eli-ce
Lead 210	-1	pCi/L	U			1	E909.0M	11/06/08 09:13/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	11/06/08 09:13/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	11/19/08 09:23/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	11/19/08 09:23/eli-c
Radium 226	0.8	pCi/L				1	E903.0	11/11/08 02:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/11/08 02:30/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	11/20/08 13:36/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	11/20/08 13:36/eli-c
Gross Gamma	1100	pCi/L				1	E901.1	10/27/08 11:00/eli-c
Gross Gamma precision (±)	210	pCi/L				1	E901.1	10/27/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.7	pCi/L	U			1	E909.0M	11/11/08 10:15/eli-c
Lead 210 precision (±)	4.0	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Lead 210 MDC	6.8	pCi/L				1	E909.0M	11/11/08 10:15/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	11/13/08 15:31/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	11/13/08 15:31/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	11/11/08 14:35/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/08 14:35/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	11/11/08 14:35/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08100295-014
Client Sample ID: DewBurd GW696

Report Date: 12/29/08
Collection Date: 10/21/08 08:45
Date Received: 10/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	-0.3	pCi/L	U	0.2		1 E907.0	11/07/08 14:30/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1 E907.0	11/07/08 14:30/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	260	pCi/L		100		1 D5072-92	10/24/08 12:24/eli-c
Radon 222 precision (±)	60.4	pCi/L				1 D5072-92	10/24/08 12:24/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	11/05/08 18:53/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	11/05/08 18:53/eli-c
Barium	ND	mg/L		0.1		2 E200.7	11/05/08 20:01/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	11/05/08 18:53/eli-c
Boron	ND	mg/L		0.1		2 E200.7	11/05/08 20:01/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	11/05/08 18:53/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	11/05/08 20:01/eli-c
Copper	ND	mg/L		0.01		2 E200.7	11/05/08 20:01/eli-c
Iron	0.13	mg/L		0.03		2 E200.7	11/05/08 20:01/eli-c
Lead	ND	mg/L		0.001		1 E200.8	11/05/08 18:53/eli-c
Manganese	0.06	mg/L		0.01		2 E200.7	11/05/08 20:01/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	10/27/08 12:53/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	11/05/08 20:01/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	11/05/08 20:01/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	11/05/08 18:53/eli-c
Silver	ND	mg/L		0.005		1 E200.8	11/05/08 18:53/eli-c
Strontium	0.8	mg/L		0.1		2 E200.7	11/05/08 20:01/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	11/05/08 18:53/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	11/06/08 18:06/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	11/05/08 20:01/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.18	%				1 A1030 E	12/10/08 00:00/jmh
Anions	14.3	meq/L				1 A1030 E	12/10/08 00:00/jmh
Cations	14.9	meq/L				1 A1030 E	12/10/08 00:00/jmh
Solids, Total Dissolved Calculated	973	mg/L				1 A1030 E	12/10/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970					1 A1030 E	12/10/08 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 42 of 42
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 081027A-ALK-SEL-W		
Sample ID: LCS1_081027A Alkalinity, Total as CaCO3	Laboratory Control Sample 976	mg/L	5.0	98	90	110			Run: PH_COND1-R_081027B 10/27/08 14:01
Sample ID: MBLK1_081027A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_081027B 10/27/08 14:04
Sample ID: R08100295-001AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 116	mg/L	5.0	109	80	120			Run: PH_COND1-R_081027B 10/27/08 15:42
Sample ID: R08100295-001AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 118	mg/L	5.0	111	80	120	1.7	10	Run: PH_COND1-R_081027B 10/27/08 15:44
Method: A2320 B							Batch: 081029A-ALK-SEL-W		
Sample ID: LCS1_081029A Alkalinity, Total as CaCO3	Laboratory Control Sample 936	mg/L	5.0	94	90	110			Run: PH_COND1-R_081029A 10/29/08 11:04
Sample ID: MBLK1_081029A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						Run: PH_COND1-R_081029A 10/29/08 11:09
Sample ID: R08100308-003AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 276	mg/L	5.0	109	80	120			Run: PH_COND1-R_081029A 10/29/08 11:49
Sample ID: R08100308-003AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 276	mg/L	5.0	109	80	120	0	10	Run: PH_COND1-R_081029A 10/29/08 11:52
Method: A2510 B							Batch: 081028_1_COND-PROBE-W		
Sample ID: LCS_COND-1_081028 Conductivity @ 25 C	Laboratory Control Sample 1440	umhos/cm	5.0	102	90	110			Run: PH_COND2-R_081028B 10/28/08 16:56
Sample ID: LCS1-1_081028 Conductivity @ 25 C	Laboratory Control Sample 154	umhos/cm	5.0	103	90	110			Run: PH_COND2-R_081028B 10/28/08 16:58
Sample ID: LCS2-1_081028 Conductivity @ 25 C	Laboratory Control Sample 4990	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_081028B 10/28/08 16:59
Sample ID: MBLK-1_081028 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_081028B 10/28/08 17:03
Sample ID: R08100295-010ADUP Conductivity @ 25 C	Sample Duplicate 1110	umhos/cm	5.0				0.9	10	Run: PH_COND2-R_081028B 10/28/08 17:27

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 081024A-SLDS-TDS-W		
Sample ID: LCS1_081024A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	190	mg/L	5.0	93	90	110			10/24/08 15:25
Sample ID: MBLK1_081024A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						10/24/08 15:26
Sample ID: R08100290-007AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	2800	mg/L	5.0	113	80	120			10/24/08 15:42
Sample ID: R08100290-007AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	2700	mg/L	5.0	83	80	120	2.2	10	10/24/08 15:42
Sample ID: R08100295-006AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	95	80	120			10/24/08 15:46
Sample ID: R08100295-006AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	99	80	120	0.7	10	10/24/08 15:46
Sample ID: R08100297-002AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	970	mg/L	5.0	96	80	120			10/24/08 15:51
Sample ID: R08100297-002AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	125	80	120	5.8	10	10/24/08 15:52
Method: A2580 B							Batch: 081027-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample								
Oxidation-Reduction Potential	470	mV		98	95	105			10/27/08 19:00
Sample ID: R08100295-010F	Sample Duplicate								
Oxidation-Reduction Potential	260	mV					2.4	10	10/27/08 19:00
Sample ID: R08100295-014F	Sample Duplicate								
Oxidation-Reduction Potential	200	mV					1.3	10	10/27/08 19:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-081030B		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	0.0003			Run: SUB-C110108			10/30/08 14:25
Sample ID: 288-162-4 Selenium-IV	Laboratory Control Sample 0.055	mg/L	0.0010	109	90	110			10/30/08 14:27
Sample ID: R08100295-001E Selenium-IV	Sample Matrix Spike 0.051	mg/L	0.0010	101	85	115			10/30/08 14:34
Sample ID: R08100295-001E Selenium-IV	Sample Matrix Spike Duplicate 0.051	mg/L	0.0010	102	85	115	0.7	10	10/30/08 14:36
Sample ID: R08100295-011E Selenium-IV	Sample Matrix Spike 0.050	mg/L	0.0010	100	85	115			10/30/08 15:06
Sample ID: R08100295-011E Selenium-IV	Sample Matrix Spike Duplicate 0.051	mg/L	0.0010	101	85	115	1	10	10/30/08 15:08
Method: A3114 B							Batch: C_SE3114-081031A		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	0.0003			Run: SUB-C110150			10/31/08 09:27
Sample ID: 288-162-4 Selenium	Laboratory Control Sample 0.047	mg/L	0.0010	94	90	110			10/31/08 09:29
Sample ID: R08100295-001E Selenium	Sample Matrix Spike 0.051	mg/L	0.0010	102	85	115			10/31/08 09:36
Sample ID: R08100295-001E Selenium	Sample Matrix Spike Duplicate 0.052	mg/L	0.0010	104	85	115	1.8	15	10/31/08 09:38
Sample ID: R08100295-011E Selenium	Sample Matrix Spike 0.047	mg/L	0.0010	94	85	115			10/31/08 10:08
Sample ID: R08100295-011E Selenium	Sample Matrix Spike Duplicate 0.049	mg/L	0.0010	97	85	115	3.2	15	10/31/08 10:11
Method: A4500-H B							Batch: 081028_1_PH-W		
Sample ID: LCS_pH-1_081028 pH	Laboratory Control Sample 6.87	s.u.	0.010	100	98.55	101.45			10/28/08 13:13
Sample ID: R08100295-009ADUP pH	Sample Duplicate 8.07	s.u.	0.010			Run: PH_COND2-R_081028A	0.1	1.25	10/28/08 13:48

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-10-23_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_081023A		10/23/08 15:23	
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110			
						Run: TECHAA2-R_081023A		10/23/08 15:24	
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	107	90	110			
						Run: TECHAA2-R_081023A		10/23/08 15:25	
Sample ID: R08100291-003CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	96	80	120			
						Run: TECHAA2-R_081023A		10/23/08 17:47	
Sample ID: R08100291-003CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.23	mg/L	0.10	94	80	120	2.5	10	
						Run: TECHAA2-R_081023A		10/23/08 17:49	
Sample ID: R08100295-007BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.67	mg/L	0.10	92	80	120			
						Run: TECHAA2-R_081023A		10/23/08 18:02	
Sample ID: R08100295-007BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.67	mg/L	0.10	91	80	120	0.1	10	
						Run: TECHAA2-R_081023A		10/23/08 18:03	
Method: D5072-92							Batch: C_R109879		
Sample ID: R08100295-014G Radon 222	Sample Duplicate 260	pCi/L	100				0	30	
						Run: SUB-C109879		10/24/08 12:24	
Sample ID: MB-R109879 Radon 222	Method Blank 7	pCi/L						U	
						Run: SUB-C109879		10/24/08 12:24	
Sample ID: LCS-R109879 Radon 222	Laboratory Control Sample 300	pCi/L	100	99	70	130			
						Run: SUB-C109879		10/24/08 12:24	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_20305		
Sample ID: MB-20305	Method Blank				Run: SUB-C110446		11/05/08 20:17		
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Strontium	ND	mg/L	0.0004						
Sample ID: LCS3-20305	Laboratory Control Sample				Run: SUB-C110446		11/05/08 20:21		
Boron	0.503	mg/L	0.10	99	85	115			
Iron	2.74	mg/L	0.030	109	85	115			
Manganese	2.52	mg/L	0.010	101	85	115			
Strontium	0.525	mg/L	0.10	105	85	115			
Sample ID: R08100295-008D	Sample Matrix Spike				Run: SUB-C110446		11/05/08 21:14		
Boron	0.557	mg/L	0.10	98	70	130			
Iron	3.27	mg/L	0.030	106	70	130			
Manganese	2.54	mg/L	0.010	100	70	130			
Strontium	1.43	mg/L	0.10	99	70	130			
Sample ID: R08100295-008D	Sample Matrix Spike Duplicate				Run: SUB-C110446		11/05/08 21:18		
Boron	0.543	mg/L	0.10	95	70	130	2.6	20	
Iron	3.26	mg/L	0.030	106	70	130	0.5	20	
Manganese	2.50	mg/L	0.010	98	70	130	1.7	20	
Strontium	1.39	mg/L	0.10	91	70	130	3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R110446		
Sample ID: MB-081105A	Method Blank		Run: SUB-C110446				11/05/08 11:44		
Silicon	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.03	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	0.003	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Strontium	ND	mg/L	0.0002						
Vanadium	0.005	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Silica	ND	mg/L	0.04						
Sample ID: LFB-081105A	Laboratory Fortified Blank		Run: SUB-C110446				11/05/08 11:48		
Silicon	0.36	mg/L	0.021	89	85	125			
Aluminum	0.87	mg/L	0.10	87	85	125			
Barium	0.93	mg/L	0.10	93	85	125			
Boron	0.97	mg/L	0.10	94	85	125			
Calcium	49	mg/L	0.50	99	85	125			
Chromium	0.93	mg/L	0.050	93	85	125			
Copper	0.94	mg/L	0.010	94	85	125			
Iron	0.96	mg/L	0.030	96	85	125			
Magnesium	50	mg/L	0.50	100	85	125			
Manganese	0.94	mg/L	0.010	94	85	125			
Molybdenum	0.93	mg/L	0.10	92	85	125			
Nickel	0.93	mg/L	0.050	93	85	125			
Potassium	44	mg/L	0.50	87	85	125			
Sodium	47	mg/L	0.77	94	85	125			
Strontium	0.92	mg/L	0.10	92	85	125			
Vanadium	0.97	mg/L	0.10	96	85	125			
Zinc	0.92	mg/L	0.010	92	85	125			
Silica	0.76	mg/L	0.044	89	85	125			
Sample ID: R08100295-001C	Sample Matrix Spike		Run: SUB-C110446				11/05/08 17:08		
Aluminum	2.04	mg/L	0.10	102	70	130			
Barium	1.95	mg/L	0.10	98	70	130			
Boron	1.98	mg/L	0.10	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R110446		
Sample ID: R08100295-001C	Sample Matrix Spike			Run: SUB-C110446			11/05/08 17:08		
Chromium	1.95	mg/L	0.050	98	70	130			
Copper	1.94	mg/L	0.010	97	70	130			
Iron	1.96	mg/L	0.030	98	70	130			
Manganese	1.94	mg/L	0.010	97	70	130			
Molybdenum	2.14	mg/L	0.10	76	70	130			
Nickel	1.94	mg/L	0.050	97	70	130			
Silicon	0.845	mg/L	0.10	77	70	130			
Strontium	1.94	mg/L	0.10	97	70	130			
Vanadium	1.92	mg/L	0.10	96	70	130			
Zinc	1.95	mg/L	0.010	97	70	130			
Calcium	99.9	mg/L	1.0	100	70	130			
Magnesium	97.9	mg/L	1.0	98	70	130			
Potassium	92.1	mg/L	1.0	92	70	130			
Sodium	97.4	mg/L	1.5	97	70	130			
Silica	1.81	mg/L	0.21	76	70	130			
Sample ID: R08100295-001C	Sample Matrix Spike Duplicate			Run: SUB-C110446			11/05/08 17:12		
Aluminum	2.02	mg/L	0.10	100	70	130	1.3	20	
Barium	1.93	mg/L	0.10	96	70	130	1.3	20	
Boron	1.99	mg/L	0.10	99	70	130	0.1	20	
Chromium	1.94	mg/L	0.050	97	70	130	0.6	20	
Copper	1.94	mg/L	0.010	97	70	130	0.2	20	
Iron	1.96	mg/L	0.030	98	70	130	0.1	20	
Manganese	1.94	mg/L	0.010	97	70	130	0.3	20	
Molybdenum	2.05	mg/L	0.10	72	70	130	3.9	20	
Nickel	1.93	mg/L	0.050	96	70	130	0.7	20	
Silicon	0.808	mg/L	0.10	72	70	130	4.4	20	
Strontium	1.96	mg/L	0.10	98	70	130	0.9	20	
Vanadium	1.92	mg/L	0.10	96	70	130	0.1	20	
Zinc	1.95	mg/L	0.010	98	70	130	0.2	20	
Calcium	97.7	mg/L	1.0	98	70	130	2.2	20	
Magnesium	96.9	mg/L	1.0	97	70	130	1.1	20	
Potassium	92.2	mg/L	1.0	92	70	130	0.2	20	
Sodium	96.7	mg/L	1.5	97	70	130	0.7	20	
Silica	1.73	mg/L	0.21	72	70	130	4.4	20	
Sample ID: R08100295-011C	Sample Matrix Spike			Run: SUB-C110446			11/05/08 19:00		
Aluminum	1.82	mg/L	0.10	91	70	130			
Barium	1.95	mg/L	0.10	97	70	130			
Boron	2.11	mg/L	0.10	101	70	130			
Chromium	1.97	mg/L	0.050	98	70	130			
Copper	1.98	mg/L	0.010	99	70	130			
Iron	2.06	mg/L	0.030	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R110446		
Sample ID: R08100295-011C	Sample Matrix Spike		Run: SUB-C110446				11/05/08 19:00		
Manganese	2.00	mg/L	0.010	97	70	130			
Molybdenum	1.93	mg/L	0.10	97	70	130			
Nickel	1.97	mg/L	0.050	99	70	130			
Silicon	4.91	mg/L	0.10		70	130			A
Strontium	3.18	mg/L	0.10	102	70	130			
Vanadium	2.06	mg/L	0.10	103	70	130			
Zinc	1.98	mg/L	0.010	99	70	130			
Calcium	154	mg/L	1.0	101	70	130			
Magnesium	120	mg/L	1.0	103	70	130			
Potassium	98.3	mg/L	1.0	90	70	130			
Sodium	309	mg/L	1.5	99	70	130			
Silica	10.5	mg/L	0.21		70	130			A
Sample ID: R08100295-011C	Sample Matrix Spike Duplicate		Run: SUB-C110446				11/05/08 19:04		
Aluminum	1.89	mg/L	0.10	95	70	130	3.6	20	
Barium	1.97	mg/L	0.10	98	70	130	0.7	20	
Boron	2.14	mg/L	0.10	103	70	130	1.7	20	
Chromium	2.00	mg/L	0.050	100	70	130	1.4	20	
Copper	2.01	mg/L	0.010	100	70	130	1.1	20	
Iron	2.12	mg/L	0.030	104	70	130	2.7	20	
Manganese	2.02	mg/L	0.010	98	70	130	0.8	20	
Molybdenum	1.98	mg/L	0.10	99	70	130	2.4	20	
Nickel	1.98	mg/L	0.050	99	70	130	0.5	20	
Silicon	5.00	mg/L	0.10		70	130	1.9	20	A
Strontium	3.15	mg/L	0.10	101	70	130	0.8	20	
Vanadium	2.11	mg/L	0.10	105	70	130	2.2	20	
Zinc	2.02	mg/L	0.010	100	70	130	1.7	20	
Calcium	155	mg/L	1.0	102	70	130	0.7	20	
Magnesium	120	mg/L	1.0	103	70	130	0.2	20	
Potassium	97.5	mg/L	1.0	89	70	130	0.9	20	
Sodium	311	mg/L	1.5	101	70	130	0.8	20	
Silica	10.7	mg/L	0.21		70	130	1.9	20	A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20305		
Sample ID: MB-20305	Method Blank		Run: SUB-C110072				10/30/08 00:05		
Antimony	ND	mg/L	0.0002						
Arsenic	0.003	mg/L	6E-05						
Barium	0.0002	mg/L	4E-05						
Beryllium	ND	mg/L	0.0002						
Cadmium	2E-05	mg/L	2E-05						
Chromium	0.0008	mg/L	6E-05						
Copper	0.002	mg/L	3E-05						
Lead	0.0003	mg/L	5E-05						
Manganese	0.0002	mg/L	2E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	0.0002	mg/L	3E-05						
Selenium	ND	mg/L	0.0005						
Silver	ND	mg/L	2E-05						
Strontium	0.0002	mg/L	5E-06						
Thallium	0.0007	mg/L	4E-05						
Uranium	5E-05	mg/L	5E-05						
Zinc	0.04	mg/L	0.0005						
Sample ID: LCS3-20305	Laboratory Control Sample		Run: SUB-C110072				10/30/08 00:12		
Antimony	0.580	mg/L	0.050	116	85	115			
Arsenic	0.509	mg/L	0.0010	101	85	115			
Barium	0.534	mg/L	0.10	107	85	115			
Beryllium	0.245	mg/L	0.010	98	85	115			
Cadmium	0.274	mg/L	0.010	110	85	115			
Chromium	0.516	mg/L	0.050	103	85	115			
Copper	0.529	mg/L	0.010	106	85	115			
Lead	0.560	mg/L	0.050	112	85	115			
Manganese	2.39	mg/L	0.010	96	85	115			
Molybdenum	0.495	mg/L	0.10	99	85	115			
Nickel	0.496	mg/L	0.050	99	85	115			
Selenium	0.531	mg/L	0.0010	106	85	115			
Silver	0.0513	mg/L	0.010	103	85	115			
Strontium	0.475	mg/L	0.10	95	85	115			
Thallium	0.518	mg/L	0.10	103	85	115			
Uranium	0.556	mg/L	0.00030	111	85	115			
Zinc	0.520	mg/L	0.010	96	85	115			
Sample ID: R08100295-008D	Sample Matrix Spike		Run: SUB-C110072				10/30/08 00:25		
Antimony	0.590	mg/L	0.050	118	70	130			
Arsenic	0.510	mg/L	0.0010	101	70	130			
Barium	0.554	mg/L	0.10	108	70	130			
Beryllium	0.234	mg/L	0.010	93	70	130			
Cadmium	0.268	mg/L	0.010	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20305		
Sample ID: R08100295-008D	Sample Matrix Spike			Run: SUB-C110072			10/30/08 00:25		
Chromium	0.518	mg/L	0.050	103	70	130			
Copper	0.517	mg/L	0.010	103	70	130			
Lead	0.566	mg/L	0.050	113	70	130			
Manganese	2.42	mg/L	0.010	95	70	130			
Molybdenum	0.519	mg/L	0.10	103	70	130			
Nickel	0.490	mg/L	0.050	98	70	130			
Selenium	0.514	mg/L	0.0010	103	70	130			
Silver	0.0509	mg/L	0.010	102	70	130			
Strontium	1.37	mg/L	0.10	108	70	130			
Thallium	0.519	mg/L	0.10	103	70	130			
Uranium	0.577	mg/L	0.00030	115	70	130			
Zinc	0.491	mg/L	0.010	97	70	130			
Sample ID: R08100295-008D	Sample Matrix Spike Duplicate			Run: SUB-C110072			10/30/08 00:59		
Antimony	0.562	mg/L	0.050	112	70	130	4.8	20	
Arsenic	0.505	mg/L	0.0010	100	70	130	1	20	
Barium	0.554	mg/L	0.10	108	70	130	0.1	20	
Beryllium	0.229	mg/L	0.010	92	70	130	1.9	20	
Cadmium	0.264	mg/L	0.010	106	70	130	1.6	20	
Chromium	0.516	mg/L	0.050	103	70	130	0.3	20	
Copper	0.510	mg/L	0.010	102	70	130	1.3	20	
Lead	0.555	mg/L	0.050	111	70	130	1.9	20	
Manganese	2.39	mg/L	0.010	94	70	130	1.3	20	
Molybdenum	0.501	mg/L	0.10	99	70	130	3.6	20	
Nickel	0.483	mg/L	0.050	97	70	130	1.4	20	
Selenium	0.507	mg/L	0.0010	101	70	130	1.3	20	
Silver	0.0503	mg/L	0.010	100	70	130	1.2	20	
Strontium	1.34	mg/L	0.10	103	70	130	1.6	20	
Thallium	0.514	mg/L	0.10	103	70	130	0.9	20	
Uranium	0.559	mg/L	0.00030	111	70	130	3.2	20	
Zinc	0.486	mg/L	0.010	96	70	130	1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_20394
Sample ID: MB-20394	Method Blank								Run: SUB-C110508 11/06/08 14:59
Uranium	0.0003	mg/L	1E-05						
Sample ID: LCS1-20394	Laboratory Control Sample								Run: SUB-C110508 11/06/08 15:20
Uranium	0.101	mg/L	0.00030	100	80	120			
Sample ID: R08100295-013I	Post Digestion Spike								Run: SUB-C110508 11/06/08 16:35
Uranium	0.0135	mg/L	0.00030	107	70	130			
Sample ID: R08100295-013I	Post Digestion Spike Duplicate								Run: SUB-C110508 11/06/08 16:39
Uranium	0.0134	mg/L	0.00030	107	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R110382		
Sample ID: LRB	Method Blank		Run: SUB-C110382			11/04/08 14:15			
Aluminum	0.0006	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	0.00010	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	5E-05	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	9E-05	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	4E-05	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C110382			11/04/08 14:22			
Aluminum	0.0474	mg/L	0.0010	94	85	115			
Arsenic	0.0494	mg/L	0.0010	99	85	115			
Barium	0.0488	mg/L	0.0010	97	85	115			
Cadmium	0.0485	mg/L	0.0010	97	85	115			
Chromium	0.0479	mg/L	0.0010	96	85	115			
Copper	0.0485	mg/L	0.0010	97	85	115			
Lead	0.0484	mg/L	0.0010	97	85	115			
Manganese	0.0481	mg/L	0.0010	96	85	115			
Mercury	0.00483	mg/L	0.0010	97	85	115			
Molybdenum	0.0479	mg/L	0.0010	96	85	115			
Nickel	0.0482	mg/L	0.0010	96	85	115			
Thorium 232	0.0484	mg/L	0.0010	97	85	115			
Uranium	0.0484	mg/L	0.00030	97	85	115			
Vanadium	0.0480	mg/L	0.0010	96	85	115			
Zinc	0.0509	mg/L	0.0010	99	85	115			
Sample ID: R08100295-005C	Post Digestion Spike		Run: SUB-C110382			11/05/08 05:59			
Aluminum	0.0497	mg/L	0.10	75	70	130			
Arsenic	0.0441	mg/L	0.0010	86	70	130			
Barium	0.0515	mg/L	0.10	85	70	130			
Cadmium	0.0405	mg/L	0.010	81	70	130			
Chromium	0.0414	mg/L	0.050	82	70	130			
Copper	0.0417	mg/L	0.010	81	70	130			
Lead	0.0420	mg/L	0.050	84	70	130			
Manganese	0.0991	mg/L	0.010	84	70	130			
Mercury	0.00431	mg/L	0.0010	86	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R110382		
Sample ID: R08100295-005C	Post Digestion Spike			Run: SUB-C110382			11/05/08 05:59		
Molybdenum	0.0446	mg/L	0.10	88	70	130			
Nickel	0.0420	mg/L	0.050	82	70	130			
Thorium 232	0.0434	mg/L	0.0010	87	70	130			
Uranium	0.0433	mg/L	0.00030	86	70	130			
Vanadium	0.0423	mg/L	0.10	84	70	130			
Zinc	0.0460	mg/L	0.010	87	70	130			
Sample ID: R08100295-005C	Post Digestion Spike Duplicate			Run: SUB-C110382			11/05/08 06:05		
Aluminum	0.0544	mg/L	0.10	84	70	130	0	20	
Arsenic	0.0434	mg/L	0.0010	84	70	130	1.6	20	
Barium	0.0511	mg/L	0.10	84	70	130	0	20	
Cadmium	0.0406	mg/L	0.010	81	70	130	0.1	20	
Chromium	0.0417	mg/L	0.050	83	70	130	0	20	
Copper	0.0412	mg/L	0.010	81	70	130	1.2	20	
Lead	0.0421	mg/L	0.050	84	70	130	0	20	
Manganese	0.0986	mg/L	0.010	83	70	130	0.5	20	
Mercury	0.00437	mg/L	0.0010	87	70	130	1.3	20	
Molybdenum	0.0445	mg/L	0.10	88	70	130	0	20	
Nickel	0.0413	mg/L	0.050	81	70	130	0	20	
Thorium 232	0.0437	mg/L	0.0010	87	70	130	0.8	20	
Uranium	0.0437	mg/L	0.00030	87	70	130	0.9	20	
Vanadium	0.0425	mg/L	0.10	85	70	130	0	20	
Zinc	0.0456	mg/L	0.010	87	70	130	0.9	20	
Sample ID: R08100295-010C	Post Digestion Spike			Run: SUB-C110382			11/05/08 07:13		
Aluminum	0.0469	mg/L	0.10	89	70	130			
Arsenic	0.0590	mg/L	0.0010	94	70	130			
Barium	0.0550	mg/L	0.10	89	70	130			
Cadmium	0.0446	mg/L	0.010	89	70	130			
Chromium	0.0454	mg/L	0.050	90	70	130			
Copper	0.0464	mg/L	0.010	91	70	130			
Lead	0.0461	mg/L	0.050	92	70	130			
Manganese	0.113	mg/L	0.010	100	70	130			
Mercury	0.00466	mg/L	0.0010	93	70	130			
Molybdenum	0.0500	mg/L	0.10	97	70	130			
Nickel	0.0471	mg/L	0.050	91	70	130			
Thorium 232	0.0473	mg/L	0.0010	95	70	130			
Uranium	0.0495	mg/L	0.00030	95	70	130			
Vanadium	0.0462	mg/L	0.10	92	70	130			
Zinc	0.0473	mg/L	0.010	91	70	130			
Sample ID: R08100295-010C	Post Digestion Spike Duplicate			Run: SUB-C110382			11/05/08 07:20		
Aluminum	0.0478	mg/L	0.10	91	70	130	0	20	
Arsenic	0.0610	mg/L	0.0010	98	70	130	3.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R110382		
Sample ID: R08100295-010C	Post Digestion Spike Duplicate			Run: SUB-C110382			11/05/08 07:20		
Barium	0.0577	mg/L	0.10	95	70	130	0	20	
Cadmium	0.0457	mg/L	0.010	91	70	130	2.5	20	
Chromium	0.0466	mg/L	0.050	93	70	130	0	20	
Copper	0.0473	mg/L	0.010	93	70	130	1.9	20	
Lead	0.0477	mg/L	0.050	95	70	130	0	20	
Manganese	0.115	mg/L	0.010	103	70	130	1.4	20	
Mercury	0.00492	mg/L	0.0010	98	70	130	5.4	20	
Molybdenum	0.0512	mg/L	0.10	100	70	130	0	20	
Nickel	0.0479	mg/L	0.050	93	70	130	0	20	
Thorium 232	0.0492	mg/L	0.0010	98	70	130	3.9	20	
Uranium	0.0515	mg/L	0.00030	98	70	130	3.9	20	
Vanadium	0.0474	mg/L	0.10	95	70	130	0	20	
Zinc	0.0484	mg/L	0.010	93	70	130	2.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8										
Batch: C_R110432										
Sample ID: LRB	Method Blank		Run: SUB-C110432				11/05/08 13:09			
Antimony	0.0002	mg/L	7E-05							
Arsenic	0.0002	mg/L	6E-05							
Beryllium	ND	mg/L	3E-05							
Cadmium	ND	mg/L	1E-05							
Copper	ND	mg/L	7E-05							
Lead	ND	mg/L	3E-05							
Mercury	ND	mg/L	8E-05							
Selenium	ND	mg/L	0.0002							
Silver	ND	mg/L	3E-05							
Thallium	ND	mg/L	1E-05							
Thorium 232	ND	mg/L	4E-05							
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C110432				11/05/08 13:16			
Antimony	0.0519	mg/L	0.0010	103	85	115				
Arsenic	0.0532	mg/L	0.0010	106	85	115				
Beryllium	0.0519	mg/L	0.0010	104	85	115				
Cadmium	0.0528	mg/L	0.0010	106	85	115				
Copper	0.0532	mg/L	0.0010	106	85	115				
Lead	0.0529	mg/L	0.0010	106	85	115				
Mercury	0.00543	mg/L	0.0010	109	85	115				
Selenium	0.0531	mg/L	0.0010	106	85	115				
Silver	0.0207	mg/L	0.0010	104	85	115				
Thallium	0.0526	mg/L	0.0010	105	85	115				
Thorium 232	0.0565	mg/L	0.0010	113	85	115				
Sample ID: R08100295-010C	Post Digestion Spike		Run: SUB-C110432				11/05/08 15:44			
Antimony	0.0590	mg/L	0.050	118	70	130				
Arsenic	0.0690	mg/L	0.0010	112	70	130				
Beryllium	0.0477	mg/L	0.010	95	70	130				
Cadmium	0.0515	mg/L	0.010	103	70	130				
Copper	0.0487	mg/L	0.010	95	70	130				
Lead	0.0529	mg/L	0.050	106	70	130				
Mercury	0.00542	mg/L	0.0010	108	70	130				
Selenium	0.0525	mg/L	0.0010	105	70	130				
Silver	0.0164	mg/L	0.010	82	70	130				
Thallium	0.0529	mg/L	0.10	106	70	130				
Thorium 232	0.0577	mg/L	0.0010	115	70	130				
Sample ID: R08100295-010C	Post Digestion Spike Duplicate		Run: SUB-C110432				11/05/08 15:50			
Antimony	0.0592	mg/L	0.050	118	70	130	0.5	20		
Arsenic	0.0675	mg/L	0.0010	109	70	130	2.2	20		
Beryllium	0.0481	mg/L	0.010	96	70	130	0.9	20		
Cadmium	0.0512	mg/L	0.010	102	70	130	0.5	20		
Copper	0.0481	mg/L	0.010	94	70	130	1	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R110432		
Sample ID: R08100295-010C	Post Digestion Spike Duplicate			Run: SUB-C110432			11/05/08 15:50		
Lead	0.0528	mg/L	0.050	106	70	130	0.1	20	
Mercury	0.00553	mg/L	0.0010	111	70	130	2	20	
Selenium	0.0513	mg/L	0.0010	103	70	130	2.3	20	
Silver	0.0159	mg/L	0.010	80	70	130	2.6	20	
Thallium	0.0530	mg/L	0.10	106	70	130	0	20	
Thorium 232	0.0576	mg/L	0.0010	115	70	130	0.2	20	
Sample ID: C08101060-002AMS4	Post Digestion Spike			Run: SUB-C110432			11/05/08 20:42		
Antimony	0.0573	mg/L	0.050	113	70	130			
Arsenic	0.0623	mg/L	0.0010	101	70	130			
Beryllium	0.0439	mg/L	0.010	88	70	130			
Cadmium	0.0459	mg/L	0.010	92	70	130			
Copper	0.0583	mg/L	0.010	93	70	130			
Lead	0.0507	mg/L	0.050	101	70	130			
Mercury	0.00518	mg/L	0.0010	104	70	130			
Selenium	0.0542	mg/L	0.0010	92	70	130			
Silver	0.0149	mg/L	0.010	75	70	130			
Thallium	0.0507	mg/L	0.10	101	70	130			
Thorium 232	0.0507	mg/L	0.0010	101	70	130			
Sample ID: C08101060-002AMS4	Post Digestion Spike Duplicate			Run: SUB-C110432			11/05/08 20:49		
Antimony	0.0567	mg/L	0.050	112	70	130	1	20	
Arsenic	0.0638	mg/L	0.0010	104	70	130	2.3	20	
Beryllium	0.0447	mg/L	0.010	89	70	130	1.9	20	
Cadmium	0.0455	mg/L	0.010	91	70	130	0.8	20	
Copper	0.0587	mg/L	0.010	94	70	130	0.7	20	
Lead	0.0513	mg/L	0.050	102	70	130	1.2	20	
Mercury	0.00526	mg/L	0.0010	105	70	130	1.5	20	
Selenium	0.0553	mg/L	0.0010	95	70	130	2.1	20	
Silver	0.0148	mg/L	0.010	74	70	130	0.8	20	
Thallium	0.0512	mg/L	0.10	102	70	130	0	20	
Thorium 232	0.0513	mg/L	0.0010	103	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R110508		
Sample ID: LRB	Method Blank					Run: SUB-C110508			11/06/08 13:31
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank					Run: SUB-C110508			11/06/08 13:35
Uranium	0.0540	mg/L	0.00030	108	85	115			
Sample ID: R08100295-014C	Post Digestion Spike					Run: SUB-C110508			11/06/08 17:41
Uranium	0.0550	mg/L	0.00030	110	70	130			
Sample ID: R08100295-014C	Post Digestion Spike Duplicate					Run: SUB-C110508			11/06/08 18:02
Uranium	0.0550	mg/L	0.00030	110	70	130	0	20	
Sample ID: R08100295-014D	Post Digestion Spike					Run: SUB-C110508			11/06/08 18:10
Uranium	0.0571	mg/L	0.00030	114	70	130			
Sample ID: R08100295-014D	Post Digestion Spike Duplicate					Run: SUB-C110508			11/06/08 18:14
Uranium	0.0570	mg/L	0.00030	114	70	130	0.1	20	
Method: E245.1							Batch: B_35439		
Sample ID: MB-35439	Method Blank					Run: SUB-B119895			10/27/08 08:48
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-35439	Laboratory Fortified Blank					Run: SUB-B119895			10/27/08 08:50
Mercury	0.0020	mg/L	0.0010	99	85	115			
Sample ID: B08102025-010BMS	Sample Matrix Spike					Run: SUB-B119895			10/27/08 09:18
Mercury	0.0019	mg/L	0.0010	93	70	130			
Sample ID: B08102025-010BMSD	Sample Matrix Spike Duplicate					Run: SUB-B119895			10/27/08 09:20
Mercury	0.0020	mg/L	0.0010	98	70	130	5.3	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_35465		
Sample ID: MB-35465	Method Blank					Run: SUB-B119895			10/27/08 12:13
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-35465	Laboratory Fortified Blank					Run: SUB-B119895			10/27/08 12:15
Mercury	0.0018	mg/L	0.0010	91	85	115			
Sample ID: B08101997-001BMS	Sample Matrix Spike					Run: SUB-B119895			10/27/08 12:22
Mercury	0.0019	mg/L	0.00020	94	70	130			
Sample ID: B08101997-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-B119895			10/27/08 12:24
Mercury	0.0019	mg/L	0.00020	93	70	130	0.5	30	
Sample ID: B08102034-011JMS	Sample Matrix Spike					Run: SUB-B119895			10/27/08 12:43
Mercury	0.0019	mg/L	0.0010	93	70	130			
Sample ID: B08102034-011JMSD	Sample Matrix Spike Duplicate					Run: SUB-B119895			10/27/08 12:46
Mercury	0.0019	mg/L	0.0010	94	70	130	1.1	30	
Method: E245.1							Analytical Run: SUB-B119895		
Sample ID: QCS	Initial Calibration Verification Standard								10/27/08 06:52
Mercury	0.0022	mg/L	0.0010	109	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R38130		
Sample ID: LFB0810225958-3	Laboratory Fortified Blank			Run: DIONEX_081022A			10/22/08 18:52		
Chloride	4.76	mg/L	0.50	95	90	110			
Fluoride	1.94	mg/L	0.10	97	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.50	mg/L	0.10	100	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: LFB0810225958-4	Laboratory Fortified Blank			Run: DIONEX_081022A			10/22/08 19:08		
Chloride	4.87	mg/L	0.50	97	90	110			
Fluoride	1.97	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N	2.43	mg/L	0.10	97	90	110			
Nitrogen, Nitrite as N	2.55	mg/L	0.10	102	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08100263-001BMS	Sample Matrix Spike			Run: DIONEX_081022A			10/22/08 20:14		
Chloride	5.76	mg/L	0.50	93	80	120			
Fluoride	3.12	mg/L	0.10	88	80	120			
Nitrogen, Nitrate as N	2.43	mg/L	0.10	97	80	120			
Nitrogen, Nitrite as N	2.54	mg/L	0.10	102	80	120			
Sulfate	81.9	mg/L	1.0		80	120			A
Sample ID: R08100263-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081022A			10/22/08 20:31		
Chloride	5.81	mg/L	0.50	94	80	120	0.9	10	
Fluoride	3.17	mg/L	0.10	90	80	120	1.6	10	
Nitrogen, Nitrate as N	2.45	mg/L	0.10	98	80	120	0.8	10	
Nitrogen, Nitrite as N	2.56	mg/L	0.10	102	80	120	0.8	10	
Sulfate	82.1	mg/L	1.0		80	120	0.3	10	A
Sample ID: R08100295-004AMS	Sample Matrix Spike			Run: DIONEX_081022A			10/22/08 22:58		
Chloride	255	mg/L	5.4	93	80	120			
Fluoride	99.5	mg/L	0.56	95	80	120			
Nitrogen, Nitrate as N	122	mg/L	1.3	98	80	120			
Nitrogen, Nitrite as N	128	mg/L	2.9	102	80	120			
Sulfate	1960	mg/L	3.4	78	80	120			S
Sample ID: R08100295-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081022A			10/22/08 23:15		
Chloride	246	mg/L	5.4	89	80	120	3.5	10	
Fluoride	96.8	mg/L	0.56	92	80	120	2.7	10	
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120	3.7	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	99	80	120	3.6	10	
Sulfate	1940	mg/L	3.4	75	80	120	0.9	10	S
Sample ID: R08100295-008AMS	Sample Matrix Spike			Run: DIONEX_081022A			10/23/08 02:15		
Chloride	251	mg/L	5.4	93	80	120			
Fluoride	100	mg/L	0.56	96	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/29/08
Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R38130		
Sample ID: R08100295-008AMS	Sample Matrix Spike			Run: DIONEX_081022A			10/23/08 02:15		
Nitrogen, Nitrate as N	122	mg/L	1.3	97	80	120			
Nitrogen, Nitrite as N	127	mg/L	2.9	102	80	120			
Sulfate	1020	mg/L	3.4	84	80	120			
Sample ID: R08100295-008AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081022A			10/23/08 02:32		
Chloride	242	mg/L	5.4	89	80	120	3.5	10	
Fluoride	97.4	mg/L	0.56	93	80	120	3	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120	3.4	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120	3.4	10	
Sulfate	996	mg/L	3.4	80	80	120	2.4	10	
Sample ID: R08100295-012AMS	Sample Matrix Spike			Run: DIONEX_081022A			10/23/08 05:32		
Chloride	256	mg/L	5.4	93	80	120			
Fluoride	99.9	mg/L	0.56	95	80	120			
Nitrogen, Nitrate as N	121	mg/L	1.3	97	80	120			
Nitrogen, Nitrite as N	127	mg/L	2.9	102	80	120			
Sulfate	1150	mg/L	3.4	89	80	120			
Sample ID: R08100295-012AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081022A			10/23/08 05:49		
Chloride	248	mg/L	5.4	90	80	120	3.1	10	
Fluoride	97.2	mg/L	0.56	93	80	120	2.8	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120	2.8	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	99	80	120	3	10	
Sulfate	1110	mg/L	3.4	84	80	120	3.3	10	
Sample ID: R08100303-002AMS	Sample Matrix Spike			Run: DIONEX_081022A			10/23/08 08:49		
Chloride	5.94	mg/L	0.50	93	80	120			
Fluoride	2.89	mg/L	0.10	90	80	120			
Nitrogen, Nitrate as N	3.44	mg/L	0.10	91	80	120			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	80	120			
Sulfate	17.8	mg/L	1.0	83	80	120			
Sample ID: R08100303-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081022A			10/23/08 09:06		
Chloride	6.23	mg/L	0.50	98	80	120	4.8	10	
Fluoride	2.84	mg/L	0.10	87	80	120	1.7	10	
Nitrogen, Nitrate as N	3.46	mg/L	0.10	92	80	120	0.6	10	
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	80	120	0	10	
Sulfate	18.1	mg/L	1.0	85	80	120	1.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0561		
Sample ID: MB-GrAB-0561	Method Blank								
Gross Alpha	0.2	pCi/L							U
Gross Beta	-3	pCi/L							U
Sample ID: UNAT-GrAB-0561	Laboratory Control Sample								
Gross Alpha	140	pCi/L	102	70	130				
Sample ID: C08101085-003CMS	Sample Matrix Spike								
Gross Alpha	110	pCi/L	75	70	130				
Sample ID: C08101085-003CMSD	Sample Matrix Spike Duplicate								
Gross Alpha	99	pCi/L	67	70	130	9.8	19.6		S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: Cs137-GrAB-0561	Laboratory Control Sample								
Gross Beta	94	pCi/L	104	70	130				
Sample ID: R08100295-002H	Sample Duplicate								
Gross Alpha	4100	pCi/L					9.2	13.1	
Gross Beta	1200	pCi/L					5.4	12.8	
Sample ID: C08101085-003CMS	Sample Matrix Spike								
Gross Beta	77	pCi/L	80	70	130				
Sample ID: C08101085-003CMSD	Sample Matrix Spike Duplicate								
Gross Beta	76	pCi/L	79	70	130	0.9	17.2		
Method: E901.1							Batch: C_R109907		
Sample ID: R08100295-012H	Sample Duplicate								
Bismuth 214	81	pCi/L	20				50	30	R
Lead 214	64	pCi/L	20				19	30	
Potassium 40	870	pCi/L	20				5.6	30	
Gross Gamma	1000	pCi/L	20				11	30	
- Bismuth Duplicate is outside of the acceptance range for this analysis.									
Sample ID: MB-R109907	Method Blank								
Bismuth 214	ND	pCi/L							U
Gross Gamma	ND	pCi/L							U
Sample ID: LCS-R109907	Laboratory Control Sample								
Cesium 137	39000	pCi/L	20	104	70	130			
Cobalt 60	34000	pCi/L	20	99	70	130			
Potassium 40	6400	pCi/L	20	96	70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_20394		
Sample ID: R08100295-0071 Radium 226	Sample Duplicate -0.66 pCi/L				70	130	24	135.8	U
Sample ID: R08100295-0091 Radium 226	Sample Matrix Spike 24 pCi/L			120	70	130			11/11/08 13:02
Sample ID: LCS-20394 Radium 226	Laboratory Control Sample 17.5 pCi/Filter			124	70	130			11/11/08 14:35
Sample ID: MB-20394 Radium 226	Method Blank -2 pCi/Filter								11/11/08 14:35 U
Method: E903.0							Batch: C_RA226-3216		
Sample ID: C08101041-001EMS Radium 226	Sample Matrix Spike 15 pCi/L			80	70	130			11/11/08 02:30
Sample ID: C08101041-001EMSD Radium 226	Sample Matrix Spike Duplicate 15 pCi/L			84	70	130	3.3	24.9	11/11/08 02:30
Sample ID: MB-RA226-3216 Radium 226	Method Blank -0.02 pCi/L								11/11/08 04:06 U
Sample ID: LCS-RA226-3216 Radium 226	Laboratory Control Sample 6.4 pCi/L			81	70	130			11/11/08 04:06
Method: E907.0							Batch: C_20394		
Sample ID: C08101024-001AMS Thorium 230	Sample Matrix Spike 49.8 pCi/Filter		0.20	102	70	130			11/07/08 14:30
Sample ID: C08101024-001AMSD Thorium 230	Sample Matrix Spike Duplicate 39.5 pCi/Filter		0.20	80	70	130	23	30	11/07/08 14:30
Sample ID: LCS-20394 Thorium 230	Laboratory Control Sample 27.2 pCi/L		0.20	112	70	130			11/07/08 14:30
Sample ID: MB-20394 Thorium 230	Method Blank 0.2 pCi/L								11/07/08 14:30 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 12/29/08
 Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0683		
Sample ID: LCS-RA-TH-ISO-0683	Laboratory Control Sample					Run: SUB-C111494			11/20/08 08:50
Thorium 230	4.25	pCi/L	0.20	70	70	130			
Sample ID: R08100295-014H	Sample Matrix Spike					Run: SUB-C111494			11/20/08 13:36
Thorium 230	17.8	pCi/L	0.20	74	70	130			
Sample ID: R08100295-014H	Sample Matrix Spike Duplicate					Run: SUB-C111494			11/20/08 13:36
Thorium 230	21.5	pCi/L	0.20	89	70	130	19	40	
Sample ID: MB-RA-TH-ISO-0683	Method Blank					Run: SUB-C111494			11/20/08 13:36
Thorium 230	0.1	pCi/L							U
Method: E909.0M							Batch: C_20394		
Sample ID: C08101067-001FMS	Sample Matrix Spike					Run: SUB-C111413			11/11/08 10:15
Lead 210	1100	pCi/L		93	70	130			
Sample ID: C08101067-001FMSD	Sample Matrix Spike Duplicate					Run: SUB-C111413			11/11/08 10:15
Lead 210	1000	pCi/L		89	70	130	4.8	30	
Sample ID: MB-R111413	Method Blank					Run: SUB-C111413			11/11/08 10:15
Lead 210	-3	pCi/L							U
Sample ID: LCS-R111413	Laboratory Control Sample					Run: SUB-C111413			11/11/08 10:15
Lead 210	110	pCi/L		97	70	130			
Method: E909.0M							Batch: C_R111073		
Sample ID: R08100295-006H	Sample Matrix Spike					Run: SUB-C111073			11/06/08 09:13
Lead 210	150	pCi/L		128	70	130			
Sample ID: C08101336-001FDUP	Sample Duplicate					Run: SUB-C111073			11/06/08 09:13
Lead 210	-0.40	pCi/L					130	30	UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R111073	Method Blank					Run: SUB-C111073			11/06/08 09:13
Lead 210	-2	pCi/L							U
Sample ID: LCS-R111073	Laboratory Control Sample					Run: SUB-C111073			11/06/08 09:13
Lead 210	65	pCi/L		115	70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 12/29/08

Project: Edgemont

Work Order: R08100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_20394		
Sample ID: C08101067-001FMS	Sample Matrix Spike				Run: SUB-C111251			11/13/08 15:31	
Polonium 210	37	pCi/L	1.0	84	70	130			
Sample ID: C08101067-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C111251			11/13/08 15:31	
Polonium 210	39	pCi/L	1.0	90	70	130	5.3	53	
Sample ID: LCS-20394	Laboratory Control Sample				Run: SUB-C111251			11/13/08 15:31	
Polonium 210	80	pCi/L	1.0	94	70	130			
Sample ID: MB-20394	Method Blank				Run: SUB-C111251			11/13/08 15:31	
Polonium 210	0.1	pCi/L						U	
Method: RMO-3008							Batch: C_PO210-0158		
Sample ID: R08100295-014K	Sample Matrix Spike				Run: SUB-C111313			11/19/08 09:23	
Polonium 210	44	pCi/L	1.0	101	70	130			
Sample ID: R08100295-014K	Sample Matrix Spike Duplicate				Run: SUB-C111313			11/19/08 12:25	
Polonium 210	37	pCi/L	1.0	86	70	130	16	57	
Sample ID: LCS-PO210-0158	Laboratory Control Sample				Run: SUB-C111313			11/19/08 12:25	
Polonium 210	19	pCi/L	1.0	109	70	130			
Sample ID: MB-PO210-0158	Method Blank				Run: SUB-C111313			11/13/08 17:55	
Polonium 210	-0.07	pCi/L						U	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: <i>Scott Env</i>		Project Name, PWS, Permit, Etc.: <i>Power Tech DB</i>		Sample Origin: State: <u> </u>		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>									
Report Mail Address: <i>Res Dic</i>		Contact Name: <i>Allen Scott</i>		Phone/Fax: <i>605-473-4259</i>		Email: <u> </u>									
Invoice Address: <i>Res Dic</i>		Invoice Contact & Phone: <u> </u>		Purchase Order: <u> </u>		Quote/Bottle Order: <i>Allen Scott</i>									
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTTP <input type="checkbox"/> Format: <u> </u> <input type="checkbox"/> State: <u> </u> <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: <u> </u> <input type="checkbox"/> NELAC				ANALYSIS REQUESTED Number of Containers: <u> </u> Sample Type: <input type="checkbox"/> AWS <input type="checkbox"/> V <input type="checkbox"/> B <input type="checkbox"/> O <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Soils/Solids <input type="checkbox"/> Vegetation <input type="checkbox"/> Bioassay <input type="checkbox"/> Other				SEE ATTACHED Normal Turnaround (TAT)							
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)				ANALYSIS REQUESTED				RUSH Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page							
086W 6401 086W 680 086W 680 086W 688 086W 688 086W 688 086W 689 086W 689 086W 689 086W 689				10-20-08 12:00 10-20-08 12:10 10-20-08 12:10 10-20-08 12:15 10-20-08 12:15 10-20-08 3:42 10-20-08 1:15 10-20-08 2:46 10-20-08 3:00 10-20-08 4:20				Matrix: <i>water</i> Matrix: <u> </u> Matrix: <u> </u> Matrix: <u> </u> Matrix: <u> </u> Matrix: <u> </u> Matrix: <u> </u> Matrix: <u> </u> Matrix: <u> </u> Matrix: <u> </u>				Signature: <u> </u> Signature: <u> </u> Signature: <u> </u> Signature: <u> </u> Signature: <u> </u> Signature: <u> </u> Signature: <u> </u> Signature: <u> </u> Signature: <u> </u>			
Custody Record MUST be Signed				LABORATORY USE ONLY				Signature: <i>Handwritten Signature</i>							

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This service is subject to the terms and conditions of the subcontract. All sub-contract data will be clearly noted on your analytical report. Visit our web site at www.energylabs.com for additional information, downloadable (see schedule, forms, and links.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Scott Env.		Project Name, PWS, Permit, Etc. Power Tech DB		Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: ReSpec		Contact Name: Allen Scott		Email:	Sampler: (Please Print) Allen Scott
Invoice Address: ReSpec		Invoice Contact & Phone: 605-673-4839		Purchase Order:	Quota/Bottle Order:
Special Report/Formats - EI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTTP <input type="checkbox"/> Format: <input type="checkbox"/> State: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: <input type="checkbox"/> NELAC			Number of Containers Sample Type: AWSVBO Air Water Soils/Solids Vegetation Bioassay Other		
ANALYSIS REQUESTED			SEE ATTACHED		
Normal Turnaround (TAT)			R U S H		
Comments: Contact EI prior to RUSH sample submittal for charges and scheduling - See instruction Page			Signature: Hand		
On Ice: Yes No			Reorder Temp: 4.2°C		
Custody Seal Y N Intact Y N Signature Y N Match Y N			Signature: Hand		
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	
1 DBGW 697		10-24-08	9:45	Water	
2 DBGW 695		10-24-08	9:10	"	
3 DBGW 694		10-24-08	8:25	"	
4 DBGW 696		10-24-08	8:45	"	
5					
6					
7					
8					
9					
10					
Custody Record MUST be Signed		Relinquished by (print): Allen Scott	Date/Time: 10-23-08 10:24	Signature: [Signature]	Received by (print): LINDA LARSON
Sample Disposal: Return to Client		Lab Disposal:	Date/Time:	Signature:	Date/Time: 10/23/08 10:25

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

January 29, 2009

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08110211 Quote ID: R286
Project Name: Edgemont

Energy Laboratories Inc. received the following 14 samples for RESPEC Inc on 11/19/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08110211-001	DewBurd BLK01	11/18/08 8:45	11/19/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved



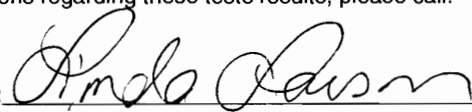
ANALYTICAL SUMMARY REPORT

R08110211-002	DewBurd GW696	11/18/08 8:45	11/19/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08110211-003	DewBurd GW694	11/18/08 9:00	11/19/08	Aqueous	Same As Above
R08110211-004	DewBurd GW688	11/18/08 10:00	11/19/08	Aqueous	Same As Above
R08110211-005	DewBurd GW680	11/18/08 10:25	11/19/08	Aqueous	Same As Above
R08110211-006	DewBurd GW694	11/18/08 9:05	11/19/08	Aqueous	Same As Above
R08110211-007	DewBurd GW3026	11/18/08 11:19	11/19/08	Aqueous	Same As Above
R08110211-008	DewBurd GW698	11/18/08 12:00	11/19/08	Aqueous	Same As Above
R08110211-009	DewBurd GW695	11/18/08 13:25	11/19/08	Aqueous	Same As Above
R08110211-010	DewBurd GW697	11/18/08 13:35	11/19/08	Aqueous	Same As Above
R08110211-011	DewBurd GW689	11/18/08 14:02	11/19/08	Aqueous	Same As Above
R08110211-012	DewBurd GW681	11/18/08 13:55	11/19/08	Aqueous	Same As Above
R08110211-013	DewBurd GW615	11/18/08 15:00	11/19/08	Aqueous	Same As Above
R08110211-014	DewBurd GW622	11/18/08 14:30	11/19/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____



Linda Larson
Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-001
Client Sample ID: DewBurd BLK01

Report Date: 01/29/09
Collection Date: 11/18/08 08:45
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	11/25/08 11:21/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:21/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	11/25/08 11:21/mb
Calcium	ND	mg/L		0.5		2	E200.7	12/10/08 16:24/eli-c
Chloride	ND	mg/L		1		1	E300.0	11/20/08 18:36/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	11/20/08 18:36/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	12/10/08 16:24/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:10/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 18:36/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 18:36/jmh
Potassium	ND	mg/L		0.5		2	E200.7	12/10/08 16:24/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	12/10/08 16:24/eli-c
Sulfate	ND	mg/L		1		1	E300.0	11/20/08 18:36/jmh
Silica	ND	mg/L		0.2		2	E200.7	12/10/08 16:24/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	11/25/08 15:29/tb
Oxidation-Reduction Potential	330	mV				1	A2580 B	11/25/08 16:00/jmh
pH	4.84	s.u.		0.01		1	A4500-H B	11/25/08 14:43/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	64	mg/L		5		1	A2540 C	11/21/08 11:26/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 19:33/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 19:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 19:33/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 16:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 19:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 19:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 19:33/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 16:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 19:33/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	12/03/08 19:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 19:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 19:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 19:33/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 09:37/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 02:51/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-001
Client Sample ID: DewBurd BLK01

Report Date: 01/29/09
Collection Date: 11/18/08 08:45
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 19:33/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/03/08 19:33/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 19:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 19:33/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 01:02/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:27/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-0.6	pCi/L	U			1	E900.0	12/24/08 01:10/eli-ce
Gross Alpha precision (±)	0.5	pCi/L				1	E900.0	12/24/08 01:10/eli-ce
Gross Alpha MDC	1.0	pCi/L				1	E900.0	12/24/08 01:10/eli-ce
Gross Beta	-2	pCi/L	U			1	E900.0	12/24/08 01:10/eli-ce
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	12/24/08 01:10/eli-ce
Gross Beta MDC	2.6	pCi/L				1	E900.0	12/24/08 01:10/eli-ce
Lead 210	-0.2	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.39	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	12/16/08 23:17/eli-ce
Radium 226 precision (±)	0.07	pCi/L				1	E903.0	12/16/08 23:17/eli-ce
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-ce
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-4	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.035	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	12/18/08 15:28/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-001
 Client Sample ID: DewBurd BLK01

Report Date: 01/29/09
 Collection Date: 11/18/08 08:45
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	12/18/08 15:28/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	12/18/08 15:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	222	pCi/L		100			1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	82.8	pCi/L					1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/05/08 06:34/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	12/05/08 06:34/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/05/08 06:34/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	12/05/08 06:34/eli-c
Boron	ND	mg/L		0.1			2	E200.7	12/10/08 22:12/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/05/08 06:34/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/05/08 06:34/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/05/08 06:34/eli-c
Iron	0.03	mg/L		0.03			2	E200.7	12/10/08 22:12/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/05/08 06:34/eli-c
Manganese	ND	mg/L		0.01			1	E200.8	12/05/08 06:34/eli-c
Mercury	ND	mg/L		0.001			1	0	11/24/08 12:14/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	12/05/08 06:34/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/05/08 06:34/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/05/08 06:34/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/08/08 13:22/eli-c
Strontium	ND	mg/L		0.1			1	E200.8	12/05/08 06:34/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/05/08 06:34/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	12/05/08 06:34/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	12/05/08 06:34/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-002
 Client Sample ID: DewBurd GW696

Report Date: 01/29/09
 Collection Date: 11/18/08 08:45
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	11/25/08 11:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:22/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	11/25/08 11:22/mb
Calcium	30.9	mg/L		0.5		2	E200.7	12/10/08 16:36/eli-c
Chloride	13	mg/L		1		1	E300.0	11/20/08 19:25/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/20/08 19:25/jmh
Magnesium	10.6	mg/L		0.5		2	E200.7	12/10/08 16:36/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:13/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 19:25/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 19:25/jmh
Potassium	9.1	mg/L		0.5		2	E200.7	12/10/08 16:36/eli-c
Sodium	293	mg/L	D	2		2	E200.7	12/10/08 16:36/eli-c
Sulfate	476	mg/L	D	3		50	E300.0	11/21/08 03:37/jmh
Silica	9.9	mg/L		0.2		2	E200.7	12/10/08 16:36/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1340	umhos/cm		5.0		1	A2510 B	11/25/08 15:31/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.03	s.u.		0.01		1	A4500-H B	11/25/08 14:44/tb
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	790	mg/L		5		1	A2540 C	11/21/08 11:27/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 19:40/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 19:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 19:40/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 16:36/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 19:40/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 19:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 19:40/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 16:36/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 19:40/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/03/08 19:40/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 19:40/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 19:40/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 19:40/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 09:44/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 02:58/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 19:40/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-002
Client Sample ID: DewBurd GW696

Report Date: 01/29/09
Collection Date: 11/18/08 08:45
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/03/08 19:40/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 19:40/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 19:40/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 01:09/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.9	pCi/L				1	E900.0	12/24/08 01:10/eli-c
Gross Alpha precision (±)	3.2	pCi/L				1	E900.0	12/24/08 01:10/eli-c
Gross Alpha MDC	4.4	pCi/L				1	E900.0	12/24/08 01:10/eli-c
Gross Beta	9.0	pCi/L				1	E900.0	12/24/08 01:10/eli-c
Gross Beta precision (±)	2.6	pCi/L				1	E900.0	12/24/08 01:10/eli-c
Gross Beta MDC	4.1	pCi/L				1	E900.0	12/24/08 01:10/eli-c
Lead 210	0.0	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	0.8	pCi/L				1	E903.0	12/16/08 23:17/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-6	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.11	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/18/08 15:28/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-002
Client Sample ID: DewBurd GW696

Report Date: 01/29/09
Collection Date: 11/18/08 08:45
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 MDC	0.4	pCi/L				1 E903.0	12/18/08 15:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1 E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	222	pCi/L		100		1 D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	82.9	pCi/L				1 D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	12/05/08 06:41/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	12/05/08 06:41/eli-c
Barium	ND	mg/L		0.1		1 E200.8	12/05/08 06:41/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	12/05/08 06:41/eli-c
Boron	ND	mg/L		0.1		2 E200.7	12/10/08 22:25/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	12/05/08 06:41/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	12/05/08 06:41/eli-c
Copper	ND	mg/L		0.01		1 E200.8	12/05/08 06:41/eli-c
Iron	0.14	mg/L		0.03		2 E200.7	12/10/08 22:25/eli-c
Lead	ND	mg/L		0.001		1 E200.8	12/05/08 06:41/eli-c
Manganese	0.06	mg/L		0.01		1 E200.8	12/05/08 06:41/eli-c
Mercury	ND	mg/L		0.001		1 0	11/24/08 12:16/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	12/05/08 06:41/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	12/05/08 06:41/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	12/05/08 06:41/eli-c
Silver	ND	mg/L		0.005		1 E200.8	12/08/08 13:29/eli-c
Strontium	0.7	mg/L		0.1		1 E200.8	12/05/08 06:41/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	12/05/08 06:41/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	12/05/08 06:41/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/05/08 06:41/eli-c
DATA QUALITY							
A/C Balance (± 5)	5.40	%				1 A1030 E	01/29/09 00:00/jmh
Anions	13.8	meq/L				1 A1030 E	01/29/09 00:00/jmh
Cations	15.4	meq/L				1 A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	967	mg/L				1 A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.820					1 A1030 E	01/29/09 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-003
Client Sample ID: DewBurd GW694

Report Date: 01/29/09
Collection Date: 11/18/08 09:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B	11/25/08 11:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:24/mb
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B	11/25/08 11:24/mb
Calcium	101	mg/L		0.5		2	E200.7	12/10/08 16:44/eli-c
Chloride	9	mg/L		1		1	E300.0	11/20/08 19:41/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	11/20/08 19:41/jmh
Magnesium	36.2	mg/L		0.5		2	E200.7	12/10/08 16:44/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 19:41/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 19:41/jmh
Potassium	13.3	mg/L		0.5		2	E200.7	12/10/08 16:44/eli-c
Sodium	184	mg/L	D	2		2	E200.7	12/10/08 16:44/eli-c
Sulfate	484	mg/L	D	3		50	E300.0	11/21/08 04:27/jmh
Silica	9.3	mg/L		0.2		2	E200.7	12/10/08 16:44/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1310	umhos/cm		5.0		1	A2510 B	11/25/08 15:32/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	7.93	s.u.		0.01		1	A4500-H B	11/25/08 14:45/tb
Sodium Adsorption Ratio (SAR)	4.0	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	980	mg/L		5		1	A2540 C	11/21/08 11:31/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 19:47/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/03/08 19:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 19:47/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 16:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 19:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 19:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 19:47/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 16:44/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 19:47/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	12/03/08 19:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 19:47/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 19:47/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 19:47/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 09:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 03:05/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 19:47/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-003
 Client Sample ID: DewBurd GW694

Report Date: 01/29/09
 Collection Date: 11/18/08 09:00
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0006	mg/L		0.0003		1 E200.8	12/03/08 19:47/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	12/03/08 19:47/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/03/08 19:47/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	12/11/08 01:15/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	12/04/08 15:37/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	9.2	pCi/L				1 E900.0	12/24/08 01:10/eli-c
Gross Alpha precision (±)	3.3	pCi/L				1 E900.0	12/24/08 01:10/eli-c
Gross Alpha MDC	4.4	pCi/L				1 E900.0	12/24/08 01:10/eli-c
Gross Beta	5.9	pCi/L				1 E900.0	12/24/08 01:10/eli-c
Gross Beta precision (±)	2.9	pCi/L				1 E900.0	12/24/08 01:10/eli-c
Gross Beta MDC	4.7	pCi/L				1 E900.0	12/24/08 01:10/eli-c
Lead 210	-0.1	pCi/L	U			1 E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1 E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1 E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1 RMO-3008	12/11/08 10:19/eli-c
Radium 226	1.7	pCi/L				1 E903.0	12/16/08 23:17/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	12/16/08 23:17/eli-c
Radium 226 MDC	0.2	pCi/L				1 E903.0	12/16/08 23:17/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-4	pCi/L	U			1 E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1 E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1 E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.040	pCi/L	U			1 RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1 RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.4	pCi/L	U			1 E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	12/18/08 15:28/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-003
 Client Sample ID: DewBurd GW694

Report Date: 01/29/09
 Collection Date: 11/18/08 09:00
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.4	pCi/L					1	E903.0	12/18/08 15:28/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	331	pCi/L		100			1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	82.4	pCi/L					1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/05/08 06:47/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	12/05/08 06:47/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/05/08 06:47/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	12/05/08 06:47/eli-c
Boron	ND	mg/L		0.1			2	E200.7	12/10/08 22:45/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/05/08 06:47/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/05/08 06:47/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/05/08 06:47/eli-c
Iron	0.19	mg/L		0.03			2	E200.7	12/10/08 22:45/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/05/08 06:47/eli-c
Manganese	0.15	mg/L		0.01			1	E200.8	12/05/08 06:47/eli-c
Mercury	ND	mg/L		0.001			1	0	11/24/08 12:19/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	12/05/08 06:47/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/05/08 06:47/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/05/08 06:47/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/08/08 13:35/eli-c
Strontium	2.6	mg/L		0.1			1	E200.8	12/05/08 06:47/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/05/08 06:47/eli-c
Uranium	0.0005	mg/L		0.0003			1	E200.8	12/05/08 06:47/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	12/05/08 06:47/eli-c
DATA QUALITY									
A/C Balance (± 5)	7.92	%					1	A1030 E	01/29/09 00:00/jmh
Anions	14.0	meq/L					1	A1030 E	01/29/09 00:00/jmh
Cations	16.4	meq/L					1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	962	mg/L					1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01						1	A1030 E	01/29/09 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-004
Client Sample ID: DewBurd GW688

Report Date: 01/29/09
Collection Date: 11/18/08 10:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	146	mg/L		5			1	A2320 B	11/25/08 11:26/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/25/08 11:26/mb
Bicarbonate as HCO3	178	mg/L		5			1	A2320 B	11/25/08 11:26/mb
Calcium	51.2	mg/L		0.5			2	E200.7	12/10/08 16:48/eli-c
Chloride	12	mg/L		1			1	E300.0	11/20/08 19:58/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	11/20/08 19:58/jmh
Magnesium	21.0	mg/L		0.5			2	E200.7	12/10/08 16:48/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1			1	A4500-NH3 G	11/25/08 17:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	11/20/08 19:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/20/08 19:58/jmh
Potassium	12.5	mg/L		0.5			2	E200.7	12/10/08 16:48/eli-c
Sodium	202	mg/L	D	2			2	E200.7	12/10/08 16:48/eli-c
Sulfate	421	mg/L	D	3			50	E300.0	11/21/08 05:16/jmh
Silica	8.7	mg/L		0.2			2	E200.7	12/10/08 16:48/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1140	umhos/cm		5.0			1	A2510 B	11/25/08 15:33/tb
Oxidation-Reduction Potential	270	mV					1	A2580 B	11/25/08 16:00/jmh
pH	8.19	s.u.		0.01			1	A4500-H B	11/25/08 14:47/tb
Sodium Adsorption Ratio (SAR)	6.0	unitless		0.10			1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	780	mg/L		5			1	A2540 C	11/21/08 11:32/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	12/03/08 20:07/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	12/03/08 20:07/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/03/08 20:07/eli-c
Boron	ND	mg/L		0.1			2	E200.7	12/10/08 16:48/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/03/08 20:07/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/03/08 20:07/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/03/08 20:07/eli-c
Iron	ND	mg/L		0.03			2	E200.7	12/10/08 16:48/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/03/08 20:07/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	12/03/08 20:07/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	12/03/08 20:07/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	12/03/08 20:07/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/03/08 20:07/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	12/05/08 09:49/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/05/08 03:11/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	12/03/08 20:07/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-004
 Client Sample ID: DewBurd GW688

Report Date: 01/29/09
 Collection Date: 11/18/08 10:00
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	12/03/08 20:07/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	12/03/08 20:07/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/03/08 20:07/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	12/11/08 01:22/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	12/04/08 15:39/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	15.0	pCi/L				1 E900.0	12/24/08 01:10/eli-ca
Gross Alpha precision (±)	3.3	pCi/L				1 E900.0	12/24/08 01:10/eli-ca
Gross Alpha MDC	3.8	pCi/L				1 E900.0	12/24/08 01:10/eli-ca
Gross Beta	17.4	pCi/L				1 E900.0	12/24/08 01:10/eli-ca
Gross Beta precision (±)	2.4	pCi/L				1 E900.0	12/24/08 01:10/eli-ca
Gross Beta MDC	3.6	pCi/L				1 E900.0	12/24/08 01:10/eli-ca
Lead 210	1.1	pCi/L	U			1 E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1 E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1 E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.22	pCi/L				1 RMO-3008	12/11/08 10:19/eli-c
Radium 226	2.7	pCi/L				1 E903.0	12/16/08 23:17/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	12/16/08 23:17/eli-ca
Radium 226 MDC	0.2	pCi/L				1 E903.0	12/16/08 23:17/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-5	pCi/L	U			1 E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1 E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1 E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.061	pCi/L	U			1 RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1 RMO-3008	12/30/08 08:57/eli-c
Radium 226	0.2	pCi/L	U			1 E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	12/18/08 15:28/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-004
Client Sample ID: DewBurd GW688

Report Date: 01/29/09
Collection Date: 11/18/08 10:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.4	pCi/L					1	E903.0	12/18/08 15:28/eli-c
Thorium 230	-0.2	pCi/L	U	0.2			1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	162	pCi/L		100			1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	81.3	pCi/L					1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/08/08 19:34/eli-c
Arsenic	0.006	mg/L	D	0.005			1	E200.8	12/13/08 00:02/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/08/08 19:34/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	12/08/08 19:34/eli-c
Boron	ND	mg/L		0.1			2	E200.7	12/12/08 19:38/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/08/08 19:34/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/08/08 19:34/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/08/08 19:34/eli-c
Iron	0.34	mg/L		0.03			2	E200.7	12/12/08 19:38/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/08/08 19:34/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	12/08/08 19:34/eli-c
Mercury	ND	mg/L		0.001			1	0	11/24/08 12:21/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	12/08/08 19:34/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/08/08 19:34/eli-c
Selenium	0.001	mg/L		0.001			1	E200.8	12/08/08 19:34/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/08/08 19:34/eli-c
Strontium	1.3	mg/L		0.1			1	E200.8	12/08/08 19:34/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/08/08 19:34/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	12/08/08 19:34/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	12/12/08 19:38/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.50	%					1	A1030 E	01/29/09 00:00/jmh
Anions	12.0	meq/L					1	A1030 E	01/29/09 00:00/jmh
Cations	13.4	meq/L					1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	831	mg/L					1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940						1	A1030 E	01/29/09 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-005
Client Sample ID: DewBurd GW680

Report Date: 01/29/09
Collection Date: 11/18/08 10:25
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	250	mg/L		5			1	A2320 B	11/25/08 11:28/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/25/08 11:28/mb
Bicarbonate as HCO3	305	mg/L		5			1	A2320 B	11/25/08 11:28/mb
Calcium	389	mg/L		0.5			2	E200.7	12/10/08 16:52/eli-c
Chloride	14	mg/L		1			1	E300.0	11/20/08 20:14/jmh
Fluoride	0.2	mg/L		0.1			1	E300.0	11/20/08 20:14/jmh
Magnesium	123	mg/L		0.5			2	E200.7	12/10/08 16:52/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	11/25/08 17:17/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	11/20/08 20:14/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/20/08 20:14/jmh
Potassium	19.2	mg/L		0.5			2	E200.7	12/10/08 16:52/eli-c
Sodium	145	mg/L	D	2			2	E200.7	12/10/08 16:52/eli-c
Sulfate	1330	mg/L	D	3			50	E300.0	11/21/08 05:32/jmh
Silica	8.4	mg/L		0.2			2	E200.7	12/10/08 16:52/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2470	umhos/cm		5.0			1	A2510 B	11/25/08 15:34/tb
Oxidation-Reduction Potential	290	mV					1	A2580 B	11/25/08 16:00/jmh
pH	7.86	s.u.		0.01			1	A4500-H B	11/25/08 14:51/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10			1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5			1	A2540 C	11/21/08 11:33/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	12/03/08 20:14/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	12/03/08 20:14/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/03/08 20:14/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	12/10/08 16:52/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/03/08 20:14/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/03/08 20:14/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/03/08 20:14/eli-c
Iron	0.12	mg/L		0.03			2	E200.7	12/10/08 16:52/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/03/08 20:14/eli-c
Manganese	0.43	mg/L		0.01			1	E200.8	12/03/08 20:14/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	12/03/08 20:14/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	12/03/08 20:14/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/03/08 20:14/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	12/05/08 09:51/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/05/08 03:18/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	12/03/08 20:14/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-005
Client Sample ID: DewBurd GW680

Report Date: 01/29/09
Collection Date: 11/18/08 10:25
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Uranium	0.0196	mg/L		0.0003			1	E200.8	12/03/08 20:14/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	12/03/08 20:14/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	12/03/08 20:14/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	12/11/08 01:29/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	12/04/08 15:41/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	4410	pCi/L					1	E900.0	12/24/08 01:10/eli-ca
Gross Alpha precision (±)	69.5	pCi/L					1	E900.0	12/24/08 01:10/eli-ca
Gross Alpha MDC	10.2	pCi/L					1	E900.0	12/24/08 01:10/eli-ca
Gross Beta	1840	pCi/L					1	E900.0	12/24/08 01:10/eli-ca
Gross Beta precision (±)	24.8	pCi/L					1	E900.0	12/24/08 01:10/eli-ca
Gross Beta MDC	13.8	pCi/L					1	E900.0	12/24/08 01:10/eli-ca
Lead 210	9.3	pCi/L					1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.7	pCi/L					1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L					1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	1.0	pCi/L	U	1.0			1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.63	pCi/L					1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	1430	pCi/L					1	E903.0	12/16/08 23:17/eli-ca
Radium 226 precision (±)	6.7	pCi/L					1	E903.0	12/16/08 23:17/eli-ca
Radium 226 MDC	0.2	pCi/L					1	E903.0	12/16/08 23:17/eli-ca
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	1200	pCi/L		20			1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	86	pCi/L					1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	-0.5	pCi/L	U				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L					1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L					1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	0.88	pCi/L					1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.66	pCi/L					1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	1.7	pCi/L					1	E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	12/18/08 15:28/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-005
Client Sample ID: DewBurd GW680

Report Date: 01/29/09
Collection Date: 11/18/08 10:25
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.4	pCi/L					1	E903.0	12/18/08 15:28/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	86200	pCi/L		100			1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	453	pCi/L					1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/05/08 07:20/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	12/05/08 07:20/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/05/08 07:20/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	12/05/08 07:20/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	12/10/08 22:49/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/05/08 07:20/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/05/08 07:20/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/05/08 07:20/eli-c
Iron	0.28	mg/L		0.03			2	E200.7	12/10/08 22:49/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/05/08 07:20/eli-c
Manganese	0.43	mg/L		0.01			1	E200.8	12/05/08 07:20/eli-c
Mercury	ND	mg/L		0.001			1	0	11/24/08 12:24/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	12/05/08 07:20/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/05/08 07:20/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/05/08 07:20/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/08/08 13:42/eli-c
Strontium	7.0	mg/L		0.1			1	E200.8	12/05/08 07:20/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/05/08 07:20/eli-c
Uranium	0.0174	mg/L		0.0003			1	E200.8	12/05/08 07:20/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	12/05/08 07:20/eli-c
DATA QUALITY									
A/C Balance (± 5)	4.57	%					1	A1030 E	01/29/09 00:00/jmh
Anions	33.2	meq/L					1	A1030 E	01/29/09 00:00/jmh
Cations	36.3	meq/L					1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	2200	mg/L					1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.05						1	A1030 E	01/29/09 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-006
 Client Sample ID: DewBurd GW694

Report Date: 01/29/09
 Collection Date: 11/18/08 09:05
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	206	mg/L		5		1	A2320 B	11/25/08 11:39/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:39/mb
Bicarbonate as HCO3	251	mg/L		5		1	A2320 B	11/25/08 11:39/mb
Calcium	99.7	mg/L		0.5		2	E200.7	12/10/08 16:56/eli-c
Chloride	9	mg/L		1		1	E300.0	11/20/08 20:30/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	11/20/08 20:30/jmh
Magnesium	35.6	mg/L		0.5		2	E200.7	12/10/08 16:56/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:18/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 20:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 20:30/jmh
Potassium	13.3	mg/L		0.5		2	E200.7	12/10/08 16:56/eli-c
Sodium	182	mg/L	D	2		2	E200.7	12/10/08 16:56/eli-c
Sulfate	505	mg/L	D	3		50	E300.0	11/21/08 05:49/jmh
Silica	9.1	mg/L		0.2		2	E200.7	12/10/08 16:56/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm		5.0		1	A2510 B	11/25/08 15:36/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.27	s.u.		0.01		1	A4500-H B	11/25/08 14:52/tb
Sodium Adsorption Ratio (SAR)	4.0	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	990	mg/L		5		1	A2540 C	11/21/08 11:33/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 20:21/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/03/08 20:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 20:21/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 16:56/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 20:21/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 20:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 20:21/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 16:56/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 20:21/eli-c
Manganese	0.14	mg/L		0.01		1	E200.8	12/03/08 20:21/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 20:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 20:21/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 20:21/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 09:53/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 03:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 20:21/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-006
Client Sample ID: DewBurd GW694

Report Date: 01/29/09
Collection Date: 11/18/08 09:05
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0006	mg/L		0.0003		1	E200.8	12/03/08 20:21/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 20:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 20:21/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 01:35/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	12.1	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Gross Alpha MDC	4.5	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Gross Beta	13.5	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Gross Beta precision (±)	3.1	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Gross Beta MDC	4.7	pCi/L				1	E900.0	12/24/08 01:10/eli-ca
Lead 210	-2	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	-0.1	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	1.5	pCi/L				1	E903.0	12/16/08 23:17/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-6	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	0.082	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	0.3	pCi/L	U			1	E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/18/08 15:28/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-006
 Client Sample ID: DewBurd GW694

Report Date: 01/29/09
 Collection Date: 11/18/08 09:05
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 MDC	0.4	pCi/L				1 E903.0	12/18/08 15:28/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1 E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1 E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	309	pCi/L		100		1 D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	84.0	pCi/L				1 D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	12/05/08 07:27/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	12/05/08 07:27/eli-c
Barium	ND	mg/L		0.1		1 E200.8	12/05/08 07:27/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	12/05/08 07:27/eli-c
Boron	ND	mg/L		0.1		2 E200.7	12/10/08 22:53/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	12/05/08 07:27/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	12/05/08 07:27/eli-c
Copper	ND	mg/L		0.01		1 E200.8	12/05/08 07:27/eli-c
Iron	0.19	mg/L		0.03		2 E200.7	12/10/08 22:53/eli-c
Lead	ND	mg/L		0.001		1 E200.8	12/05/08 07:27/eli-c
Manganese	0.15	mg/L		0.01		1 E200.8	12/05/08 07:27/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	11/24/08 08:46/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	12/05/08 07:27/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	12/05/08 07:27/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	12/05/08 07:27/eli-c
Silver	ND	mg/L		0.005		1 E200.8	12/08/08 14:15/eli-c
Strontium	2.6	mg/L		0.1		1 E200.8	12/05/08 07:27/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	12/05/08 07:27/eli-c
Uranium	0.0005	mg/L		0.0003		1 E200.8	12/05/08 07:27/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/05/08 07:27/eli-c
DATA QUALITY							
A/C Balance (± 5)	4.19	%				1 A1030 E	01/29/09 00:00/jmh
Anions	14.9	meq/L				1 A1030 E	01/29/09 00:00/jmh
Cations	16.2	meq/L				1 A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	994	mg/L				1 A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.00					1 A1030 E	01/29/09 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-007
 Client Sample ID: DewBurd GW3026

Report Date: 01/29/09
 Collection Date: 11/18/08 11:19
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	184	mg/L		5		1	A2320 B 11/25/08 11:41/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 11/25/08 11:41/mb
Bicarbonate as HCO3	224	mg/L		5		1	A2320 B 11/25/08 11:41/mb
Calcium	375	mg/L		0.5		2	E200.7 12/10/08 17:00/eli-c
Chloride	17	mg/L		1		1	E300.0 11/20/08 20:47/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 11/20/08 20:47/jmh
Magnesium	117	mg/L		0.5		2	E200.7 12/10/08 17:00/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G 11/25/08 17:19/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 11/20/08 20:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 11/20/08 20:47/jmh
Potassium	19.3	mg/L		0.5		2	E200.7 12/10/08 17:00/eli-c
Sodium	170	mg/L	D	2		2	E200.7 12/10/08 17:00/eli-c
Sulfate	1370	mg/L	D	3		50	E300.0 11/21/08 06:05/jmh
Silica	9.1	mg/L		0.2		2	E200.7 12/10/08 17:00/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2310	umhos/cm		5.0		1	A2510 B 11/25/08 15:37/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B 11/25/08 16:00/jmh
pH	7.44	s.u.		0.01		1	A4500-H B 11/25/08 14:53/tb
Sodium Adsorption Ratio (SAR)	2.0	unitless		0.10		1	Calculation 01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C 11/21/08 11:34/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 12/03/08 20:27/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 12/03/08 20:27/eli-c
Barium	ND	mg/L		0.1		1	E200.8 12/03/08 20:27/eli-c
Boron	0.2	mg/L		0.1		2	E200.7 12/10/08 17:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 12/03/08 20:27/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 12/03/08 20:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8 12/03/08 20:27/eli-c
Iron	3.59	mg/L		0.03		2	E200.7 12/10/08 17:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8 12/03/08 20:27/eli-c
Manganese	1.04	mg/L		0.01		1	E200.8 12/03/08 20:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 12/03/08 20:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 12/03/08 20:27/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 12/03/08 20:27/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 12/05/08 10:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8 12/05/08 03:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 12/03/08 20:27/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-007
Client Sample ID: DewBurd GW3026

Report Date: 01/29/09
Collection Date: 11/18/08 11:19
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0048	mg/L		0.0003		1 E200.8	12/03/08 20:27/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	12/03/08 20:27/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/03/08 20:27/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	12/11/08 01:42/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	12/04/08 15:51/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	19.7	pCi/L				1 E900.0	12/24/08 13:29/eli-c
Gross Alpha precision (±)	6.9	pCi/L				1 E900.0	12/24/08 13:29/eli-c
Gross Alpha MDC	9.1	pCi/L				1 E900.0	12/24/08 13:29/eli-c
Gross Beta	3.4	pCi/L	U			1 E900.0	12/24/08 13:29/eli-c
Gross Beta precision (±)	5.7	pCi/L				1 E900.0	12/24/08 13:29/eli-c
Gross Beta MDC	9.5	pCi/L				1 E900.0	12/24/08 13:29/eli-c
Lead 210	-2	pCi/L	U			1 E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1 E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1 E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.16	pCi/L				1 RMO-3008	12/11/08 10:19/eli-c
Radium 226	3.9	pCi/L				1 E903.0	12/16/08 23:17/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	12/16/08 23:17/eli-c
Radium 226 MDC	0.2	pCi/L				1 E903.0	12/16/08 23:17/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	12/12/08 16:26/eli-c
Gross Gamma	0.0	pCi/L	U	20		1 E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-2	pCi/L	U			1 E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.3	pCi/L				1 E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1 E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.031	pCi/L	U			1 RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.23	pCi/L				1 RMO-3008	12/30/08 08:57/eli-c
Radium 226	0.8	pCi/L				1 E903.0	12/18/08 15:28/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	12/18/08 15:28/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-007
Client Sample ID: DewBurd GW3026

Report Date: 01/29/09
Collection Date: 11/18/08 11:19
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 15:28/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	505	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	85.3	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 07:33/eli-c
Arsenic	0.006	mg/L		0.001		1	E200.8	12/05/08 07:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 07:33/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 07:33/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/10/08 22:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 07:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 07:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 07:33/eli-c
Iron	14.5	mg/L		0.03		2	E200.7	12/10/08 22:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 07:33/eli-c
Manganese	1.00	mg/L		0.01		1	E200.8	12/05/08 07:33/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/24/08 08:57/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 07:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 07:33/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 07:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 14:22/eli-c
Strontium	5.7	mg/L		0.1		1	E200.8	12/05/08 07:33/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 07:33/eli-c
Uranium	0.0044	mg/L		0.0003		1	E200.8	12/05/08 07:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 07:33/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.27	%				1	A1030 E	01/29/09 00:00/jmh
Anions	32.8	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	36.4	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	2210	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03					1	A1030 E	01/29/09 00:00/jmh

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-008
Client Sample ID: DewBurd GW698

Report Date: 01/29/09
Collection Date: 11/18/08 12:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	112	mg/L		5		1	A2320 B	11/25/08 11:43/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:43/mb
Bicarbonate as HCO3	137	mg/L		5		1	A2320 B	11/25/08 11:43/mb
Calcium	388	mg/L		0.5		2	E200.7	12/10/08 17:49/eli-c
Chloride	10	mg/L		1		1	E300.0	11/20/08 21:03/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/20/08 21:03/jmh
Magnesium	141	mg/L		0.5		2	E200.7	12/10/08 17:49/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 21:03/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 21:03/jmh
Potassium	15.5	mg/L		0.5		2	E200.7	12/10/08 17:49/eli-c
Sodium	86	mg/L	D	2		2	E200.7	12/10/08 17:49/eli-c
Sulfate	1360	mg/L	D	3		50	E300.0	11/21/08 06:21/jmh
Silica	11.1	mg/L		0.2		2	E200.7	12/10/08 17:49/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2300	umhos/cm		5.0		1	A2510 B	11/25/08 15:38/tb
Oxidation-Reduction Potential	300	mV				1	A2580 B	11/25/08 16:00/jmh
pH	7.42	s.u.		0.01		1	A4500-H B	11/25/08 14:54/tb
Sodium Adsorption Ratio (SAR)	0.95	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	11/21/08 11:34/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:01/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 21:01/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:01/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	12/10/08 17:49/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:01/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:01/eli-c
Iron	2.54	mg/L		0.03		2	E200.7	12/10/08 17:49/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:01/eli-c
Manganese	2.25	mg/L		0.01		1	E200.8	12/03/08 21:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:01/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:01/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:01/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/05/08 04:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:01/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-008
 Client Sample ID: DewBurd GW698

Report Date: 01/29/09
 Collection Date: 11/18/08 12:00
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.106	mg/L		0.0003		1	E200.8	12/03/08 21:01/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 21:01/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 21:01/eli-c
METALS - SUSPENDED								
Uranium	0.0042	mg/L		0.0003		1	E200.8	12/11/08 02:16/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:53/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1680	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Alpha precision (±)	40.3	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Alpha MDC	8.9	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Beta	619	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Beta precision (±)	12.6	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Beta MDC	9.4	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Lead 210	1.4	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	403	pCi/L				1	E903.0	12/16/08 23:17/eli-ca
Radium 226 precision (±)	3.6	pCi/L				1	E903.0	12/16/08 23:17/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/16/08 23:17/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	1700	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	260	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.4	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	1.6	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.98	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	9.0	pCi/L				1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.9	pCi/L				1	E903.0	12/18/08 17:20/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-008
Client Sample ID: DewBurd GW698

Report Date: 01/29/09
Collection Date: 11/18/08 12:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 MDC	0.4	pCi/L				1 E903.0	12/18/08 17:20/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1 E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	37400	pCi/L		100		1 D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	303	pCi/L				1 D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	12/09/08 22:05/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	12/08/08 14:29/eli-c
Barium	ND	mg/L		0.1		1 E200.8	12/09/08 22:05/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	12/08/08 14:29/eli-c
Boron	ND	mg/L		0.1		2 E200.7	12/12/08 19:46/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	12/09/08 22:05/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	12/08/08 14:29/eli-c
Copper	ND	mg/L		0.01		1 E200.8	12/09/08 22:05/eli-c
Iron	4.42	mg/L		0.03		2 E200.7	12/12/08 19:46/eli-c
Lead	ND	mg/L		0.001		1 E200.8	12/08/08 14:29/eli-c
Manganese	2.31	mg/L		0.01		1 E200.8	12/08/08 14:29/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	11/24/08 08:59/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	12/09/08 22:05/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	12/08/08 14:29/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	12/08/08 14:29/eli-c
Silver	ND	mg/L		0.005		1 E200.8	12/08/08 14:29/eli-c
Strontium	4.4	mg/L		0.1		1 E200.8	12/09/08 22:05/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	12/09/08 22:05/eli-c
Uranium	0.103	mg/L		0.0003		1 E200.8	12/09/08 22:05/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/09/08 22:05/eli-c
DATA QUALITY							
A/C Balance (± 5)	6.79	%				1 A1030 E	01/29/09 00:00/jmh
Anions	30.9	meq/L				1 A1030 E	01/29/09 00:00/jmh
Cations	35.4	meq/L				1 A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	2100	mg/L				1 A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.05					1 A1030 E	01/29/09 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-009
 Client Sample ID: DewBurd GW695

Report Date: 01/29/09
 Collection Date: 11/18/08 13:25
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B	11/25/08 11:44/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:44/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B	11/25/08 11:44/mb
Calcium	52.7	mg/L		0.5		2	E200.7	12/10/08 17:53/eli-c
Chloride	13	mg/L		1		1	E300.0	11/20/08 21:53/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/20/08 21:53/jmh
Magnesium	19.0	mg/L		0.5		2	E200.7	12/10/08 17:53/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:27/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 21:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 21:53/jmh
Potassium	8.7	mg/L		0.5		2	E200.7	12/10/08 17:53/eli-c
Sodium	253	mg/L	D	2		2	E200.7	12/10/08 17:53/eli-c
Sulfate	481	mg/L	D	3		50	E300.0	11/21/08 06:38/jmh
Silica	8.9	mg/L		0.2		2	E200.7	12/10/08 17:53/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1290	umhos/cm		5.0		1	A2510 B	11/25/08 15:39/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.18	s.u.		0.01		1	A4500-H B	11/25/08 14:55/tb
Sodium Adsorption Ratio (SAR)	7.6	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5		1	A2540 C	11/21/08 11:35/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:08/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 21:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:08/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 17:53/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:08/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:08/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 17:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:08/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	12/03/08 21:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:08/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:08/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:08/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 17:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:08/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-009
 Client Sample ID: DewBurd GW695

Report Date: 01/29/09
 Collection Date: 11/18/08 13:25
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0029	mg/L		0.0003		1 E200.8	12/03/08 21:08/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	12/03/08 21:08/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/03/08 21:08/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	12/11/08 02:22/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	12/04/08 15:55/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	19.2	pCi/L				1 E900.0	12/24/08 13:29/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1 E900.0	12/24/08 13:29/eli-c
Gross Alpha MDC	4.4	pCi/L				1 E900.0	12/24/08 13:29/eli-c
Gross Beta	9.7	pCi/L				1 E900.0	12/24/08 13:29/eli-c
Gross Beta precision (±)	3.5	pCi/L				1 E900.0	12/24/08 13:29/eli-c
Gross Beta MDC	5.6	pCi/L				1 E900.0	12/24/08 13:29/eli-c
Lead 210	0.3	pCi/L	U			1 E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1 E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1 E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.19	pCi/L				1 RMO-3008	12/11/08 10:19/eli-c
Radium 226	4.8	pCi/L				1 E903.0	12/16/08 23:17/eli-c
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	12/16/08 23:17/eli-c
Radium 226 MDC	0.2	pCi/L				1 E903.0	12/16/08 23:17/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1 E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	12/12/08 16:26/eli-c
Gross Gamma	1100	pCi/L		20		1 E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	190	pCi/L				1 E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.9	pCi/L	U			1 E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L				1 E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1 E909.0M	12/18/08 07:13/eli-c
Polonium 210	0.058	pCi/L	U			1 RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1 RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.2	pCi/L	U			1 E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	12/18/08 17:20/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-009
Client Sample ID: DewBurd GW695

Report Date: 01/29/09
Collection Date: 11/18/08 13:25
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 MDC	0.4	pCi/L				1 E903.0	12/18/08 17:20/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	2020	pCi/L		100		1 D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	102	pCi/L				1 D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	12/05/08 07:53/eli-c
Arsenic	0.001	mg/L		0.001		1 E200.8	12/05/08 07:53/eli-c
Barium	ND	mg/L		0.1		1 E200.8	12/05/08 07:53/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	12/05/08 07:53/eli-c
Boron	ND	mg/L		0.1		2 E200.7	12/10/08 23:01/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	12/05/08 07:53/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	12/05/08 07:53/eli-c
Copper	ND	mg/L		0.01		1 E200.8	12/05/08 07:53/eli-c
Iron	0.16	mg/L		0.03		2 E200.7	12/10/08 23:01/eli-c
Lead	ND	mg/L		0.001		1 E200.8	12/05/08 07:53/eli-c
Manganese	0.08	mg/L		0.01		1 E200.8	12/05/08 07:53/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	11/24/08 09:09/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	12/05/08 07:53/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	12/05/08 07:53/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	12/05/08 07:53/eli-c
Silver	ND	mg/L		0.005		1 E200.8	12/08/08 14:36/eli-c
Strontium	0.9	mg/L		0.1		1 E200.8	12/05/08 07:53/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	12/05/08 07:53/eli-c
Uranium	0.0026	mg/L		0.0003		1 E200.8	12/05/08 07:53/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/05/08 07:53/eli-c
DATA QUALITY							
A/C Balance (± 5)	5.57	%				1 A1030 E	01/29/09 00:00/jmh
Anions	13.8	meq/L				1 A1030 E	01/29/09 00:00/jmh
Cations	15.4	meq/L				1 A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	954	mg/L				1 A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1 A1030 E	01/29/09 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-010
Client Sample ID: DewBurd GW697

Report Date: 01/29/09
Collection Date: 11/18/08 13:35
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	164	mg/L		5			1	A2320 B	11/25/08 11:46/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/25/08 11:46/mb
Bicarbonate as HCO3	200	mg/L		5			1	A2320 B	11/25/08 11:46/mb
Calcium	54.5	mg/L		0.5			2	E200.7	12/10/08 17:57/eli-c
Chloride	9	mg/L		1			1	E300.0	11/20/08 22:42/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	11/20/08 22:42/jmh
Magnesium	17.7	mg/L		0.5			2	E200.7	12/10/08 17:57/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	11/25/08 17:28/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	11/20/08 22:42/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/20/08 22:42/jmh
Potassium	8.5	mg/L		0.5			2	E200.7	12/10/08 17:57/eli-c
Sodium	219	mg/L	D	2			2	E200.7	12/10/08 17:57/eli-c
Sulfate	430	mg/L	D	3			50	E300.0	11/21/08 06:54/jmh
Silica	9.3	mg/L		0.2			2	E200.7	12/10/08 17:57/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1180	umhos/cm		5.0			1	A2510 B	11/25/08 15:40/tb
Oxidation-Reduction Potential	280	mV					1	A2580 B	11/25/08 16:00/jmh
pH	8.24	s.u.		0.01			1	A4500-H B	11/25/08 14:56/tb
Sodium Adsorption Ratio (SAR)	6.6	unitless		0.10			1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	820	mg/L		5			1	A2540 C	11/21/08 11:35/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	12/03/08 21:15/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	12/03/08 21:15/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/03/08 21:15/eli-c
Boron	ND	mg/L		0.1			2	E200.7	12/10/08 17:57/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/03/08 21:15/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/03/08 21:15/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/03/08 21:15/eli-c
Iron	0.04	mg/L		0.03			2	E200.7	12/10/08 17:57/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/03/08 21:15/eli-c
Manganese	0.05	mg/L		0.01			1	E200.8	12/03/08 21:15/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	12/03/08 21:15/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	12/03/08 21:15/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/03/08 21:15/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	12/05/08 10:07/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/08/08 17:18/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	12/03/08 21:15/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-010
 Client Sample ID: DewBurd GW697

Report Date: 01/29/09
 Collection Date: 11/18/08 13:35
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/03/08 21:15/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 21:15/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 21:15/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 02:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 15:58/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	12.7	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Alpha precision (±)	3.2	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Alpha MDC	3.9	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Beta	11.4	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Beta precision (±)	2.3	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Beta MDC	3.6	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Lead 210	-0.8	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	1.7	pCi/L				1	E903.0	12/17/08 00:57/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/17/08 00:57/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/17/08 00:57/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	210	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.6	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.0042	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/18/08 17:20/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-010
 Client Sample ID: DewBurd GW697

Report Date: 01/29/09
 Collection Date: 11/18/08 13:35
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	12/18/08 17:20/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	412	pCi/L		100		1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	82.7	pCi/L				1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/05/08 07:59/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/05/08 07:59/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/05/08 07:59/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	12/05/08 07:59/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 23:05/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/05/08 07:59/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/05/08 07:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/05/08 07:59/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	12/10/08 23:05/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/05/08 07:59/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/05/08 07:59/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/24/08 09:11/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	12/05/08 07:59/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/05/08 07:59/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/05/08 07:59/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 14:43/eli-c
Strontium	1.1	mg/L		0.1		1	E200.8	12/05/08 07:59/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/05/08 07:59/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/05/08 07:59/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/05/08 07:59/eli-c
DATA QUALITY								
A/C Balance (± 5)	5.48	%				1	A1030 E	01/29/09 00:00/jmh
Anions	12.5	meq/L				1	A1030 E	01/29/09 00:00/jmh
Cations	14.0	meq/L				1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	863	mg/L				1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	01/29/09 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-011
 Client Sample ID: DewBurd GW689

Report Date: 01/29/09
 Collection Date: 11/18/08 14:02
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B	11/25/08 11:49/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:49/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B	11/25/08 11:49/mb
Calcium	45.3	mg/L		0.5		2	E200.7	12/10/08 18:01/eli-c
Chloride	5	mg/L		1		1	E300.0	11/20/08 22:58/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	11/20/08 22:58/jmh
Magnesium	15.7	mg/L		0.5		2	E200.7	12/10/08 18:01/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 22:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 22:58/jmh
Potassium	7.6	mg/L		0.5		2	E200.7	12/10/08 18:01/eli-c
Sodium	179	mg/L	D	2		2	E200.7	12/10/08 18:01/eli-c
Sulfate	379	mg/L	D	3		50	E300.0	11/21/08 07:44/jmh
Silica	9.6	mg/L		0.2		2	E200.7	12/10/08 18:01/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	982	umhos/cm		5.0		1	A2510 B	11/25/08 15:43/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.45	s.u.		0.01		1	A4500-H B	11/25/08 14:58/tb
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	660	mg/L		5		1	A2540 C	11/21/08 11:49/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:21/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 21:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:21/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 18:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:21/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:21/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 18:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:21/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	12/03/08 21:21/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:21/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:21/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 18:13/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:21/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-011
 Client Sample ID: DewBurd GW689

Report Date: 01/29/09
 Collection Date: 11/18/08 14:02
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0033	mg/L		0.0003		1	E200.8	12/03/08 21:21/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 21:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 21:21/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 02:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 16:00/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	37.9	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Alpha precision (±)	4.1	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Alpha MDC	3.2	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Beta	15.3	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Gross Beta MDC	3.5	pCi/L				1	E900.0	12/24/08 13:29/eli-ca
Lead 210	-1	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	6.6	pCi/L				1	E903.0	12/17/08 00:57/eli-ca
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	12/17/08 00:57/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/17/08 00:57/eli-ca
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	1100	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.6	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	-0.039	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.04	pCi/L	U			1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	12/18/08 17:20/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-011
 Client Sample ID: DewBurd GW689

Report Date: 01/29/09
 Collection Date: 11/18/08 14:02
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		DF	Method	Analysis Date / By
					QCL				
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.4	pCi/L					1	E903.0	12/18/08 17:20/eli-c
Thorium 230	-0.2	pCi/L	U	0.2			1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	2580	pCi/L		100			1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	108	pCi/L					1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/08/08 19:41/eli-c
Arsenic	0.006	mg/L	D	0.005			1	E200.8	12/13/08 00:36/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/08/08 19:41/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	12/08/08 19:41/eli-c
Boron	ND	mg/L		0.1			2	E200.7	12/12/08 19:50/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/08/08 19:41/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/08/08 19:41/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/08/08 19:41/eli-c
Iron	0.56	mg/L		0.03			2	E200.7	12/12/08 19:50/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/08/08 19:41/eli-c
Manganese	0.05	mg/L		0.01			1	E200.8	12/08/08 19:41/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	11/24/08 09:14/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	12/08/08 19:41/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/08/08 19:41/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/08/08 19:41/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/08/08 19:41/eli-c
Strontium	0.9	mg/L		0.1			1	E200.8	12/08/08 19:41/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/08/08 19:41/eli-c
Uranium	0.0031	mg/L		0.0003			1	E200.8	12/08/08 19:41/eli-c
Zinc	ND	mg/L		0.01			2	E200.7	12/12/08 19:50/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.10	%					1	A1030 E	01/29/09 00:00/jmh
Anions	11.1	meq/L					1	A1030 E	01/29/09 00:00/jmh
Cations	11.6	meq/L					1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	749	mg/L					1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.880						1	A1030 E	01/29/09 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-012
Client Sample ID: DewBurd GW681

Report Date: 01/29/09
Collection Date: 11/18/08 13:55
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B	11/25/08 11:50/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:50/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B	11/25/08 11:50/mb
Calcium	64.7	mg/L		0.5		2	E200.7	12/10/08 18:13/eli-c
Chloride	16	mg/L		1		1	E300.0	11/20/08 23:15/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/20/08 23:15/jmh
Magnesium	24.5	mg/L		0.5		2	E200.7	12/10/08 18:13/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 23:15/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 23:15/jmh
Potassium	9.7	mg/L		0.5		2	E200.7	12/10/08 18:13/eli-c
Sodium	218	mg/L	D	2		2	E200.7	12/10/08 18:13/eli-c
Sulfate	478	mg/L	D	3		50	E300.0	11/21/08 08:33/jmh
Silica	8.7	mg/L		0.2		2	E200.7	12/10/08 18:13/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1270	umhos/cm		5.0		1	A2510 B	11/25/08 15:46/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.16	s.u.		0.01		1	A4500-H B	11/25/08 15:00/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	11/21/08 11:49/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:28/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/03/08 21:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:28/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 18:13/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:28/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:28/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 18:13/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:28/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	12/03/08 21:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:28/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:28/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:28/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 18:20/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:28/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-012
Client Sample ID: DewBurd GW681

Report Date: 01/29/09
Collection Date: 11/18/08 13:55
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0098	mg/L		0.0003		1 E200.8	12/03/08 21:28/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	12/03/08 21:28/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/03/08 21:28/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	12/11/08 04:32/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	12/04/08 16:07/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1850	pCi/L				1 E900.0	12/24/08 13:29/eli-ce
Gross Alpha precision (±)	29.4	pCi/L				1 E900.0	12/24/08 13:29/eli-ce
Gross Alpha MDC	4.3	pCi/L				1 E900.0	12/24/08 13:29/eli-ce
Gross Beta	605	pCi/L				1 E900.0	12/24/08 13:29/eli-ce
Gross Beta precision (±)	9.2	pCi/L				1 E900.0	12/24/08 13:29/eli-ce
Gross Beta MDC	5.6	pCi/L				1 E900.0	12/24/08 13:29/eli-ce
Lead 210	29.0	pCi/L				1 E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	5.6	pCi/L				1 E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	8.7	pCi/L				1 E909.0M	12/11/08 10:00/eli-c
Polonium 210	2.9	pCi/L		1.0		1 RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1 RMO-3008	12/11/08 10:19/eli-c
Radium 226	398	pCi/L				1 E903.0	12/17/08 00:57/eli-ce
Radium 226 precision (±)	3.7	pCi/L				1 E903.0	12/17/08 00:57/eli-ce
Radium 226 MDC	0.2	pCi/L				1 E903.0	12/17/08 00:57/eli-ce
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	12/12/08 16:26/eli-c
Gross Gamma	2100	pCi/L		20		1 E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	270	pCi/L				1 E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	10.8	pCi/L				1 E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.6	pCi/L				1 E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1 E909.0M	12/18/08 07:13/eli-c
Polonium 210	2.2	pCi/L				1 RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.88	pCi/L				1 RMO-3008	12/30/08 08:57/eli-c
Radium 226	0.08	pCi/L	U			1 E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	12/18/08 17:20/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-012
 Client Sample ID: DewBurd GW681

Report Date: 01/29/09
 Collection Date: 11/18/08 13:55
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.4	pCi/L					1	E903.0	12/18/08 17:20/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	335000	pCi/L		100			1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	872	pCi/L					1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/05/08 08:06/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	12/05/08 08:06/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/05/08 08:06/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	12/05/08 08:06/eli-c
Boron	ND	mg/L		0.1			2	E200.7	12/10/08 23:10/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/05/08 08:06/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/05/08 08:06/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/05/08 08:06/eli-c
Iron	0.06	mg/L		0.03			2	E200.7	12/10/08 23:10/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/05/08 08:06/eli-c
Manganese	0.09	mg/L		0.01			1	E200.8	12/05/08 08:06/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	11/24/08 09:16/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	12/05/08 08:06/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/05/08 08:06/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/05/08 08:06/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/08/08 16:24/eli-c
Strontium	1.1	mg/L		0.1			1	E200.8	12/05/08 08:06/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/05/08 08:06/eli-c
Uranium	0.0087	mg/L		0.0003			1	E200.8	12/05/08 08:06/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	12/05/08 08:06/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.94	%					1	A1030 E	01/29/09 00:00/jmh
Anions	13.9	meq/L					1	A1030 E	01/29/09 00:00/jmh
Cations	15.0	meq/L					1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	939	mg/L					1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	01/29/09 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-013
Client Sample ID: DewBurd GW615

Report Date: 01/29/09
Collection Date: 11/18/08 15:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	138	mg/L		5			1	A2320 B	11/25/08 11:53/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	11/25/08 11:53/mb
Bicarbonate as HCO3	168	mg/L		5			1	A2320 B	11/25/08 11:53/mb
Calcium	77.0	mg/L		0.5			2	E200.7	12/10/08 18:21/eli-c
Chloride	5	mg/L		1			1	E300.0	11/20/08 23:31/jmh
Fluoride	0.5	mg/L		0.1			1	E300.0	11/20/08 23:31/jmh
Magnesium	22.6	mg/L		0.5			2	E200.7	12/10/08 18:21/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	11/25/08 17:32/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	11/20/08 23:31/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	11/20/08 23:31/jmh
Potassium	8.9	mg/L		0.5			2	E200.7	12/10/08 18:21/eli-c
Sodium	135	mg/L	D	2			2	E200.7	12/10/08 18:21/eli-c
Sulfate	391	mg/L	D	3			50	E300.0	11/21/08 08:49/jmh
Silica	9.1	mg/L		0.2			2	E200.7	12/10/08 18:21/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	973	umhos/cm		5.0			1	A2510 B	11/25/08 15:47/tb
Oxidation-Reduction Potential	280	mV					1	A2580 B	11/25/08 16:00/jmh
pH	8.04	s.u.		0.01			1	A4500-H B	11/25/08 15:01/tb
Sodium Adsorption Ratio (SAR)	3.5	unitless		0.10			1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	700	mg/L		5			1	A2540 C	11/21/08 11:50/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	12/03/08 21:35/eli-c
Arsenic	0.012	mg/L		0.001			1	E200.8	12/03/08 21:35/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/03/08 21:35/eli-c
Boron	ND	mg/L		0.1			2	E200.7	12/10/08 18:21/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/03/08 21:35/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/03/08 21:35/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/03/08 21:35/eli-c
Iron	ND	mg/L		0.03			2	E200.7	12/10/08 18:21/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/03/08 21:35/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	12/03/08 21:35/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	12/03/08 21:35/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	12/03/08 21:35/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/03/08 21:35/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	12/05/08 10:18/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/08/08 18:26/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	12/03/08 21:35/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-013
Client Sample ID: DewBurd GW615

Report Date: 01/29/09
Collection Date: 11/18/08 15:00
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0026	mg/L		0.0003		1	E200.8	12/03/08 21:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/03/08 21:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/03/08 21:35/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/11/08 04:39/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/04/08 16:09/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	13.9	pCi/L				1	E900.0	12/24/08 13:29/eli-ce
Gross Alpha precision (±)	2.9	pCi/L				1	E900.0	12/24/08 13:29/eli-ce
Gross Alpha MDC	3.2	pCi/L				1	E900.0	12/24/08 13:29/eli-ce
Gross Beta	4.2	pCi/L				1	E900.0	12/24/08 13:29/eli-ce
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	12/24/08 13:29/eli-ce
Gross Beta MDC	3.5	pCi/L				1	E900.0	12/24/08 13:29/eli-ce
Lead 210	-0.2	pCi/L	U			1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	4.4	pCi/L				1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	1.9	pCi/L				1	E903.0	12/17/08 00:57/eli-ce
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/17/08 00:57/eli-ce
Radium 226 MDC	0.2	pCi/L				1	E903.0	12/17/08 00:57/eli-ce
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	12/12/08 16:26/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	12/12/08 16:26/eli-c
Gross Gamma	960	pCi/L		20		1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.5	pCi/L	U			1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	0.097	pCi/L	U			1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	0.04	pCi/L	U			1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/18/08 17:20/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-013
 Client Sample ID: DewBurd GW615

Report Date: 01/29/09
 Collection Date: 11/18/08 15:00
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.4	pCi/L					1	E903.0	12/18/08 17:20/eli-c
Thorium 230	-0.2	pCi/L	U	0.2			1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1800	pCi/L		100			1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	99.1	pCi/L					1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/05/08 08:12/eli-c
Arsenic	0.022	mg/L		0.001			1	E200.8	12/05/08 08:12/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/05/08 08:12/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	12/05/08 08:12/eli-c
Boron	ND	mg/L		0.1			2	E200.7	12/10/08 23:14/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/05/08 08:12/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/05/08 08:12/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/05/08 08:12/eli-c
Iron	1.19	mg/L		0.03			2	E200.7	12/10/08 23:14/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/05/08 08:12/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	12/05/08 08:12/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	11/24/08 09:18/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	12/05/08 08:12/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/05/08 08:12/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/05/08 08:12/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/08/08 16:45/eli-c
Strontium	1.3	mg/L		0.1			1	E200.8	12/05/08 08:12/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/05/08 08:12/eli-c
Uranium	0.0022	mg/L		0.0003			1	E200.8	12/05/08 08:12/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	12/05/08 08:12/eli-c
DATA QUALITY									
A/C Balance (± 5)	3.16	%					1	A1030 E	01/29/09 00:00/jmh
Anions	11.1	meq/L					1	A1030 E	01/29/09 00:00/jmh
Cations	11.8	meq/L					1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	747	mg/L					1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940						1	A1030 E	01/29/09 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-014
Client Sample ID: DewBurd GW622

Report Date: 01/29/09
Collection Date: 11/18/08 14:30
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	11/25/08 11:54/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/25/08 11:54/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	11/25/08 11:54/mb
Calcium	92.4	mg/L		0.5		2	E200.7	12/10/08 18:25/eli-c
Chloride	11	mg/L		1		1	E300.0	11/20/08 23:47/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/20/08 23:47/jmh
Magnesium	31.7	mg/L		0.5		2	E200.7	12/10/08 18:25/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/25/08 17:33/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/08 23:47/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/20/08 23:47/jmh
Potassium	10.5	mg/L		0.5		2	E200.7	12/10/08 18:25/eli-c
Sodium	180	mg/L	D	2		2	E200.7	12/10/08 18:25/eli-c
Sulfate	480	mg/L	D	3		50	E300.0	11/21/08 09:06/jmh
Silica	8.5	mg/L		0.2		2	E200.7	12/10/08 18:25/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1180	umhos/cm		5.0		1	A2510 B	11/25/08 15:49/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	11/25/08 16:00/jmh
pH	8.01	s.u.		0.01		1	A4500-H B	11/25/08 15:02/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10		1	Calculation	01/29/09 11:40/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5		1	A2540 C	11/21/08 11:50/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/03/08 21:55/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/03/08 21:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/03/08 21:55/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/10/08 18:25/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/03/08 21:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/03/08 21:55/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/03/08 21:55/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/10/08 18:25/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/03/08 21:55/eli-c
Manganese	0.17	mg/L		0.01		1	E200.8	12/03/08 21:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/03/08 21:55/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/03/08 21:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/03/08 21:55/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	12/05/08 10:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/08/08 18:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/03/08 21:55/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08110211-014
Client Sample ID: DewBurd GW622

Report Date: 01/29/09
Collection Date: 11/18/08 14:30
Date Received: 11/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Uranium	0.0055	mg/L		0.0003			1	E200.8	12/03/08 21:55/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	12/03/08 21:55/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	12/03/08 21:55/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	12/11/08 04:45/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	12/04/08 16:11/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	12/05/08 11:31/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	32.6	pCi/L					1	E900.0	12/24/08 13:29/eli-c
Gross Alpha precision (±)	4.6	pCi/L					1	E900.0	12/24/08 13:29/eli-c
Gross Alpha MDC	4.2	pCi/L					1	E900.0	12/24/08 13:29/eli-c
Gross Beta	17.6	pCi/L					1	E900.0	12/24/08 13:29/eli-c
Gross Beta precision (±)	2.7	pCi/L					1	E900.0	12/24/08 13:29/eli-c
Gross Beta MDC	4.1	pCi/L					1	E900.0	12/24/08 13:29/eli-c
Lead 210	-2	pCi/L	U				1	E909.0M	12/11/08 10:00/eli-c
Lead 210 precision (±)	5.2	pCi/L					1	E909.0M	12/11/08 10:00/eli-c
Lead 210 MDC	8.7	pCi/L					1	E909.0M	12/11/08 10:00/eli-c
Polonium 210	0.1	pCi/L	U	1.0			1	RMO-3008	12/11/08 10:19/eli-c
Polonium 210 precision (±)	0.24	pCi/L					1	RMO-3008	12/11/08 10:19/eli-c
Radium 226	2.9	pCi/L					1	E903.0	12/17/08 00:57/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	12/17/08 00:57/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	12/17/08 00:57/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	12/15/08 08:55/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	12/15/08 08:55/eli-c
Gross Gamma	910	pCi/L		20			1	E901.1	12/03/08 15:07/eli-c
Gross Gamma precision (±)	210	pCi/L					1	E901.1	12/03/08 15:07/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	0.0	pCi/L	U				1	E909.0M	12/18/08 07:13/eli-c
Lead 210 precision (±)	5.4	pCi/L					1	E909.0M	12/18/08 07:13/eli-c
Lead 210 MDC	9.0	pCi/L					1	E909.0M	12/18/08 07:13/eli-c
Polonium 210	0.24	pCi/L	U				1	RMO-3008	12/30/08 08:57/eli-c
Polonium 210 precision (±)	0.42	pCi/L					1	RMO-3008	12/30/08 08:57/eli-c
Radium 226	-0.1	pCi/L	U				1	E903.0	12/18/08 17:20/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	12/18/08 17:20/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08110211-014
 Client Sample ID: DewBurd GW622

Report Date: 01/29/09
 Collection Date: 11/18/08 14:30
 Date Received: 11/19/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		DF	Method	Analysis Date / By
					QCL				
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.4	pCi/L					1	E903.0	12/18/08 17:20/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	12/11/08 15:00/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	12/11/08 15:00/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	1280	pCi/L		100			1	D5072-92	11/23/08 09:20/eli-c
Radon 222 precision (±)	93.3	pCi/L					1	D5072-92	11/23/08 09:20/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/05/08 08:45/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	12/05/08 08:45/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/05/08 08:45/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	12/05/08 08:45/eli-c
Boron	ND	mg/L		0.1			2	E200.7	12/10/08 23:18/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/05/08 08:45/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/05/08 08:45/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/05/08 08:45/eli-c
Iron	0.95	mg/L		0.03			2	E200.7	12/10/08 23:18/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/05/08 08:45/eli-c
Manganese	0.18	mg/L		0.01			1	E200.8	12/05/08 08:45/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	11/24/08 09:21/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	12/05/08 08:45/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/05/08 08:45/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/05/08 08:45/eli-c
Silver	ND	mg/L		0.005			1	E200.8	12/08/08 16:51/eli-c
Strontium	1.5	mg/L		0.1			1	E200.8	12/05/08 08:45/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/05/08 08:45/eli-c
Uranium	0.0051	mg/L		0.0003			1	E200.8	12/05/08 08:45/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	12/05/08 08:45/eli-c
DATA QUALITY									
A/C Balance (± 5)	4.85	%					1	A1030 E	01/29/09 00:00/jmh
Anions	13.9	meq/L					1	A1030 E	01/29/09 00:00/jmh
Cations	15.4	meq/L					1	A1030 E	01/29/09 00:00/jmh
Solids, Total Dissolved Calculated	938	mg/L					1	A1030 E	01/29/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	01/29/09 00:00/jmh

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 081125A-ALK-SEL-W		
Sample ID: LCS1_081125A	Laboratory Control Sample					Run: PH_COND1-R_081125A			11/25/08 08:40
Alkalinity, Total as CaCO3	940	mg/L	5.0	94	90	110			
Sample ID: MBLK1_081125A	Method Blank					Run: PH_COND1-R_081125A			11/25/08 08:41
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08110211-005AMS	Sample Matrix Spike					Run: PH_COND1-R_081125A			11/25/08 11:30
Alkalinity, Total as CaCO3	376	mg/L	5.0	119	80	120			
Sample ID: R08110211-005AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_081125A			11/25/08 11:32
Alkalinity, Total as CaCO3	374	mg/L	5.0	117	80	120	0.5	10	
Sample ID: R08110211-014AMS	Sample Matrix Spike					Run: PH_COND1-R_081125A			11/25/08 11:56
Alkalinity, Total as CaCO3	300	mg/L	5.0	113	80	120			
Sample ID: R08110211-014AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_081125A			11/25/08 11:59
Alkalinity, Total as CaCO3	300	mg/L	5.0	113	80	120	0	10	
Method: A2510 B							Batch: 081125_1_COND-PROBE-W		
Sample ID: LCS_COND-1_081125	Laboratory Control Sample					Run: PH_COND2-R_081125B			11/25/08 15:23
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_081125	Laboratory Control Sample					Run: PH_COND2-R_081125B			11/25/08 15:24
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_081125	Laboratory Control Sample					Run: PH_COND2-R_081125B			11/25/08 15:26
Conductivity @ 25 C	4960	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_081125	Method Blank					Run: PH_COND2-R_081125B			11/25/08 15:23
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08110211-010ADUP	Sample Duplicate					Run: PH_COND2-R_081125B			11/25/08 15:42
Conductivity @ 25 C	1170	umhos/cm	5.0				0.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 081121A-SLDS-TDS-W		
Sample ID: LCS1_081121A	Laboratory Control Sample					Run: BAL-4-R_081121A			11/21/08 10:50
Solids, Total Dissolved TDS @ 180 C	190	mg/L	5.0	92	90	110			
Sample ID: MBLK1_081121A	Method Blank					Run: BAL-4-R_081121A			11/21/08 10:52
Solids, Total Dissolved TDS @ 180 C	6	mg/L	3						
Sample ID: R08110211-004AMS	Sample Matrix Spike					Run: BAL-4-R_081121A			11/21/08 11:32
Solids, Total Dissolved TDS @ 180 C	980	mg/L	5.0	101	80	120			
Sample ID: R08110211-004AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_081121A			11/21/08 11:33
Solids, Total Dissolved TDS @ 180 C	990	mg/L	5.0	103	80	120	0.4	10	
Sample ID: R08110211-014AMS	Sample Matrix Spike					Run: BAL-4-R_081121A			11/21/08 11:51
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	117	80	120			
Sample ID: R08110211-014AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_081121A			11/21/08 11:51
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	111	80	120	1.1	10	
Method: A2580 B							Batch: 081125-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_081125B			11/25/08 16:00
Oxidation-Reduction Potential	480	mV		101	95	105			
Sample ID: R08110211-001F	Sample Duplicate					Run: PH_COND1-R_081125B			11/25/08 16:00
Oxidation-Reduction Potential	310	mV					6.7	10	
Sample ID: R08110211-011F	Sample Duplicate					Run: PH_COND1-R_081125B			11/25/08 16:00
Oxidation-Reduction Potential	280	mV					0.1	10	
Method: A3114 B							Batch: C_SE3114-081205		
Sample ID: MBLK	Method Blank					Run: SUB-C111885			12/05/08 09:31
Selenium	ND	mg/L	0.0003						
Sample ID: 288-178-1	Laboratory Control Sample					Run: SUB-C111885			12/05/08 09:33
Selenium	0.049	mg/L	0.0010	99	90	110			
Sample ID: R08110211-001E	Sample Matrix Spike					Run: SUB-C111885			12/05/08 09:40
Selenium	0.047	mg/L	0.0010	93	85	115			
Sample ID: R08110211-001E	Sample Matrix Spike Duplicate					Run: SUB-C111885			12/05/08 09:42
Selenium	0.047	mg/L	0.0010	95	85	115	1.9	15	
Sample ID: R08110211-011E	Sample Matrix Spike					Run: SUB-C111885			12/05/08 10:12
Selenium	0.045	mg/L	0.0010	90	85	115			
Sample ID: R08110211-011E	Sample Matrix Spike Duplicate					Run: SUB-C111885			12/05/08 10:14
Selenium	0.046	mg/L	0.0010	92	85	115	2.7	15	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV3114-081204		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	0.0003						
						Run: SUB-C111846			12/04/08 15:21
Sample ID: 288-178-1 Selenium-IV	Laboratory Control Sample 0.051	mg/L	0.0010	101	90	110			12/04/08 15:23
Sample ID: R08110211-001E Selenium-IV	Sample Matrix Spike 0.052	mg/L	0.0010	104	85	115			12/04/08 15:30
Sample ID: R08110211-001E Selenium-IV	Sample Matrix Spike Duplicate 0.053	mg/L	0.0010	106	85	115	1.8	10	12/04/08 15:32
Sample ID: R08110211-011E Selenium-IV	Sample Matrix Spike 0.050	mg/L	0.0010	99	85	115			12/04/08 16:02
Sample ID: R08110211-011E Selenium-IV	Sample Matrix Spike Duplicate 0.048	mg/L	0.0010	95	85	115	4.1	10	12/04/08 16:04
Method: A4500-H B							Batch: 081125_1_PH-W		
Sample ID: LCS_pH-1_081125 pH	Laboratory Control Sample 6.86	s.u.	0.010	100	98.55	101.45			11/25/08 14:42
Sample ID: R08110211-010ADUP pH	Sample Duplicate 8.24	s.u.	0.010				0	1.25	11/25/08 14:57

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-11-25_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01			Run: TECHAA2-R_081125A			11/25/08 14:44
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110			11/25/08 14:45
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	105	90	110			11/25/08 14:46
Sample ID: R08110211-001BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.25	mg/L	0.10	101	80	120			11/25/08 17:11
Sample ID: R08110211-001BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.25	mg/L	0.10	99	80	120	1.6	10	11/25/08 17:12
Sample ID: R08110211-008BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.43	mg/L	0.10	108	80	120			11/25/08 17:25
Sample ID: R08110211-008BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.42	mg/L	0.10	107	80	120	0.9	10	11/25/08 17:26
Sample ID: R08110220-001CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.24	mg/L	0.10	94	80	120			11/25/08 17:38
Sample ID: R08110220-001CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.24	mg/L	0.10	96	80	120	2.1	10	11/25/08 17:39
Method: D5072-92							Batch: C_R111404		
Sample ID: R08110211-014G Radon 222	Sample Duplicate 1340	pCi/L	100			Run: SUB-C111404	4.4	30	11/23/08 09:20
Sample ID: MB-R111404 Radon 222	Method Blank 50	pCi/L				Run: SUB-C111404			11/23/08 09:20 U
Sample ID: LCS-R111404 Radon 222	Laboratory Control Sample 303	pCi/L	100	83	70	130			11/23/08 09:20

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_20705		
Sample ID: MB-20705	Method Blank				Run: SUB-C112228			12/12/08 19:30	
Boron	0.02	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	0.002	mg/L	0.001						
Sample ID: LCS3-20705	Laboratory Control Sample				Run: SUB-C112228			12/12/08 19:34	
Boron	0.530	mg/L	0.10	106	85	115			
Iron	2.66	mg/L	0.030	106	85	115			
Zinc	0.515	mg/L	0.010	103	85	115			
Sample ID: C08120017-002AMS3	Sample Matrix Spike				Run: SUB-C112228			12/12/08 19:58	
Boron	0.898	mg/L	0.13	109	70	130			
Iron	4.92	mg/L	0.087	124	70	130			
Zinc	0.610	mg/L	0.014	110	70	130			
Sample ID: C08120017-002AMSD3	Sample Matrix Spike Duplicate				Run: SUB-C112228			12/12/08 20:02	
Boron	0.830	mg/L	0.13	95	70	130	7.9	20	
Iron	4.64	mg/L	0.087	113	70	130	5.8	20	
Zinc	0.561	mg/L	0.014	100	70	130	8.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R112099		
Sample ID: R08110211-001C	Sample Matrix Spike			Run: SUB-C112099			12/10/08 16:28		
Boron	2.00	mg/L	0.10	100	70	130			
Iron	2.00	mg/L	0.030	100	70	130			
Silicon	0.733	mg/L	0.10	92	70	130			
Calcium	103	mg/L	1.0	103	70	130			
Magnesium	101	mg/L	1.0	101	70	130			
Potassium	92.3	mg/L	1.0	92	70	130			
Sodium	101	mg/L	1.5	101	70	130			
Silica	1.57	mg/L	0.21	92	70	130			
Sample ID: R08110211-001C	Sample Matrix Spike Duplicate			Run: SUB-C112099			12/10/08 16:32		
Boron	2.04	mg/L	0.10	102	70	130	1.6	20	
Iron	2.02	mg/L	0.030	101	70	130	0.8	20	
Silicon	0.742	mg/L	0.10	93	70	130	1.2	20	
Calcium	104	mg/L	1.0	104	70	130	1.6	20	
Magnesium	102	mg/L	1.0	102	70	130	1.2	20	
Potassium	92.1	mg/L	1.0	92	70	130	0.2	20	
Sodium	102	mg/L	1.5	102	70	130	0.8	20	
Silica	1.59	mg/L	0.21	93	70	130	1.2	20	
Sample ID: R08110211-011C	Sample Matrix Spike			Run: SUB-C112099			12/10/08 18:05		
Boron	2.11	mg/L	0.10	101	70	130			
Iron	2.04	mg/L	0.030	102	70	130			
Silicon	5.05	mg/L	0.10		70	130			A
Calcium	148	mg/L	1.0	103	70	130			
Magnesium	119	mg/L	1.0	103	70	130			
Potassium	96.2	mg/L	1.0	89	70	130			
Sodium	280	mg/L	1.5	101	70	130			
Silica	10.8	mg/L	0.21		70	130			A
Sample ID: R08110211-011C	Sample Matrix Spike Duplicate			Run: SUB-C112099			12/10/08 18:09		
Boron	2.17	mg/L	0.10	104	70	130	2.8	20	
Iron	2.09	mg/L	0.030	104	70	130	2.2	20	
Silicon	5.14	mg/L	0.10		70	130	1.8	20	A
Calcium	151	mg/L	1.0	105	70	130	1.8	20	
Magnesium	120	mg/L	1.0	104	70	130	0.9	20	
Potassium	97.8	mg/L	1.0	90	70	130	1.6	20	
Sodium	278	mg/L	1.5	99	70	130	0.5	20	
Silica	11.0	mg/L	0.21		70	130	1.8	20	A
Sample ID: R08110211-001D	Sample Matrix Spike			Run: SUB-C112099			12/10/08 22:17		
Boron	2.07	mg/L	0.10	103	70	130			
Iron	2.10	mg/L	0.030	103	70	130			
Silicon	0.766	mg/L	0.10	96	70	130			
Calcium	107	mg/L	1.0	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R112099		
Sample ID: R08110211-001D	Sample Matrix Spike		Run: SUB-C112099			12/10/08 22:17			
Magnesium	106	mg/L	1.0	106	70	130			
Potassium	93.4	mg/L	1.0	93	70	130			
Sodium	100.0	mg/L	1.1	100	70	130			
Silica	1.64	mg/L	0.21	82	70	130			
Sample ID: R08110211-001D	Sample Matrix Spike Duplicate		Run: SUB-C112099			12/10/08 22:21			
Boron	2.03	mg/L	0.10	101	70	130	1.9	20	
Iron	2.04	mg/L	0.030	100	70	130	2.9	20	
Silicon	0.753	mg/L	0.10	94	70	130	1.7	20	
Calcium	104	mg/L	1.0	103	70	130	2.9	20	
Magnesium	102	mg/L	1.0	102	70	130	3.9	20	
Potassium	91.0	mg/L	1.0	91	70	130	2.6	20	
Sodium	98.9	mg/L	1.1	99	70	130	1.1	20	
Silica	1.61	mg/L	0.21	81	70	130	1.7	20	
Method: E200.7_8							Batch: C_R112099		
Sample ID: MB-081210A	Method Blank		Run: SUB-C112099			12/10/08 12:20			
Boron	0.03	mg/L	0.008						
Iron	ND	mg/L	0.005						
Silicon	ND	mg/L	0.02						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Silica	ND	mg/L	0.04						
Sample ID: LFB-081210A	Laboratory Fortified Blank		Run: SUB-C112099			12/10/08 12:24			
Boron	1.08	mg/L	0.10	105	85	125			
Iron	1.07	mg/L	0.030	107	85	125			
Silicon	0.381	mg/L	0.021	95	85	125			
Calcium	53.2	mg/L	0.50	106	85	125			
Magnesium	53.8	mg/L	0.50	108	85	125			
Potassium	44.8	mg/L	0.50	90	85	125			
Sodium	49.0	mg/L	0.77	98	85	125			
Silica	0.815	mg/L	0.044	95	85	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20705		
Sample ID: MB-20705	Method Blank		Run: SUB-C111977			12/08/08 19:21			
Antimony	0.0008	mg/L	0.0002						
Arsenic	0.005	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	3E-05	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.003	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	0.0008	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Strontium	0.0002	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-20705	Laboratory Control Sample		Run: SUB-C111977			12/08/08 19:27			
Antimony	0.537	mg/L	0.050	107	85	115			
Arsenic	0.517	mg/L	0.0010	102	85	115			
Barium	0.512	mg/L	0.10	102	85	115			
Beryllium	0.244	mg/L	0.010	98	85	115			
Cadmium	0.249	mg/L	0.010	100	85	115			
Chromium	0.486	mg/L	0.050	97	85	115			
Copper	0.473	mg/L	0.010	94	85	115			
Lead	0.495	mg/L	0.050	99	85	115			
Manganese	2.38	mg/L	0.010	95	85	115			
Molybdenum	0.508	mg/L	0.10	102	85	115			
Nickel	0.477	mg/L	0.050	95	85	115			
Selenium	0.507	mg/L	0.0010	101	85	115			
Silver	0.0534	mg/L	0.010	107	85	115			
Strontium	0.540	mg/L	0.10	108	85	115			
Thallium	0.508	mg/L	0.10	102	85	115			
Uranium	0.537	mg/L	0.00030	107	85	115			
Zinc	0.456	mg/L	0.010	91	85	115			
Sample ID: C08120017-002AMS3	Sample Matrix Spike		Run: SUB-C111977			12/08/08 20:15			
Antimony	0.553	mg/L	0.050	110	70	130			
Arsenic	0.535	mg/L	0.0010	104	70	130			
Barium	0.686	mg/L	0.10	107	70	130			
Beryllium	0.241	mg/L	0.010	96	70	130			
Cadmium	0.247	mg/L	0.010	99	70	130			
Chromium	0.490	mg/L	0.050	97	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20705		
Sample ID: C08120017-002AMS3	Sample Matrix Spike		Run: SUB-C111977				12/08/08 20:15		
Copper	0.474	mg/L	0.010	93	70	130			
Lead	0.514	mg/L	0.050	102	70	130			
Manganese	2.83	mg/L	0.010	96	70	130			
Molybdenum	0.764	mg/L	0.10	107	70	130			
Nickel	0.475	mg/L	0.050	94	70	130			
Selenium	0.561	mg/L	0.0010	100	70	130			
Silver	0.0529	mg/L	0.010	106	70	130			
Strontium	0.972	mg/L	0.10	109	70	130			
Thallium	0.502	mg/L	0.10	100	70	130			
Uranium	0.572	mg/L	0.00030	113	70	130			
Zinc	0.472	mg/L	0.010	89	70	130			
Sample ID: C08120017-002AMSD3	Sample Matrix Spike Duplicate		Run: SUB-C111977				12/08/08 20:49		
Antimony	0.537	mg/L	0.050	107	70	130	2.9	20	
Arsenic	0.523	mg/L	0.0010	101	70	130	2.3	20	
Barium	0.668	mg/L	0.10	103	70	130	2.6	20	
Beryllium	0.235	mg/L	0.010	94	70	130	2.4	20	
Cadmium	0.240	mg/L	0.010	96	70	130	3	20	
Chromium	0.479	mg/L	0.050	95	70	130	2.3	20	
Copper	0.464	mg/L	0.010	91	70	130	2.2	20	
Lead	0.508	mg/L	0.050	101	70	130	1.2	20	
Manganese	2.80	mg/L	0.010	94	70	130	1.3	20	
Molybdenum	0.740	mg/L	0.10	102	70	130	3.1	20	
Nickel	0.463	mg/L	0.050	92	70	130	2.7	20	
Selenium	0.542	mg/L	0.0010	96	70	130	3.5	20	
Silver	0.0517	mg/L	0.010	103	70	130	2.4	20	
Strontium	0.957	mg/L	0.10	106	70	130	1.5	20	
Thallium	0.500	mg/L	0.10	100	70	130	0.5	20	
Uranium	0.568	mg/L	0.00030	113	70	130	0.8	20	
Zinc	0.463	mg/L	0.010	87	70	130	2	20	
Sample ID: MB-20705	Method Blank		Run: SUB-C112034				12/09/08 21:52		
Antimony	0.0004	mg/L	0.0002						
Arsenic	0.004	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.003	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	0.0003	mg/L	3E-05						
Molybdenum	0.0001	mg/L	5E-05						
Nickel	0.0006	mg/L	6E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 01/29/09

Project: Edgemont

Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20705		
Sample ID: MB-20705	Method Blank		Run: SUB-C112034			12/09/08 21:52			
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Strontium	0.0002	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS3-20705	Laboratory Control Sample		Run: SUB-C112034			12/09/08 21:58			
Antimony	0.530	mg/L	0.050	106	85	115			
Arsenic	0.504	mg/L	0.0010	100	85	115			
Barium	0.507	mg/L	0.10	101	85	115			
Beryllium	0.237	mg/L	0.010	95	85	115			
Cadmium	0.247	mg/L	0.010	99	85	115			
Chromium	0.485	mg/L	0.050	97	85	115			
Copper	0.475	mg/L	0.010	94	85	115			
Lead	0.504	mg/L	0.050	101	85	115			
Manganese	2.48	mg/L	0.010	99	85	115			
Molybdenum	0.515	mg/L	0.10	103	85	115			
Nickel	0.477	mg/L	0.050	95	85	115			
Selenium	0.490	mg/L	0.0010	98	85	115			
Silver	0.0475	mg/L	0.010	95	85	115			
Strontium	0.518	mg/L	0.10	104	85	115			
Thallium	0.514	mg/L	0.10	103	85	115			
Uranium	0.527	mg/L	0.00030	105	85	115			
Zinc	0.474	mg/L	0.010	95	85	115			
Sample ID: C08120017-002AMS3	Sample Matrix Spike		Run: SUB-C112034			12/09/08 22:46			
Antimony	0.551	mg/L	0.050	110	70	130			
Arsenic	0.529	mg/L	0.0010	103	70	130			
Barium	0.682	mg/L	0.10	106	70	130			
Beryllium	0.225	mg/L	0.010	90	70	130			
Cadmium	0.245	mg/L	0.010	98	70	130			
Chromium	0.478	mg/L	0.050	95	70	130			
Copper	0.482	mg/L	0.010	95	70	130			
Lead	0.520	mg/L	0.050	103	70	130			
Manganese	2.81	mg/L	0.010	95	70	130			
Molybdenum	0.794	mg/L	0.10	113	70	130			
Nickel	0.482	mg/L	0.050	96	70	130			
Selenium	0.552	mg/L	0.0010	98	70	130			
Silver	0.0477	mg/L	0.010	95	70	130			
Strontium	0.945	mg/L	0.10	107	70	130			
Thallium	0.521	mg/L	0.10	104	70	130			
Uranium	0.578	mg/L	0.00030	115	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									
Batch: C_20705									
Sample ID: C08120017-002AMS3	Sample Matrix Spike			Run: SUB-C112034			12/09/08 22:46		
Zinc	0.494	mg/L	0.010	93	70	130			
Sample ID: C08120017-002AMSD3									
Batch: C_20705									
Run: SUB-C112034									
12/09/08 22:52									
Antimony	0.535	mg/L	0.050	107	70	130	3	20	
Arsenic	0.515	mg/L	0.0010	100	70	130	2.6	20	
Barium	0.662	mg/L	0.10	102	70	130	3	20	
Beryllium	0.219	mg/L	0.010	87	70	130	3	20	
Cadmium	0.238	mg/L	0.010	95	70	130	3	20	
Chromium	0.462	mg/L	0.050	91	70	130	3.4	20	
Copper	0.465	mg/L	0.010	91	70	130	3.6	20	
Lead	0.505	mg/L	0.050	100	70	130	2.9	20	
Manganese	2.74	mg/L	0.010	93	70	130	2.4	20	
Molybdenum	0.759	mg/L	0.10	106	70	130	4.5	20	
Nickel	0.466	mg/L	0.050	93	70	130	3.4	20	
Selenium	0.535	mg/L	0.0010	95	70	130	3.1	20	
Silver	0.0464	mg/L	0.010	93	70	130	2.8	20	
Strontium	0.913	mg/L	0.10	100	70	130	3.5	20	
Thallium	0.506	mg/L	0.10	101	70	130	2.9	20	
Uranium	0.558	mg/L	0.00030	111	70	130	3.6	20	
Zinc	0.479	mg/L	0.010	90	70	130	3	20	
Method: E200.8									
Batch: C_20766									
Sample ID: MB-20766	Method Blank			Run: SUB-C112108			12/11/08 00:48		
Uranium	8E-05	mg/L	1E-05						
Sample ID: LCS1-20766	Laboratory Control Sample			Run: SUB-C112108			12/11/08 00:55		
Uranium	0.00466	mg/L	0.00030	92	80	120			
Sample ID: R08110211-010I	Sample Matrix Spike			Run: SUB-C112108			12/11/08 02:36		
Uranium	0.0115	mg/L	0.00030	92	70	130			
Sample ID: R08110211-010I	Sample Matrix Spike Duplicate			Run: SUB-C112108			12/11/08 02:42		
Uranium	0.0116	mg/L	0.00030	93	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R111761		
Sample ID: LRB	Method Blank		Run: SUB-C111761			12/03/08 12:32			
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.0005	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C111761			12/03/08 12:39			
Aluminum	0.0461	mg/L	0.0010	92	85	115			
Arsenic	0.0471	mg/L	0.0010	94	85	115			
Barium	0.0462	mg/L	0.0010	92	85	115			
Cadmium	0.0466	mg/L	0.0010	93	85	115			
Chromium	0.0466	mg/L	0.0010	93	85	115			
Copper	0.0475	mg/L	0.0010	95	85	115			
Lead	0.0460	mg/L	0.0010	92	85	115			
Manganese	0.0467	mg/L	0.0010	93	85	115			
Mercury	0.00467	mg/L	0.0010	93	85	115			
Molybdenum	0.0472	mg/L	0.0010	95	85	115			
Nickel	0.0471	mg/L	0.0010	94	85	115			
Thorium 232	0.0455	mg/L	0.0010	91	85	115			
Uranium	0.0459	mg/L	0.00030	92	85	115			
Vanadium	0.0465	mg/L	0.0010	93	85	115			
Zinc	0.0502	mg/L	0.0010	99	85	115			
Sample ID: R08110211-003C	Post Digestion Spike		Run: SUB-C111761			12/03/08 19:53			
Aluminum	0.0493	mg/L	0.10	99	70	130			
Arsenic	0.0515	mg/L	0.0010	100	70	130			
Barium	0.0603	mg/L	0.10	101	70	130			
Cadmium	0.0468	mg/L	0.010	94	70	130			
Chromium	0.0472	mg/L	0.050	94	70	130			
Copper	0.0479	mg/L	0.010	93	70	130			
Lead	0.0508	mg/L	0.050	102	70	130			
Manganese	0.192	mg/L	0.010	93	70	130			
Mercury	0.00508	mg/L	0.0010	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R111761
Sample ID: R08110211-003C	Post Digestion Spike				Run: SUB-C111761				12/03/08 19:53
Molybdenum	0.0516	mg/L	0.10	102	70	130			
Nickel	0.0492	mg/L	0.050	92	70	130			
Thorium 232	0.0529	mg/L	0.0010	106	70	130			
Uranium	0.0531	mg/L	0.00030	105	70	130			
Vanadium	0.0483	mg/L	0.10	96	70	130			
Zinc	0.0489	mg/L	0.010	91	70	130			
Sample ID: R08110211-003C	Post Digestion Spike Duplicate				Run: SUB-C111761				12/03/08 20:00
Aluminum	0.0482	mg/L	0.10	96	70	130	0	20	
Arsenic	0.0519	mg/L	0.0010	101	70	130	0.7	20	
Barium	0.0597	mg/L	0.10	99	70	130	0	20	
Cadmium	0.0473	mg/L	0.010	95	70	130	1.1	20	
Chromium	0.0460	mg/L	0.050	91	70	130	0	20	
Copper	0.0473	mg/L	0.010	92	70	130	1.3	20	
Lead	0.0501	mg/L	0.050	100	70	130	1.2	20	
Manganese	0.188	mg/L	0.010	86	70	130	1.8	20	
Mercury	0.00506	mg/L	0.0010	101	70	130	0.4	20	
Molybdenum	0.0517	mg/L	0.10	102	70	130	0	20	
Nickel	0.0495	mg/L	0.050	92	70	130	0	20	
Thorium 232	0.0529	mg/L	0.0010	106	70	130	0.1	20	
Uranium	0.0531	mg/L	0.00030	105	70	130	0.1	20	
Vanadium	0.0475	mg/L	0.10	95	70	130	0	20	
Zinc	0.0487	mg/L	0.010	91	70	130	0.5	20	
Sample ID: R08110211-013C	Post Digestion Spike				Run: SUB-C111761				12/03/08 21:42
Aluminum	0.0573	mg/L	0.10	115	70	130			
Arsenic	0.0623	mg/L	0.0010	101	70	130			
Barium	0.0620	mg/L	0.10	99	70	130			
Cadmium	0.0469	mg/L	0.010	94	70	130			
Chromium	0.0469	mg/L	0.050	93	70	130			
Copper	0.0479	mg/L	0.010	94	70	130			
Lead	0.0497	mg/L	0.050	99	70	130			
Manganese	0.110	mg/L	0.010	93	70	130			
Mercury	0.00516	mg/L	0.0010	103	70	130			
Molybdenum	0.0512	mg/L	0.10	100	70	130			
Nickel	0.0484	mg/L	0.050	92	70	130			
Thorium 232	0.0516	mg/L	0.0010	103	70	130			
Uranium	0.0538	mg/L	0.00030	102	70	130			
Vanadium	0.0481	mg/L	0.10	96	70	130			
Zinc	0.0484	mg/L	0.010	93	70	130			
Sample ID: R08110211-013C	Post Digestion Spike Duplicate				Run: SUB-C111761				12/03/08 21:49
Aluminum	0.0523	mg/L	0.10	105	70	130	0	20	
Arsenic	0.0623	mg/L	0.0010	101	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R111761		
Sample ID: R08110211-013C	Post Digestion Spike Duplicate			Run: SUB-C111761			12/03/08 21:49		
Barium	0.0622	mg/L	0.10	100	70	130	0	20	
Cadmium	0.0470	mg/L	0.010	94	70	130	0.1	20	
Chromium	0.0472	mg/L	0.050	93	70	130	0	20	
Copper	0.0471	mg/L	0.010	92	70	130	1.8	20	
Lead	0.0501	mg/L	0.050	100	70	130	0.8	20	
Manganese	0.111	mg/L	0.010	94	70	130	0.6	20	
Mercury	0.00521	mg/L	0.0010	104	70	130	0.9	20	
Molybdenum	0.0512	mg/L	0.10	100	70	130	0	20	
Nickel	0.0492	mg/L	0.050	94	70	130	0	20	
Thorium 232	0.0515	mg/L	0.0010	103	70	130	0.2	20	
Uranium	0.0540	mg/L	0.00030	103	70	130	0.3	20	
Vanadium	0.0483	mg/L	0.10	96	70	130	0	20	
Zinc	0.0475	mg/L	0.010	91	70	130	1.8	20	
Sample ID: C08110911-007BMS	Sample Matrix Spike			Run: SUB-C111761			12/04/08 01:06		
Aluminum	0.0966	mg/L	0.10	97	70	130			
Arsenic	0.0954	mg/L	0.0010	94	70	130			
Barium	0.227	mg/L	0.10	93	70	130			
Cadmium	0.0896	mg/L	0.010	90	70	130			
Chromium	0.0862	mg/L	0.050	86	70	130			
Copper	0.0919	mg/L	0.010	88	70	130			
Lead	0.0942	mg/L	0.050	94	70	130			
Manganese	0.114	mg/L	0.010	85	70	130			
Mercury	0.00950	mg/L	0.0010	9	70	130			S
Molybdenum	0.0949	mg/L	0.10	94	70	130			
Nickel	0.0951	mg/L	0.050	89	70	130			
Thorium 232	0.0986	mg/L	0.0010	99	70	130			
Uranium	0.102	mg/L	0.00030	98	70	130			
Vanadium	0.0902	mg/L	0.10	89	70	130			
Zinc	0.0892	mg/L	0.010	86	70	130			
Sample ID: C08110911-007BMSD	Sample Matrix Spike Duplicate			Run: SUB-C111761			12/04/08 01:12		
Aluminum	0.101	mg/L	0.10	101	70	130	4.9	20	
Arsenic	0.0965	mg/L	0.0010	95	70	130	1.1	20	
Barium	0.231	mg/L	0.10	97	70	130	1.6	20	
Cadmium	0.0905	mg/L	0.010	90	70	130	1	20	
Chromium	0.0859	mg/L	0.050	86	70	130	0.2	20	
Copper	0.0931	mg/L	0.010	89	70	130	1.4	20	
Lead	0.0938	mg/L	0.050	94	70	130	0.4	20	
Manganese	0.113	mg/L	0.010	84	70	130	0.4	20	
Mercury	0.00941	mg/L	0.0010	9	70	130	0.9	20	S
Molybdenum	0.0986	mg/L	0.10	98	70	130	0	20	
Nickel	0.0980	mg/L	0.050	92	70	130	2.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 01/29/09

Project: Edgemont

Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R111761
Sample ID: C08110911-007BMSD	Sample Matrix Spike Duplicate								Run: SUB-C111761 12/04/08 01:12
Thorium 232	0.0984	mg/L	0.0010	98	70	130	0.2	20	
Uranium	0.102	mg/L	0.00030	98	70	130	0.2	20	
Vanadium	0.0897	mg/L	0.10	88	70	130	0	20	
Zinc	0.0901	mg/L	0.010	86	70	130	1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R111874
Sample ID: LRB	Method Blank								Run: SUB-C111874 12/04/08 22:10
Antimony	0.0004	mg/L	0.0003						
Arsenic	ND	mg/L	2E-05						
Barium	ND	mg/L	2E-05						
Beryllium	ND	mg/L	3E-05						
Cadmium	1E-05	mg/L	8E-06						
Chromium	ND	mg/L	2E-05						
Copper	2E-05	mg/L	1E-05						
Lead	ND	mg/L	1E-05						
Manganese	ND	mg/L	2E-05						
Molybdenum	3E-05	mg/L	3E-05						
Nickel	ND	mg/L	2E-05						
Selenium	ND	mg/L	4E-05						
Silver	3E-05	mg/L	3E-05						
Strontium	ND	mg/L	2E-05						
Thallium	ND	mg/L	1.0E-05						
Uranium	ND	mg/L	7E-06						
Zinc	0.0005	mg/L	0.0002						
Sample ID: LFB	Laboratory Fortified Blank								Run: SUB-C111874 12/04/08 22:17
Antimony	0.0480	mg/L	0.0010	95	85	115			
Arsenic	0.0496	mg/L	0.0010	99	85	115			
Barium	0.0498	mg/L	0.0010	100	85	115			
Beryllium	0.0502	mg/L	0.0010	100	85	115			
Cadmium	0.0496	mg/L	0.0010	99	85	115			
Chromium	0.0492	mg/L	0.0010	98	85	115			
Copper	0.0497	mg/L	0.0010	99	85	115			
Lead	0.0493	mg/L	0.0010	99	85	115			
Manganese	0.0474	mg/L	0.0010	95	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0496	mg/L	0.0010	99	85	115			
Selenium	0.0508	mg/L	0.0010	102	85	115			
Silver	0.0203	mg/L	0.0010	101	85	115			
Strontium	0.0475	mg/L	0.0010	95	85	115			
Thallium	0.0473	mg/L	0.0010	95	85	115			
Uranium	0.0459	mg/L	0.00030	92	85	115			
Zinc	0.0495	mg/L	0.0010	98	85	115			
Sample ID: C08110862-024BMS4	Post Digestion Spike								Run: SUB-C111874 12/05/08 01:46
Antimony	0.0513	mg/L	0.050	103	70	130			
Arsenic	0.0508	mg/L	0.0010	101	70	130			
Barium	0.107	mg/L	0.10	100	70	130			
Beryllium	0.0476	mg/L	0.010	95	70	130			
Cadmium	0.0494	mg/L	0.010	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R111874		
Sample ID: C08110862-024BMS4		Post Digestion Spike		Run: SUB-C111874			12/05/08 01:46		
Chromium	0.0489	mg/L	0.050	98	70	130			
Copper	0.0484	mg/L	0.010	95	70	130			
Lead	0.0497	mg/L	0.050	99	70	130			
Manganese	0.0547	mg/L	0.010	96	70	130			
Molybdenum	0.0627	mg/L	0.10	99	70	130			
Nickel	0.0483	mg/L	0.050	95	70	130			
Selenium	0.0519	mg/L	0.0010	103	70	130			
Silver	0.0196	mg/L	0.010	98	70	130			
Strontium	0.343	mg/L	0.10		70	130			A
Thallium	0.0477	mg/L	0.10	95	70	130			
Uranium	0.266	mg/L	0.00030		70	130			A
Zinc	0.0546	mg/L	0.010	101	70	130			
Sample ID: C08110862-024BMSD4		Post Digestion Spike Duplicate		Run: SUB-C111874			12/05/08 01:53		
Antimony	0.0518	mg/L	0.050	104	70	130	1	20	
Arsenic	0.0507	mg/L	0.0010	101	70	130	0.4	20	
Barium	0.107	mg/L	0.10	100	70	130	0.1	20	
Beryllium	0.0474	mg/L	0.010	95	70	130	0.6	20	
Cadmium	0.0493	mg/L	0.010	98	70	130	0.2	20	
Chromium	0.0489	mg/L	0.050	97	70	130	0	20	
Copper	0.0484	mg/L	0.010	95	70	130	0	20	
Lead	0.0496	mg/L	0.050	99	70	130	0	20	
Manganese	0.0541	mg/L	0.010	94	70	130	1.1	20	
Molybdenum	0.0624	mg/L	0.10	98	70	130	0	20	
Nickel	0.0479	mg/L	0.050	95	70	130	0	20	
Selenium	0.0516	mg/L	0.0010	103	70	130	0.6	20	
Silver	0.0197	mg/L	0.010	99	70	130	0.6	20	
Strontium	0.345	mg/L	0.10		70	130	0.6	20	A
Thallium	0.0475	mg/L	0.10	95	70	130	0	20	
Uranium	0.262	mg/L	0.00030		70	130	1.2	20	A
Zinc	0.0535	mg/L	0.010	99	70	130	1.9	20	
Sample ID: R08110211-008C		Post Digestion Spike		Run: SUB-C111874			12/05/08 04:10		
Antimony	0.0467	mg/L	0.050	93	70	130			
Arsenic	0.0522	mg/L	0.0010	104	70	130			
Barium	0.0604	mg/L	0.10	102	70	130			
Beryllium	0.0435	mg/L	0.010	87	70	130			
Cadmium	0.0473	mg/L	0.010	95	70	130			
Chromium	0.0501	mg/L	0.050	100	70	130			
Copper	0.0474	mg/L	0.010	95	70	130			
Lead	0.0509	mg/L	0.050	102	70	130			
Manganese	2.44	mg/L	0.010		70	130			A
Molybdenum	0.0507	mg/L	0.10	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R111874		
Sample ID: R08110211-008C	Post Digestion Spike			Run: SUB-C111874			12/05/08 04:10		
Nickel	0.0496	mg/L	0.050	96	70	130			
Selenium	0.0528	mg/L	0.0010	105	70	130			
Silver	0.0111	mg/L	0.010	56	70	130			S
Strontium	4.77	mg/L	0.10		70	130			A
Thallium	0.0492	mg/L	0.10	98	70	130			
Uranium	0.154	mg/L	0.00030	98	70	130			
Zinc	0.0495	mg/L	0.010	93	70	130			
Sample ID: R08110211-008C	Post Digestion Spike Duplicate			Run: SUB-C111874			12/05/08 04:16		
Antimony	0.0486	mg/L	0.050	97	70	130	0	20	
Arsenic	0.0521	mg/L	0.0010	104	70	130	0.2	20	
Barium	0.0611	mg/L	0.10	104	70	130	0	20	
Beryllium	0.0439	mg/L	0.010	88	70	130	0.8	20	
Cadmium	0.0476	mg/L	0.010	95	70	130	0.7	20	
Chromium	0.0505	mg/L	0.050	101	70	130	0.8	20	
Copper	0.0472	mg/L	0.010	94	70	130	0.4	20	
Lead	0.0512	mg/L	0.050	102	70	130	0.6	20	
Manganese	2.44	mg/L	0.010		70	130	0.1	20	A
Molybdenum	0.0518	mg/L	0.10	103	70	130	0	20	
Nickel	0.0497	mg/L	0.050	96	70	130	0	20	
Selenium	0.0526	mg/L	0.0010	105	70	130	0.5	20	
Silver	0.0131	mg/L	0.010	66	70	130	16	20	S
Strontium	4.82	mg/L	0.10		70	130	1	20	A
Thallium	0.0494	mg/L	0.10	99	70	130	0	20	
Uranium	0.155	mg/L	0.00030	101	70	130	0.9	20	
Zinc	0.0491	mg/L	0.010	92	70	130	0.9	20	
Sample ID: R08110211-007D	Post Digestion Spike			Run: SUB-C111874			12/05/08 07:40		
Antimony	0.0459	mg/L	0.050	92	70	130			
Arsenic	0.0566	mg/L	0.0010	102	70	130			
Barium	0.0638	mg/L	0.10	101	70	130			
Beryllium	0.0428	mg/L	0.010	86	70	130			
Cadmium	0.0465	mg/L	0.010	93	70	130			
Chromium	0.0495	mg/L	0.050	98	70	130			
Copper	0.0471	mg/L	0.010	94	70	130			
Lead	0.0509	mg/L	0.050	102	70	130			
Manganese	1.05	mg/L	0.010		70	130			A
Molybdenum	0.0542	mg/L	0.10	100	70	130			
Nickel	0.0492	mg/L	0.050	96	70	130			
Selenium	0.0524	mg/L	0.0010	105	70	130			
Silver	0.0141	mg/L	0.010	70	70	130			
Strontium	5.73	mg/L	0.10		70	130			A
Thallium	0.0493	mg/L	0.10	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R111874		
Sample ID: R08110211-007D	Post Digestion Spike				Run: SUB-C111874		12/05/08 07:40		
Uranium	0.0546	mg/L	0.00030	101	70	130			
Zinc	0.0466	mg/L	0.010	88	70	130			
Sample ID: R08110211-007D	Post Digestion Spike Duplicate				Run: SUB-C111874		12/05/08 07:46		
Antimony	0.0483	mg/L	0.050	97	70	130	0	20	
Arsenic	0.0572	mg/L	0.0010	103	70	130	1	20	
Barium	0.0641	mg/L	0.10	101	70	130	0	20	
Beryllium	0.0421	mg/L	0.010	84	70	130	1.5	20	
Cadmium	0.0471	mg/L	0.010	94	70	130	1.4	20	
Chromium	0.0502	mg/L	0.050	100	70	130	1.4	20	
Copper	0.0475	mg/L	0.010	95	70	130	0.9	20	
Lead	0.0510	mg/L	0.050	102	70	130	0.1	20	
Manganese	1.04	mg/L	0.010		70	130	1.4	20	A
Molybdenum	0.0548	mg/L	0.10	101	70	130	0	20	
Nickel	0.0496	mg/L	0.050	97	70	130	0	20	
Selenium	0.0515	mg/L	0.0010	103	70	130	1.7	20	
Silver	0.0147	mg/L	0.010	73	70	130	4.1	20	
Strontium	5.71	mg/L	0.10		70	130	0.4	20	A
Thallium	0.0495	mg/L	0.10	99	70	130	0	20	
Uranium	0.0577	mg/L	0.00030	107	70	130	5.5	20	
Zinc	0.0467	mg/L	0.010	89	70	130	0.2	20	

Method: E200.8							Batch: C_R111977		
Sample ID: LRB	Method Blank				Run: SUB-C111977		12/08/08 12:48		
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C111977		12/08/08 12:55		
Silver	0.0225	mg/L	0.0010	112	85	115			
Sample ID: R08110211-012D	Post Digestion Spike				Run: SUB-C111977		12/08/08 16:31		
Silver	0.0180	mg/L	0.010	90	70	130			
Sample ID: R08110211-012D	Post Digestion Spike Duplicate				Run: SUB-C111977		12/08/08 16:38		
Silver	0.0199	mg/L	0.010	99	70	130	9.9	20	
Sample ID: R08110211-014C	Post Digestion Spike				Run: SUB-C111977		12/08/08 18:40		
Silver	0.0202	mg/L	0.010	101	70	130			
Sample ID: R08110211-014C	Post Digestion Spike Duplicate				Run: SUB-C111977		12/08/08 18:47		
Silver	0.0198	mg/L	0.010	99	70	130	2.1	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_35991		
Sample ID: MB-35991	Method Blank								Run: SUB-B121239 11/24/08 11:16
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-35991	Laboratory Fortified Blank								Run: SUB-B121239 11/24/08 11:18
Mercury	0.0020	mg/L	0.0010	98	85	115			
Sample ID: R08110200-007E	Sample Matrix Spike								Run: SUB-B121239 11/24/08 11:44
Mercury	0.0019	mg/L	0.0010	96	70	130			
Sample ID: R08110200-007E	Sample Matrix Spike Duplicate								Run: SUB-B121239 11/24/08 11:46
Mercury	0.0020	mg/L	0.0010	98	70	130	0	30	
Method: E245.1							Batch: B_35997		
Sample ID: MB-35997	Method Blank								Run: SUB-B121239 11/24/08 08:35
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-35997	Laboratory Fortified Blank								Run: SUB-B121239 11/24/08 08:37
Mercury	0.0020	mg/L	0.0010	99	85	115			
Sample ID: R08110211-006J	Sample Matrix Spike								Run: SUB-B121239 11/24/08 08:52
Mercury	0.0020	mg/L	0.0010	100	70	130			
Sample ID: R08110211-006J	Sample Matrix Spike Duplicate								Run: SUB-B121239 11/24/08 08:54
Mercury	0.0021	mg/L	0.0010	104	70	130	0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R38508		
Sample ID: LFB0811202111-3	Laboratory Fortified Blank			Run: DIONEX_081120A			11/20/08 18:03		
Chloride	4.88	mg/L	0.50	98	90	110			
Fluoride	2.06	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.35	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N	2.53	mg/L	0.10	101	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0811202111-4	Laboratory Fortified Blank			Run: DIONEX_081120A			11/20/08 18:19		
Chloride	4.73	mg/L	0.50	95	90	110			
Fluoride	1.99	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	90	110			
Sulfate	13.7	mg/L	1.0	91	90	110			
Sample ID: R08110211-001AMS	Sample Matrix Spike			Run: DIONEX_081120A			11/20/08 18:52		
Chloride	4.87	mg/L	0.50	97	80	120			
Fluoride	1.99	mg/L	0.10	100	80	120			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	80	120			
Nitrogen, Nitrite as N	2.52	mg/L	0.10	101	80	120			
Sulfate	14.0	mg/L	1.0	93	80	120			
Sample ID: R08110211-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081120A			11/20/08 19:08		
Chloride	4.75	mg/L	0.50	95	80	120	2.5	10	
Fluoride	1.93	mg/L	0.10	97	80	120	3.1	10	
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	80	120	3	10	
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	80	120	2.8	10	
Sulfate	13.7	mg/L	1.0	91	80	120	2.3	10	
Sample ID: R08110211-009AMS	Sample Matrix Spike			Run: DIONEX_081120A			11/20/08 22:09		
Chloride	16.1	mg/L	0.50	71	80	120			S
Fluoride	2.13	mg/L	0.10	86	80	120			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	80	120			
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	80	120			
Sulfate	572	mg/L	1.0		80	120			A
Sample ID: R08110211-009AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081120A			11/20/08 22:25		
Chloride	16.0	mg/L	0.50	69	80	120	0.6	10	S
Fluoride	2.03	mg/L	0.10	81	80	120	4.8	10	
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	80	120	2.6	10	
Nitrogen, Nitrite as N	2.39	mg/L	0.10	96	80	120	2.5	10	
Sulfate	573	mg/L	1.0		80	120	0.2	10	A
Sample ID: R08110227-001AMS	Sample Matrix Spike			Run: DIONEX_081120A			11/21/08 01:26		
Chloride	32.3	mg/L	0.50		80	120			A
Fluoride	5.05	mg/L	0.10	83	80	120			

Qualifiers:

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A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R38508		
Sample ID: R08110227-001AMS	Sample Matrix Spike			Run: DIONEX_081120A			11/21/08 01:26		
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	80	120			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	80	120			
Sulfate	323	mg/L	1.0		80	120			A
Sample ID: R08110227-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081120A			11/21/08 01:42		
Chloride	32.3	mg/L	0.50		80	120	0.1	10	A
Fluoride	4.98	mg/L	0.10	79	80	120	1.4	10	S
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	80	120	1.7	10	
Nitrogen, Nitrite as N	2.34	mg/L	0.10	94	80	120	2.5	10	
Sulfate	323	mg/L	1.0		80	120	0	10	A
Sample ID: R08110211-003AMS	Sample Matrix Spike			Run: DIONEX_081120A			11/21/08 04:43		
Chloride	252	mg/L	5.4	94	80	120			
Fluoride	104	mg/L	0.56	95	80	120			
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120			
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120			
Sulfate	1150	mg/L	3.4	88	80	120			
Sample ID: R08110211-003AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081120A			11/21/08 04:59		
Chloride	248	mg/L	5.4	92	80	120	1.9	10	
Fluoride	102	mg/L	0.56	93	80	120	1.9	10	
Nitrogen, Nitrate as N	113	mg/L	1.3	90	80	120	2	10	
Nitrogen, Nitrite as N	123	mg/L	2.9	99	80	120	2	10	
Sulfate	1130	mg/L	3.4	86	80	120	1.4	10	
Sample ID: R08110211-011AMS	Sample Matrix Spike			Run: DIONEX_081120A			11/21/08 08:00		
Chloride	248	mg/L	5.4	93	80	120			
Fluoride	103	mg/L	0.56	96	80	120			
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sulfate	1020	mg/L	3.4	86	80	120			
Sample ID: R08110211-011AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081120A			11/21/08 08:16		
Chloride	249	mg/L	5.4	94	80	120	0.2	10	
Fluoride	104	mg/L	0.56	97	80	120	0.9	10	
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120	0.2	10	
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120	0.2	10	
Sulfate	1030	mg/L	3.4	86	80	120	0.4	10	

Qualifiers:

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A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0581		
Sample ID: MB-GrAB-0581	Method Blank				Run: SUB-C112738				12/24/08 01:11
Gross Alpha	-0.6	pCi/L							U
Gross Beta	-2	pCi/L							U
Sample ID: UNAT-GrAB-0581	Laboratory Control Sample				Run: SUB-C112738				12/24/08 01:11
Gross Alpha	140	pCi/L	99	70	130				
Sample ID: Cs137-GrAB-0581	Laboratory Control Sample				Run: SUB-C112738				12/24/08 01:11
Gross Beta	83	pCi/L	91	70	130				
Sample ID: C08120016-001AMS	Sample Matrix Spike				Run: SUB-C112738				12/24/08 01:11
Gross Alpha	150	pCi/L	112	70	130				
Sample ID: C08120016-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C112738				12/24/08 01:11
Gross Alpha	160	pCi/L	119	70	130	6.5		16	
Sample ID: C08120016-001AMS	Sample Matrix Spike				Run: SUB-C112738				12/24/08 01:10
Gross Beta	88	pCi/L	96	70	130				
Sample ID: C08120016-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C112738				12/24/08 01:10
Gross Beta	97	pCi/L	106	70	130	10		16	
Method: E901.1							Batch: C_R112023		
Sample ID: LCS-R112023	Laboratory Control Sample				Run: SUB-C112023				12/03/08 15:07
Americium 241	660	pCi/L	20	82	70	130			
Cesium 137	1300	pCi/L	20	93	70	130			
Potassium 40	6700	pCi/L	20	101	70	130			
Sample ID: MB-R112023	Method Blank				Run: SUB-C112023				12/03/08 15:07
Bismuth 214	ND	pCi/L							U
Gross Gamma	ND	pCi/L							U
Sample ID: R08110211-014H	Sample Duplicate				Run: SUB-C112023				12/03/08 15:07
Bismuth 214	80	pCi/L	20				43	79	
Lead 214	35	pCi/L	20				41	107	
Potassium 40	980	pCi/L	20				16	47	
Gross Gamma	1100	pCi/L	20				19	51	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/09
Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: C_20766									
Sample ID: R08110211-004I Radium 226	Sample Duplicate 0.0035 pCi/L				70	130	190	403.7	U
Sample ID: C08110847-001FMS Radium 226	Sample Matrix Spike 19 pCi/L			98	70	130			12/18/08 17:20
Sample ID: LCS-20766 Radium 226	Laboratory Control Sample 14 pCi/L			101	70	130			12/19/08 03:05
Sample ID: MB-20766 Radium 226	Method Blank -2 pCi/L								12/19/08 03:05 U
Method: E903.0 Batch: C_RA226-3296									
Sample ID: R08110211-010H Radium 226	Sample Matrix Spike 16 pCi/L			88	70	130			12/17/08 00:57
Sample ID: R08110211-010H Radium 226	Sample Matrix Spike Duplicate 17 pCi/L			95	70	130	7.3	23	12/17/08 00:57
Sample ID: MB-RA226-3296 Radium 226	Method Blank -0.03 pCi/L								12/17/08 02:34 U
Sample ID: LCS-RA226-3296 Radium 226	Laboratory Control Sample 7.8 pCi/L			98	70	130			12/17/08 02:34
Method: E907.0 Batch: C_20766									
Sample ID: R08110211-012I Thorium 230	Sample Matrix Spike 12.1 pCi/L		0.20	105	70	130			12/11/08 15:00
Sample ID: R08110211-012I Thorium 230	Sample Matrix Spike Duplicate 9.62 pCi/L		0.20	83	70	130	23	30	12/11/08 15:00
Sample ID: LCS-20766 Thorium 230	Laboratory Control Sample 29.9 pCi/L		0.20	130	70	130			12/11/08 15:00
Sample ID: MB-20766 Thorium 230	Method Blank 0.10 pCi/L								12/11/08 15:00 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 01/29/09

Project: Edgemont

Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0708		
Sample ID: LCS-RA-TH-ISO-0708	Laboratory Control Sample				Run: SUB-C112347				12/12/08 16:26
Thorium 230	5.60	pCi/L	0.20	92	70	130			
Sample ID: R08110211-007H	Sample Matrix Spike				Run: SUB-C112347				12/12/08 16:26
Thorium 230	15.0	pCi/L	0.20	96	70	130			
Sample ID: R08110211-007H	Sample Matrix Spike Duplicate				Run: SUB-C112347				12/12/08 16:26
Thorium 230	16.6	pCi/L	0.20	106	70	130	10	41.6	
Sample ID: MB-RA-TH-ISO-0708	Method Blank				Run: SUB-C112347				12/15/08 08:55
Thorium 230	0.04	pCi/L							U
Method: E909.0M							Batch: C_20766		
Sample ID: R08110211-007I	Sample Matrix Spike				Run: SUB-C112810				12/18/08 07:13
Lead 210	1100	pCi/L		92	70	130			
Sample ID: R08110211-007I	Sample Matrix Spike Duplicate				Run: SUB-C112810				12/18/08 07:13
Lead 210	1100	pCi/L		96	70	130	4.5	30	
Sample ID: MB-R112810	Method Blank				Run: SUB-C112810				12/18/08 07:13
Lead 210	0.9	pCi/L							U
Sample ID: LCS-R112810	Laboratory Control Sample				Run: SUB-C112810				12/18/08 07:13
Lead 210	100	pCi/L		90	70	130			
Method: E909.0M							Batch: C_R112583		
Sample ID: R08110211-012H	Sample Matrix Spike				Run: SUB-C112583				12/11/08 10:00
Lead 210	140	pCi/L		98	70	130			
Sample ID: R08110211-014H	Sample Duplicate				Run: SUB-C112583				12/11/08 10:00
Lead 210	-1.7	pCi/L					38	30	UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R112583	Method Blank				Run: SUB-C112583				12/11/08 10:00
Lead 210	-5	pCi/L							U
Sample ID: LCS-R112583	Laboratory Control Sample				Run: SUB-C112583				12/11/08 10:00
Lead 210	120	pCi/L		108	70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/29/09
 Work Order: R08110211

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_20766		
Sample ID: C08110848-001FMS	Sample Matrix Spike				Run: SUB-C112928		12/30/08 11:30		
Polonium 210	42	pCi/L	1.0	110	70	130			
Sample ID: C08110848-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C112928		12/30/08 11:30		
Polonium 210	47	pCi/L	1.0	114	70	130	12	56.1	
Sample ID: LCS-20766	Laboratory Control Sample				Run: SUB-C112928		12/30/08 11:30		
Polonium 210	15	pCi/L	1.0	95	70	130			
Sample ID: MB-20766	Method Blank				Run: SUB-C112928		12/30/08 11:30		
Polonium 210	-0.04	pCi/L							U
Method: RMO-3008							Batch: C_PO210-0166		
Sample ID: R08110211-014K	Sample Matrix Spike				Run: SUB-C112288		12/11/08 10:19		
Polonium 210	45	pCi/L	1.0	105	70	130			
Sample ID: R08110211-014K	Sample Matrix Spike Duplicate				Run: SUB-C112288		12/11/08 10:19		
Polonium 210	43	pCi/L	1.0	101	70	130	4.6	54.4	
Sample ID: LCS-PO210-0166	Laboratory Control Sample				Run: SUB-C112288		12/12/08 08:48		
Polonium 210	19	pCi/L	1.0	111	70	130			
Sample ID: MB-PO210-0166	Method Blank				Run: SUB-C112288		12/12/08 08:48		
Polonium 210	-0.03	pCi/L							U
Method: SW7470A							Analytical Run: SUB-B121239		
Sample ID: QCS	Initial Calibration Verification Standard						11/24/08 08:05		
Mercury	0.0019	mg/L	0.0010	93	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Scott Env, **Project Name, PWS, Permit, Etc.:** PowerTech DB

Report Mail Address: RESPEC, **Contact Name:** Allen Scott

Invoice Address: RESPEC, **Phone/Fax:** Allen Scott

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA
 GSA EDD/EDT (Electronic Data)
 POTW/MWWTP **Format:** _____
 State: _____ LEVEL IV
 Other: _____ NELAC

Sample Origin: _____ **EPA/State Compliance:** Yes No

State: _____ **Sampler: (Please Print):** Allen Scott

Email: _____ **Quote/Bottle Order:** _____

Invoice Contact & Phone: _____ **Purchase Order:** _____

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED						Normal Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Comments:	Shipped by: Cooler ID(s):	Receipt Temp 4.8 °C	On Ice: Yes <input type="checkbox"/> No <input type="checkbox"/>	Custody Seal Y N	Intact Y N	Signature Match Y N
				Number of Containers	Sample Type: A W S V B O	Vegetation	Bioassay	Other	SEE ATTACHED									
1 Dew Burd BL401	11-18	9:45	W								As per Quote							
2 GW 696	11-18	9:45	W															
3 GW 694	11-18	9:00	W															
4 GW 688	11-18	10:00	W															
5 GW 680	11-18	10:25	W															
6 GW 694	11-18	9:05	W															
7 GW 3026	11-18	11:19	W															
8 GW 698	11-18	12:00	W															
9 GW 695	11-18	13:25	W															
10 GW 697	11-18	13:35	W															

Signature: *Allen Scott* **Date/Time:** 11-19-08 10:26

Received by (print): _____ **Date/Time:** _____

Signature: *Steve Fairland* **Date/Time:** 11-19-08 10:35

Received by (print): _____ **Date/Time:** _____

Signature: _____ **Date/Time:** _____

Custody Record MUST be Signed

Sample Disposal: _____ **Return to Client:** _____ **Lab Disposal:** _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



Chain of Custody and Analytical Request Record

Page _____ of _____

PLEASE PRINT- Provide as much information as possible.
Project Name, PWS, Permit, Etc.

Company Name: Scott Env. EPA/State Compliance: Yes No

Report Mail Address: RESPEC State: _____ Sample Origin: _____
Phone/Fax: _____ Email: _____

Invoice Address: RESPEC Purchase Order: _____
Contact Name: Allen Scott Quoter/Bottle Order: Allen Scott

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA EDD/EDT (Electronic Data)

GSA POTW/WWTP State: _____ Other: _____

Format: LEVEL IV NELAC

Number of Containers	Sample Type: A W S V B O	Vegetation	Air	Water	Soils/Solids	Other	ANALYSIS REQUESTED		SEE ATTACHED	Normal Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Comments:	Shipped by:	Cooler ID(ies):
							As Per Quote							
1	GW	689	1178	1178	14:02	W								
2	GW	681	1178	13:05	W									
3	GW	615	1178	15:00	W									
4	GW	622	1178	14:30	W									
5														
6														
7														
8														
9														
10														

Custody Record MUST be Signed

Requested by (print): Allen Scott Date/Time: 11-19-08 10:36 Signature: [Signature]

Received by (print): _____ Date/Time: _____ Signature: _____

Sample Disposal: _____ Return to Client: _____ Lab Disposal: _____

Received by Laboratory: Steve Forland 11-19-08 10:36 Signature: [Signature]

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

January 27, 2009

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08120255 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 13 samples for RESPEC Inc on 12/18/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08120255-001	DewBurd BLK01	12/17/08 10:00	12/18/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

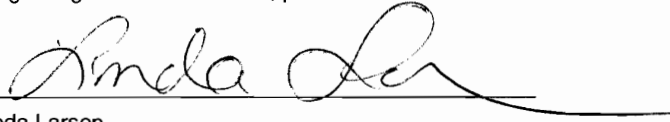


ANALYTICAL SUMMARY REPORT

R08120255-002 DewBurd GW681	12/17/08 10:48 12/18/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R08120255-003 DewBurd GW689	12/17/08 11:02 12/18/08	Aqueous	Same As Above
R08120255-004 DewBurd GW3026	12/17/08 12:46 12/18/08	Aqueous	Same As Above
R08120255-005 DewBurd GW698	12/17/08 13:00 12/18/08	Aqueous	Same As Above
R08120255-006 DewBurd GW698	12/17/08 13:15 12/18/08	Aqueous	Same As Above
R08120255-007 DewBurd GW680	12/17/08 13:50 12/18/08	Aqueous	Same As Above
R08120255-008 DewBurd GW622	12/17/08 14:20 12/18/08	Aqueous	Same As Above
R08120255-009 DewBurd GW697	12/17/08 14:45 12/18/08	Aqueous	Same As Above
R08120255-010 DewBurd GW695	12/17/08 15:10 12/18/08	Aqueous	Same As Above
R08120255-011 DewBurd GW694	12/17/08 15:45 12/18/08	Aqueous	Same As Above
R08120255-012 DewBurd GW696	12/17/08 16:05 12/18/08	Aqueous	Same As Above
R08120255-013 DewBurd GW615	12/17/08 11:27 12/18/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-001
Client Sample ID: DewBurd BLK01

Report Date: 01/27/09
Collection Date: 12/17/08 10:00
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	12/23/08 10:04/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:04/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	12/23/08 10:04/mb
Calcium	ND	mg/L		0.5		2	E200.7	01/05/09 12:39/eli-c
Chloride	ND	mg/L		1		1	E300.0	12/18/08 22:01/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	12/18/08 22:01/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	01/05/09 12:39/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:48/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/18/08 22:01/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/18/08 22:01/jmh
Potassium	ND	mg/L		0.5		2	E200.7	01/05/09 12:39/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	01/05/09 12:39/eli-c
Sulfate	ND	mg/L		1		1	E300.0	12/18/08 22:01/jmh
Silica	ND	mg/L		0.2		2	E200.7	01/05/09 12:39/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	12/19/08 09:02/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B	12/23/08 14:30/jmh
pH	5.67	s.u.		0.01		1	A4500-H B	12/19/08 10:18/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	12	mg/L		5		1	A2540 C	12/22/08 12:05/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 18:04/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 18:04/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 18:04/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 12:39/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 18:04/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 18:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 18:04/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 12:39/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 18:04/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	12/26/08 18:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 18:04/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 18:04/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 18:04/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:38/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 18:04/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-001
Client Sample ID: DewBurd BLK01

Report Date: 01/27/09
Collection Date: 12/17/08 10:00
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Thorium 232	ND	mg/L		0.005		1	E200.8 12/26/08 18:04/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 12/26/08 18:04/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8 12/26/08 18:04/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 12/26/08 18:04/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L	D	0.0009		1	E200.8 01/01/09 21:29/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 01/08/09 15:05/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	0.5	pCi/L	U			1	E900.0 01/14/09 01:14/eli-c
Gross Alpha precision (±)	0.5	pCi/L				1	E900.0 01/14/09 01:14/eli-c
Gross Alpha MDC	0.8	pCi/L				1	E900.0 01/14/09 01:14/eli-c
Gross Beta	0.3	pCi/L	U			1	E900.0 01/14/09 01:14/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0 01/14/09 01:14/eli-c
Gross Beta MDC	2.5	pCi/L				1	E900.0 01/14/09 01:14/eli-c
Lead 210	2.2	pCi/L	U			1	E909.0M 12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M 12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M 12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008 01/09/09 11:36/eli-c
Polonium 210 precision (±)	0.18	pCi/L				1	RMO-3008 01/09/09 11:36/eli-c
Radium 226	-0.09	pCi/L	U			1	E903.0 01/05/09 12:37/eli-c
Radium 226 precision (±)	0.08	pCi/L				1	E903.0 01/05/09 12:37/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0 01/05/09 12:37/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 01/08/09 08:39/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1 12/29/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 12/29/08 12:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	0.8	pCi/L	U			1	E909.0M 01/06/09 10:06/eli-c
Lead 210 precision (±)	6.2	pCi/L				1	E909.0M 01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M 01/06/09 10:06/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008 01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.32	pCi/L				1	RMO-3008 01/15/09 14:33/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-001
 Client Sample ID: DewBurd BLK01

Report Date: 01/27/09
 Collection Date: 12/17/08 10:00
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226	-0.4	pCi/L	U			1 E903.0	01/21/09 21:42/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	01/21/09 21:42/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	01/21/09 21:42/eli-c
Thorium 230	-0.2	pCi/L	U	0.2		1 E907.0	01/07/09 09:04/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	01/07/09 09:04/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - TOTAL							
Radon 222	121	pCi/L		100		1 D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	50.1	pCi/L				1 D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	12/30/08 01:53/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	12/30/08 01:53/eli-c
Barium	ND	mg/L		0.1		1 E200.8	12/30/08 01:53/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	01/01/09 20:56/eli-c
Boron	ND	mg/L		0.1		2 E200.7	01/05/09 17:07/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	12/30/08 01:53/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	12/30/08 01:53/eli-c
Copper	ND	mg/L		0.01		1 E200.8	12/30/08 01:53/eli-c
Iron	0.04	mg/L		0.03		2 E200.7	01/05/09 17:07/eli-c
Lead	ND	mg/L		0.001		1 E200.8	12/30/08 01:53/eli-c
Manganese	ND	mg/L		0.01		1 E200.8	12/30/08 01:53/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	12/26/08 15:04/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	01/01/09 20:56/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	12/30/08 01:53/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	12/30/08 01:53/eli-c
Silver	ND	mg/L		0.005		1 E200.8	01/02/09 19:32/eli-c
Strontium	ND	mg/L		0.1		1 E200.8	12/30/08 01:53/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	12/30/08 01:53/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	12/30/08 01:53/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	01/12/09 16:49/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-002
 Client Sample ID: DewBurd GW681

Report Date: 01/27/09
 Collection Date: 12/17/08 10:48
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	170	mg/L		5		1	A2320 B	12/23/08 10:13/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:13/mb
Bicarbonate as HCO3	207	mg/L		5		1	A2320 B	12/23/08 10:13/mb
Calcium	62.9	mg/L		0.5		2	E200.7	01/05/09 12:43/eli-c
Chloride	15	mg/L		1		1	E300.0	12/18/08 22:34/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/18/08 22:34/jmh
Magnesium	23.9	mg/L		0.5		2	E200.7	01/05/09 12:43/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:52/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/18/08 22:34/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/18/08 22:34/jmh
Potassium	9.7	mg/L		0.5		2	E200.7	01/05/09 12:43/eli-c
Sodium	215	mg/L	D	2		2	E200.7	01/05/09 12:43/eli-c
Sulfate	453	mg/L	D	3		50	E300.0	12/18/08 22:18/jmh
Silica	9.3	mg/L		0.2		2	E200.7	01/05/09 12:43/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1260	umhos/cm		5.0		1	A2510 B	12/19/08 09:04/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.82	s.u.		0.01		1	A4500-H B	12/19/08 10:22/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	12/22/08 12:08/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 18:10/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/26/08 18:10/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 18:10/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 12:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 18:10/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 18:10/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 18:10/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 12:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 18:10/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	12/26/08 18:10/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 18:10/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 18:10/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 18:10/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:44/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 18:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 18:10/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-002
Client Sample ID: DewBurd GW681

Report Date: 01/27/09
Collection Date: 12/17/08 10:48
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0083	mg/L		0.0003		1	E200.8	12/26/08 18:10/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 18:10/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 18:10/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 21:38/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:12/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1560	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Alpha precision (±)	26.2	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Alpha MDC	3.3	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta	526	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta precision (±)	8.7	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta MDC	5.3	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Lead 210	10.7	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	4.8	pCi/L		1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	291	pCi/L				1	E903.0	01/05/09 12:37/eli-ca
Radium 226 precision (±)	2.9	pCi/L				1	E903.0	01/05/09 12:37/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 12:37/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	01/08/09 08:39/eli-c
Gross Gamma	320	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	53	pCi/L				1	E901.1	12/29/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	24.2	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.6	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	9.2	pCi/L		1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	2.4	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	1.5	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	01/21/09 21:42/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-002
Client Sample ID: DewBurd GW681

Report Date: 01/27/09
Collection Date: 12/17/08 10:48
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.5	pCi/L					1	E903.0	01/21/09 21:42/eli-c
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	01/07/09 09:04/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	01/07/09 09:04/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	2200	pCi/L		100			1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	73.0	pCi/L					1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/30/08 02:00/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	12/30/08 02:00/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/30/08 02:00/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/01/09 21:02/eli-c
Boron	ND	mg/L		0.1			2	E200.7	01/05/09 17:11/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/30/08 02:00/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/30/08 02:00/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/30/08 02:00/eli-c
Iron	0.09	mg/L		0.03			2	E200.7	01/05/09 17:11/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/30/08 02:00/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	12/30/08 02:00/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	12/26/08 15:07/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	01/01/09 21:02/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/30/08 02:00/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/30/08 02:00/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/02/09 19:38/eli-c
Strontium	1.1	mg/L		0.1			1	E200.8	12/30/08 02:00/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/30/08 02:00/eli-c
Uranium	0.0077	mg/L		0.0003			1	E200.8	12/30/08 02:00/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/12/09 16:55/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.22	%					1	A1030 E	01/23/09 00:00/jmh
Anions	13.3	meq/L					1	A1030 E	01/23/09 00:00/jmh
Cations	14.7	meq/L					1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	907	mg/L					1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.990						1	A1030 E	01/23/09 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 6 of 39
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-003
Client Sample ID: DewBurd GW689

Report Date: 01/27/09
Collection Date: 12/17/08 11:02
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	158	mg/L		5		1	A2320 B	12/23/08 10:14/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:14/mb
Bicarbonate as HCO3	193	mg/L		5		1	A2320 B	12/23/08 10:14/mb
Calcium	54.4	mg/L		0.5		2	E200.7	01/05/09 12:47/eli-c
Chloride	6	mg/L		1		1	E300.0	12/18/08 23:40/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	12/18/08 23:40/jmh
Magnesium	18.1	mg/L		0.5		2	E200.7	01/05/09 12:47/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:55/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/18/08 23:40/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/18/08 23:40/jmh
Potassium	8.5	mg/L		0.5		2	E200.7	01/05/09 12:47/eli-c
Sodium	197	mg/L	D	2		2	E200.7	01/05/09 12:47/eli-c
Sulfate	408	mg/L	D	3		50	E300.0	12/18/08 22:51/jmh
Silica	10.3	mg/L		0.2		2	E200.7	01/05/09 12:47/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1100	umhos/cm		5.0		1	A2510 B	12/19/08 09:06/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.90	s.u.		0.01		1	A4500-H B	12/19/08 10:23/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	750	mg/L		5		1	A2540 C	12/22/08 12:08/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 18:44/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/26/08 18:44/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 18:44/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	01/05/09 12:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 18:44/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 18:44/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 18:44/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 12:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 18:44/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/26/08 18:44/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 18:44/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 18:44/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 18:44/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 18:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 18:44/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-003
Client Sample ID: DewBurd GW689

Report Date: 01/27/09
Collection Date: 12/17/08 11:02
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0050	mg/L		0.0003		1	E200.8	12/26/08 18:44/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 18:44/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 18:44/eli-c
METALS - SUSPENDED								
Uranium	0.0011	mg/L	D	0.0009		1	E200.8	01/01/09 21:42/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:14/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	54.6	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Alpha precision (±)	4.8	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Alpha MDC	2.8	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Beta	23.0	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Beta MDC	3.4	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Lead 210	1.7	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	6.2	pCi/L				1	E903.0	01/05/09 12:37/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	01/05/09 12:37/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 12:37/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	01/08/09 08:39/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/29/08 12:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	1.4	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.2	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.49	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	0.4	pCi/L	U			1	E903.0	01/21/09 21:42/eli-c

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-003
 Client Sample ID: DewBurd GW689

Report Date: 01/27/09
 Collection Date: 12/17/08 11:02
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.3	pCi/L					1 E903.0	01/21/09 21:42/eli-c
Radium 226 MDC	0.5	pCi/L					1 E903.0	01/21/09 21:42/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1 E907.0	01/07/09 09:04/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1 E907.0	01/07/09 09:04/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1130	pCi/L		100			1 D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	62.1	pCi/L					1 D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003			1 E200.8	12/30/08 19:40/eli-c
Arsenic	0.005	mg/L	L	0.003			1 E200.8	12/30/08 19:40/eli-c
Barium	ND	mg/L		0.1			1 E200.8	12/30/08 19:40/eli-c
Beryllium	ND	mg/L		0.001			1 E200.8	12/30/08 19:40/eli-c
Boron	ND	mg/L		0.1			2 E200.7	01/05/09 19:08/eli-c
Cadmium	ND	mg/L		0.005			1 E200.8	12/30/08 19:40/eli-c
Chromium	ND	mg/L		0.05			1 E200.8	12/30/08 19:40/eli-c
Copper	ND	mg/L		0.01			1 E200.8	12/30/08 19:40/eli-c
Iron	2.38	mg/L		0.03			2 E200.7	01/05/09 19:08/eli-c
Lead	0.004	mg/L		0.001			1 E200.8	12/30/08 19:40/eli-c
Manganese	0.09	mg/L		0.01			1 E200.8	12/30/08 19:40/eli-c
Mercury	ND	mg/L		0.001			1 E245.1	12/26/08 15:09/eli-b
Molybdenum	ND	mg/L		0.1			1 E200.8	12/30/08 19:40/eli-c
Nickel	ND	mg/L		0.05			1 E200.8	12/30/08 19:40/eli-c
Selenium	ND	mg/L		0.001			1 E200.8	12/30/08 19:40/eli-c
Silver	ND	mg/L		0.005			1 E200.8	12/30/08 19:40/eli-c
Strontium	1.0	mg/L		0.1			1 E200.8	12/30/08 19:40/eli-c
Thallium	ND	mg/L		0.001			1 E200.8	12/30/08 19:40/eli-c
Uranium	0.0060	mg/L		0.0003			1 E200.8	12/30/08 19:40/eli-c
Zinc	0.01	mg/L		0.01			1 E200.8	12/30/08 19:40/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.66	%					1 A1030 E	01/23/09 00:00/jmh
Anions	11.8	meq/L					1 A1030 E	01/23/09 00:00/jmh
Cations	13.0	meq/L					1 A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	815	mg/L					1 A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.920						1 A1030 E	01/23/09 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-004
Client Sample ID: DewBurd GW3026

Report Date: 01/27/09
Collection Date: 12/17/08 12:46
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	12/23/08 10:17/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:17/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	12/23/08 10:17/mb
Calcium	377	mg/L		0.5		2	E200.7	01/05/09 13:03/eli-c
Chloride	16	mg/L		1		1	E300.0	12/19/08 00:46/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/19/08 00:46/jmh
Magnesium	120	mg/L		0.5		2	E200.7	01/05/09 13:03/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:57/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 00:46/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 00:46/jmh
Potassium	19.7	mg/L		0.5		2	E200.7	01/05/09 13:03/eli-c
Sodium	164	mg/L	D	2		2	E200.7	01/05/09 13:03/eli-c
Sulfate	1290	mg/L	D	3		50	E300.0	12/18/08 23:56/jmh
Silica	9.6	mg/L		0.2		2	E200.7	01/05/09 13:03/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2490	umhos/cm		5.0		1	A2510 B	12/19/08 09:07/tb
Oxidation-Reduction Potential	310	mV				1	A2580 B	12/23/08 14:30/jmh
pH	6.83	s.u.		0.01		1	A4500-H B	12/19/08 10:24/tb
Sodium Adsorption Ratio (SAR)	1.9	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	12/22/08 12:09/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 18:51/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/26/08 18:51/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 18:51/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	01/05/09 13:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 18:51/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 18:51/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 18:51/eli-c
Iron	6.93	mg/L		0.03		2	E200.7	01/05/09 13:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 18:51/eli-c
Manganese	1.18	mg/L		0.01		1	E200.8	12/26/08 18:51/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 18:51/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 18:51/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 18:51/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:49/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 18:51/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 18:51/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-004
Client Sample ID: DewBurd GW3026

Report Date: 01/27/09
Collection Date: 12/17/08 12:46
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0045	mg/L		0.0003		1 E200.8	12/26/08 18:51/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	12/26/08 18:51/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/26/08 18:51/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L	D	0.0009		1 E200.8	01/01/09 21:46/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	01/08/09 15:16/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	23.9	pCi/L				1 E900.0	01/14/09 01:14/eli-c
Gross Alpha precision (±)	6.1	pCi/L				1 E900.0	01/14/09 01:14/eli-c
Gross Alpha MDC	6.8	pCi/L				1 E900.0	01/14/09 01:14/eli-c
Gross Beta	19.0	pCi/L				1 E900.0	01/14/09 01:14/eli-c
Gross Beta precision (±)	5.8	pCi/L				1 E900.0	01/14/09 01:14/eli-c
Gross Beta MDC	9.1	pCi/L				1 E900.0	01/14/09 01:14/eli-c
Lead 210	2.3	pCi/L	U			1 E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	4.8	pCi/L				1 E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	8.0	pCi/L				1 E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1 RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.34	pCi/L				1 RMO-3008	01/09/09 13:47/eli-c
Radium 226	2.7	pCi/L				1 E903.0	01/05/09 12:37/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	01/05/09 12:37/eli-c
Radium 226 MDC	0.2	pCi/L				1 E903.0	01/05/09 12:37/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	01/08/09 08:39/eli-c
Gross Gamma	0.0	pCi/L	U			1 E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	12/29/08 12:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	4.0	pCi/L	U			1 E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1 E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1 E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1 RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1 RMO-3008	01/15/09 14:33/eli-c
Radium 226	0.2	pCi/L	U			1 E903.0	01/21/09 21:42/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-004
 Client Sample ID: DewBurd GW3026

Report Date: 01/27/09
 Collection Date: 12/17/08 12:46
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	01/21/09 21:42/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	01/21/09 21:42/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	355	pCi/L		100			1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	52.2	pCi/L					1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/30/08 02:06/eli-c
Arsenic	0.009	mg/L		0.001			1	E200.8	12/30/08 02:06/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/30/08 02:06/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/01/09 21:09/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	01/05/09 17:15/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/30/08 02:06/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/30/08 02:06/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/30/08 02:06/eli-c
Iron	17.0	mg/L		0.03			2	E200.7	01/05/09 17:15/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/30/08 02:06/eli-c
Manganese	1.08	mg/L		0.01			1	E200.8	12/30/08 02:06/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	12/26/08 15:11/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	01/01/09 21:09/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/30/08 02:06/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/30/08 02:06/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/02/09 19:45/eli-c
Strontium	5.9	mg/L		0.1			1	E200.8	12/30/08 02:06/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/30/08 02:06/eli-c
Uranium	0.0047	mg/L		0.0003			1	E200.8	12/30/08 02:06/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/12/09 17:02/eli-c
DATA QUALITY									
A/C Balance (± 5)	8.46	%					1	A1030 E	01/23/09 00:00/jmh
Anions	31.0	meq/L					1	A1030 E	01/23/09 00:00/jmh
Cations	36.7	meq/L					1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	2120	mg/L					1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.08						1	A1030 E	01/23/09 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-005
 Client Sample ID: DewBurd GW698

Report Date: 01/27/09
 Collection Date: 12/17/08 13:00
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	114	mg/L		5		1	A2320 B	12/23/08 10:29/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:29/mb
Bicarbonate as HCO3	139	mg/L		5		1	A2320 B	12/23/08 10:29/mb
Calcium	374	mg/L		0.5		2	E200.7	01/05/09 13:07/eli-c
Chloride	10	mg/L		1		1	E300.0	12/19/08 01:18/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	12/19/08 01:18/jmh
Magnesium	135	mg/L		0.5		2	E200.7	01/05/09 13:07/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 01:18/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 01:18/jmh
Potassium	15.5	mg/L		0.5		2	E200.7	01/05/09 13:07/eli-c
Sodium	84	mg/L	D	2		2	E200.7	01/05/09 13:07/eli-c
Sulfate	1340	mg/L	D	3		50	E300.0	12/19/08 01:02/jmh
Silica	11.3	mg/L		0.2		2	E200.7	01/05/09 13:07/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2290	umhos/cm		5.0		1	A2510 B	12/19/08 09:09/tb
Oxidation-Reduction Potential	160	mV				1	A2580 B	12/23/08 14:30/jmh
pH	6.92	s.u.		0.01		1	A4500-H B	12/19/08 10:25/tb
Sodium Adsorption Ratio (SAR)	0.95	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	12/22/08 12:11/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 18:58/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 18:58/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 18:58/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 13:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 18:58/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 18:58/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 18:58/eli-c
Iron	2.99	mg/L		0.03		2	E200.7	01/05/09 13:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 18:58/eli-c
Manganese	2.58	mg/L		0.01		1	E200.8	12/26/08 18:58/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 18:58/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 18:58/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 18:58/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:51/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 18:58/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 18:58/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-005
 Client Sample ID: DewBurd GW698

Report Date: 01/27/09
 Collection Date: 12/17/08 13:00
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0998	mg/L		0.0003		1 E200.8	12/26/08 18:58/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	12/26/08 18:58/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/26/08 18:58/eli-c
METALS - SUSPENDED							
Uranium	0.0028	mg/L	D	0.0009		1 E200.8	01/01/09 21:50/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	01/08/09 15:19/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1570	pCi/L				1 E900.0	01/14/09 01:14/eli-ca
Gross Alpha precision (±)	37.7	pCi/L				1 E900.0	01/14/09 01:14/eli-ca
Gross Alpha MDC	6.7	pCi/L				1 E900.0	01/14/09 01:14/eli-ca
Gross Beta	664	pCi/L				1 E900.0	01/14/09 01:14/eli-ca
Gross Beta precision (±)	13.0	pCi/L				1 E900.0	01/14/09 01:14/eli-ca
Gross Beta MDC	9.1	pCi/L				1 E900.0	01/14/09 01:14/eli-ca
Lead 210	4.7	pCi/L				1 E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.5	pCi/L				1 E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1 E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1 RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1 RMO-3008	01/09/09 13:47/eli-c
Radium 226	363	pCi/L				1 E903.0	01/05/09 12:37/eli-ca
Radium 226 precision (±)	3.1	pCi/L				1 E903.0	01/05/09 12:37/eli-ca
Radium 226 MDC	0.1	pCi/L				1 E903.0	01/05/09 12:37/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	01/08/09 08:39/eli-c
Gross Gamma	620	pCi/L				1 E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	63	pCi/L				1 E901.1	12/29/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	3.2	pCi/L	U			1 E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1 E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1 E909.0M	01/06/09 10:06/eli-c
Polonium 210	1.0	pCi/L		1.0		1 RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.81	pCi/L				1 RMO-3008	01/15/09 14:33/eli-c
Radium 226	4.7	pCi/L				1 E903.0	01/21/09 21:42/eli-c
Radium 226 precision (±)	0.7	pCi/L				1 E903.0	01/21/09 21:42/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-005
 Client Sample ID: DewBurd GW698

Report Date: 01/27/09
 Collection Date: 12/17/08 13:00
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 MDC	0.5	pCi/L				1 E903.0	01/21/09 21:42/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1 E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	01/07/09 13:33/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - TOTAL							
Radon 222	37600	pCi/L		100		1 D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	230	pCi/L				1 D5072-92	12/19/08 15:40/eli-c

TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	01/14/09 13:58/eli-c
Arsenic	0.004	mg/L	L	0.002		1 E200.8	01/01/09 19:35/eli-c
Barium	ND	mg/L		0.1		1 E200.8	01/01/09 19:35/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	01/01/09 19:35/eli-c
Boron	ND	mg/L		0.1		2 E200.7	01/05/09 19:57/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	01/01/09 19:35/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	01/01/09 19:35/eli-c
Copper	ND	mg/L		0.01		1 E200.8	01/01/09 19:35/eli-c
Iron	4.66	mg/L		0.03		2 E200.7	01/05/09 19:57/eli-c
Lead	ND	mg/L		0.001		1 E200.8	01/01/09 19:35/eli-c
Manganese	2.54	mg/L		0.01		1 E200.8	01/01/09 19:35/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	12/26/08 15:19/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	01/01/09 19:35/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	01/01/09 19:35/eli-c
Selenium	ND	mg/L	L	0.002		1 E200.8	01/01/09 19:35/eli-c
Silver	ND	mg/L		0.005		1 E200.8	01/01/09 19:35/eli-c
Strontium	4.9	mg/L		0.1		1 E200.8	01/01/09 19:35/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	01/01/09 19:35/eli-c
Uranium	0.112	mg/L		0.0003		1 E200.8	01/01/09 19:35/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	01/08/09 17:22/eli-c

-Sb fails high in LCS, since sample is ND it is not effected by the high bias. Rdw

DATA QUALITY							
A/C Balance (± 5)	5.82	%				1 A1030 E	01/23/09 00:00/jmh
Anions	30.4	meq/L				1 A1030 E	01/23/09 00:00/jmh
Cations	34.2	meq/L				1 A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	2060	mg/L				1 A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07					1 A1030 E	01/23/09 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 15 of 39
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration L - Lowest available reporting limit for the analytical method used.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-006
 Client Sample ID: DewBurd GW698

Report Date: 01/27/09
 Collection Date: 12/17/08 13:15
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	114	mg/L		5		1	A2320 B	12/23/08 10:56/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 10:56/mb
Bicarbonate as HCO3	139	mg/L		5		1	A2320 B	12/23/08 10:56/mb
Calcium	392	mg/L		0.5		2	E200.7	01/05/09 13:11/eli-c
Chloride	10	mg/L		1		1	E300.0	12/19/08 01:51/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	12/19/08 01:51/jmh
Magnesium	143	mg/L		0.5		2	E200.7	01/05/09 13:11/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	12/26/08 14:59/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 01:51/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 01:51/jmh
Potassium	16.2	mg/L		0.5		2	E200.7	01/05/09 13:11/eli-c
Sodium	90	mg/L	D	2		2	E200.7	01/05/09 13:11/eli-c
Sulfate	1340	mg/L	D	3		50	E300.0	12/19/08 01:35/jmh
Silica	11.4	mg/L		0.2		2	E200.7	01/05/09 13:11/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2320	umhos/cm		5.0		1	A2510 B	12/19/08 09:10/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	12/23/08 14:30/jmh
pH	6.86	s.u.		0.01		1	A4500-H B	12/19/08 10:26/tb
Sodium Adsorption Ratio (SAR)	0.99	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	12/22/08 12:12/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 19:05/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 19:05/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 19:05/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 13:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 19:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 19:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 19:05/eli-c
Iron	0.22	mg/L		0.03		2	E200.7	01/05/09 13:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 19:05/eli-c
Manganese	2.63	mg/L		0.01		1	E200.8	12/26/08 19:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 19:05/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 19:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 19:05/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 15:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 19:05/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 19:05/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-006
Client Sample ID: DewBurd GW698

Report Date: 01/27/09
Collection Date: 12/17/08 13:15
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Uranium	0.0956	mg/L		0.0003			1	E200.8	12/26/08 19:05/eli-c
Vanadium	ND	mg/L		0.1			1	E200.8	12/26/08 19:05/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	12/26/08 19:05/eli-c
METALS - SUSPENDED									
Uranium	0.0055	mg/L	D	0.0009			1	E200.8	01/01/09 22:10/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	01/08/09 15:23/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	1730	pCi/L					1	E900.0	01/14/09 01:14/eli-c
Gross Alpha precision (±)	39.2	pCi/L					1	E900.0	01/14/09 01:14/eli-c
Gross Alpha MDC	6.5	pCi/L					1	E900.0	01/14/09 01:14/eli-c
Gross Beta	626	pCi/L					1	E900.0	01/14/09 01:14/eli-c
Gross Beta precision (±)	12.6	pCi/L					1	E900.0	01/14/09 01:14/eli-c
Gross Beta MDC	9.1	pCi/L					1	E900.0	01/14/09 01:14/eli-c
Lead 210	4.1	pCi/L					1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L					1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L					1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.4	pCi/L	U	1.0			1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.42	pCi/L					1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	335	pCi/L					1	E903.0	01/05/09 12:37/eli-c
Radium 226 precision (±)	3.2	pCi/L					1	E903.0	01/05/09 12:37/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	01/05/09 12:37/eli-c
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	01/08/09 08:39/eli-c
Thorium 230 precision (±)	0.09	pCi/L					1	E907.0	01/08/09 08:39/eli-c
Gross Gamma	650	pCi/L					1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	66	pCi/L					1	E901.1	12/29/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED									
Lead 210	3.4	pCi/L	U				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L					1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L					1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	1.4	pCi/L		1.0			1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.69	pCi/L					1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	21.6	pCi/L					1	E903.0	01/21/09 21:42/eli-c
Radium 226 precision (±)	1.4	pCi/L					1	E903.0	01/21/09 21:42/eli-c

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-006
 Client Sample ID: DewBurd GW698

Report Date: 01/27/09
 Collection Date: 12/17/08 13:15
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L					1	E903.0 01/21/09 21:42/eli-c
Thorium 230	0.3	pCi/L	U	0.2			1	E907.0 01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0 01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	36700	pCi/L		100			1	D5072-92 12/19/08 15:40/eli-c
Radon 222 precision (±)	227	pCi/L					1	D5072-92 12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003			1	E200.8 12/30/08 19:47/eli-c
Arsenic	0.004	mg/L	L	0.003			1	E200.8 12/30/08 19:47/eli-c
Barium	ND	mg/L		0.1			1	E200.8 12/30/08 19:47/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8 12/30/08 19:47/eli-c
Boron	ND	mg/L		0.1			2	E200.7 01/05/09 19:16/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8 12/30/08 19:47/eli-c
Chromium	ND	mg/L		0.05			1	E200.8 12/30/08 19:47/eli-c
Copper	ND	mg/L		0.01			1	E200.8 12/30/08 19:47/eli-c
Iron	4.56	mg/L		0.03			2	E200.7 01/05/09 19:16/eli-c
Lead	ND	mg/L		0.001			1	E200.8 12/30/08 19:47/eli-c
Manganese	2.40	mg/L		0.01			1	E200.8 12/30/08 19:47/eli-c
Mercury	ND	mg/L		0.001			1	E245.1 12/26/08 15:21/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8 12/30/08 19:47/eli-c
Nickel	ND	mg/L		0.05			1	E200.8 12/30/08 19:47/eli-c
Selenium	0.001	mg/L		0.001			1	E200.8 12/30/08 19:47/eli-c
Silver	ND	mg/L		0.005			1	E200.8 12/30/08 19:47/eli-c
Strontium	4.6	mg/L		0.1			1	E200.8 12/30/08 19:47/eli-c
Thallium	ND	mg/L		0.001			1	E200.8 12/30/08 19:47/eli-c
Uranium	0.107	mg/L		0.0003			1	E200.8 12/30/08 19:47/eli-c
Zinc	ND	mg/L		0.01			1	E200.8 12/30/08 19:47/eli-c
DATA QUALITY								
A/C Balance (± 5)	8.29	%					1	A1030 E 01/23/09 00:00/jmh
Anions	30.4	meq/L					1	A1030 E 01/23/09 00:00/jmh
Cations	35.9	meq/L					1	A1030 E 01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	2090	mg/L					1	A1030 E 01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06						1	A1030 E 01/23/09 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 18 of 39
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration L - Lowest available reporting limit for the analytical method used.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-007
 Client Sample ID: DewBurd GW680

Report Date: 01/27/09
 Collection Date: 12/17/08 13:50
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	252	mg/L		5		1	A2320 B	12/23/08 11:03/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:03/mb
Bicarbonate as HCO3	307	mg/L		5		1	A2320 B	12/23/08 11:03/mb
Calcium	396	mg/L		0.5		2	E200.7	01/05/09 13:15/eli-c
Chloride	13	mg/L		1		1	E300.0	12/19/08 02:57/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	12/19/08 02:57/jmh
Magnesium	128	mg/L		0.5		2	E200.7	01/05/09 13:15/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:00/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 02:57/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 02:57/jmh
Potassium	19.3	mg/L		0.5		2	E200.7	01/05/09 13:15/eli-c
Sodium	151	mg/L	D	2		2	E200.7	01/05/09 13:15/eli-c
Sulfate	1310	mg/L	D	3		50	E300.0	12/19/08 02:08/jmh
Silica	9.4	mg/L		0.2		2	E200.7	01/05/09 13:15/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2510	umhos/cm		5.0		1	A2510 B	12/19/08 09:12/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.23	s.u.		0.01		1	A4500-H B	12/19/08 10:28/tb
Sodium Adsorption Ratio (SAR)	1.7	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	12/22/08 12:12/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 19:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 19:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 19:12/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	01/05/09 13:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 19:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 19:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 19:12/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	01/05/09 13:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 19:12/eli-c
Manganese	0.49	mg/L		0.01		1	E200.8	12/26/08 19:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 19:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 19:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 19:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 19:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 19:12/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-007
Client Sample ID: DewBurd GW680

Report Date: 01/27/09
Collection Date: 12/17/08 13:50
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0199	mg/L		0.0003		1	E200.8	12/26/08 19:12/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 19:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 19:12/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:14/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:30/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	5140	pCi/L				1	E900.0	01/14/09 01:14/eli-ce
Gross Alpha precision (±)	71.3	pCi/L				1	E900.0	01/14/09 01:14/eli-ce
Gross Alpha MDC	7.4	pCi/L				1	E900.0	01/14/09 01:14/eli-ce
Gross Beta	2070	pCi/L				1	E900.0	01/14/09 01:14/eli-ce
Gross Beta precision (±)	23.6	pCi/L				1	E900.0	01/14/09 01:14/eli-ce
Gross Beta MDC	10.8	pCi/L				1	E900.0	01/14/09 01:14/eli-ce
Lead 210	6.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.49	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	1110	pCi/L				1	E903.0	01/05/09 12:37/eli-ce
Radium 226 precision (±)	5.5	pCi/L				1	E903.0	01/05/09 12:37/eli-ce
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 12:37/eli-ce
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	01/08/09 15:39/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	01/08/09 15:39/eli-c
Gross Gamma	1500	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	96	pCi/L				1	E901.1	12/29/08 12:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	5.9	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	2.8	pCi/L		1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	13.1	pCi/L				1	E903.0	01/21/09 21:42/eli-c
Radium 226 precision (±)	1.1	pCi/L				1	E903.0	01/21/09 21:42/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-007
 Client Sample ID: DewBurd GW680

Report Date: 01/27/09
 Collection Date: 12/17/08 13:50
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.5	pCi/L					1	E903.0	01/21/09 21:42/eli-c
Thorium 230	-0.3	pCi/L	U	0.2			1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	62200	pCi/L		100			1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	293	pCi/L					1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/30/08 02:13/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	12/30/08 02:13/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/30/08 02:13/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/01/09 21:16/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	01/05/09 17:19/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/30/08 02:13/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/30/08 02:13/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/30/08 02:13/eli-c
Iron	0.35	mg/L		0.03			2	E200.7	01/05/09 17:19/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/30/08 02:13/eli-c
Manganese	0.44	mg/L		0.01			1	E200.8	12/30/08 02:13/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	12/26/08 15:23/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	01/01/09 21:16/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/30/08 02:13/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/30/08 02:13/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/02/09 19:52/eli-c
Strontium	7.2	mg/L		0.1			1	E200.8	12/30/08 02:13/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/30/08 02:13/eli-c
Uranium	0.0203	mg/L		0.0003			1	E200.8	12/30/08 02:13/eli-c
Zinc	0.01	mg/L		0.01			1	E200.8	01/12/09 17:44/eli-c
DATA QUALITY									
A/C Balance (± 5)	6.75	%					1	A1030 E	01/23/09 00:00/jmh
Anions	32.7	meq/L					1	A1030 E	01/23/09 00:00/jmh
Cations	37.4	meq/L					1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	2190	mg/L					1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	1.05						1	A1030 E	01/23/09 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-008
 Client Sample ID: DewBurd GW622

Report Date: 01/27/09
 Collection Date: 12/17/08 14:20
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	146	mg/L		5		1	A2320 B	12/23/08 11:06/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:06/mb
Bicarbonate as HCO3	178	mg/L		5		1	A2320 B	12/23/08 11:06/mb
Calcium	73.0	mg/L		0.5		2	E200.7	01/05/09 13:19/eli-c
Chloride	10	mg/L		1		1	E300.0	12/19/08 04:03/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	12/19/08 04:03/jmh
Magnesium	31.4	mg/L		0.5		2	E200.7	01/05/09 13:19/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:01/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 04:03/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 04:03/jmh
Potassium	10.4	mg/L		0.5		2	E200.7	01/05/09 13:19/eli-c
Sodium	178	mg/L	D	2		2	E200.7	01/05/09 13:19/eli-c
Sulfate	476	mg/L	D	3		50	E300.0	12/19/08 03:13/jmh
Silica	5.8	mg/L		0.2		2	E200.7	01/05/09 13:19/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1220	umhos/cm		5.0		1	A2510 B	12/19/08 09:13/tb
Oxidation-Reduction Potential	250	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.46	s.u.		0.01		1	A4500-H B	12/19/08 10:35/tb
Sodium Adsorption Ratio (SAR)	4.4	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	880	mg/L		5		1	A2540 C	12/22/08 12:13/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 19:18/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 19:18/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 19:18/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 13:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 19:18/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 19:18/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 19:18/eli-c
Iron	0.09	mg/L		0.03		2	E200.7	01/05/09 13:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 19:18/eli-c
Manganese	0.28	mg/L		0.01		1	E200.8	12/26/08 19:18/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 19:18/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 19:18/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 19:18/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:03/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 19:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 19:18/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 22 of 39
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-008
Client Sample ID: DewBurd GW622

Report Date: 01/27/09
Collection Date: 12/17/08 14:20
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/26/08 19:18/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 19:18/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 19:18/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:18/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:32/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.8	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Gross Alpha precision (±)	2.4	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Gross Alpha MDC	3.0	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Gross Beta	9.6	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Gross Beta MDC	3.9	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Lead 210	2.5	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.13	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	1.3	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 15:38/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 15:38/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	12/29/08 12:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	3.1	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.24	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	0.8	pCi/L				1	E903.0	01/21/09 21:42/eli-c

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-008
 Client Sample ID: DewBurd GW622

Report Date: 01/27/09
 Collection Date: 12/17/08 14:20
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	01/21/09 21:42/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	01/21/09 21:42/eli-c
Thorium 230	-0.2	pCi/L	U	0.2			1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	50.2	pCi/L	U	100			1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	47.5	pCi/L					1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/30/08 02:20/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	12/30/08 02:20/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/30/08 02:20/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/01/09 22:58/eli-c
Boron	ND	mg/L		0.1			2	E200.7	01/05/09 17:23/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/30/08 02:20/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/30/08 02:20/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/30/08 02:20/eli-c
Iron	11.0	mg/L		0.03			2	E200.7	01/05/09 17:23/eli-c
Lead	0.005	mg/L		0.001			1	E200.8	12/30/08 02:20/eli-c
Manganese	0.27	mg/L		0.01			1	E200.8	12/30/08 02:20/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	12/26/08 15:30/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	01/01/09 22:58/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/30/08 02:20/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/30/08 02:20/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/01/09 22:58/eli-c
Strontium	1.1	mg/L		0.1			1	E200.8	12/30/08 02:20/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/30/08 02:20/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	12/30/08 02:20/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/12/09 17:50/eli-c
DATA QUALITY									
A/C Balance (± 5)	4.09	%					1	A1030 E	01/23/09 00:00/jmh
Anions	13.1	meq/L					1	A1030 E	01/23/09 00:00/jmh
Cations	14.3	meq/L					1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	883	mg/L					1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.990						1	A1030 E	01/23/09 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-009
Client Sample ID: DewBurd GW697

Report Date: 01/27/09
Collection Date: 12/17/08 14:45
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	12/23/08 11:09/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:09/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	12/23/08 11:09/mb
Calcium	53.4	mg/L		0.5		2	E200.7	01/05/09 13:23/eli-c
Chloride	8	mg/L		1		1	E300.0	12/19/08 04:35/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	12/19/08 04:35/jmh
Magnesium	17.4	mg/L		0.5		2	E200.7	01/05/09 13:23/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:02/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 04:35/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 04:35/jmh
Potassium	8.4	mg/L		0.5		2	E200.7	01/05/09 13:23/eli-c
Sodium	210	mg/L	D	2		2	E200.7	01/05/09 13:23/eli-c
Sulfate	442	mg/L	D	3		50	E300.0	12/19/08 04:19/jmh
Silica	9.5	mg/L		0.2		2	E200.7	01/05/09 13:23/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1190	umhos/cm		5.0		1	A2510 B	12/19/08 09:15/tb
Oxidation-Reduction Potential	250	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.98	s.u.		0.01		1	A4500-H B	12/19/08 10:38/tb
Sodium Adsorption Ratio (SAR)	6.4	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	810	mg/L		5		1	A2540 C	12/22/08 12:13/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 19:25/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 19:25/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 19:25/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 13:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 19:25/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 19:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 19:25/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 13:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 19:25/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/26/08 19:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 19:25/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 19:25/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 19:25/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 19:25/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 19:25/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-009
 Client Sample ID: DewBurd GW697

Report Date: 01/27/09
 Collection Date: 12/17/08 14:45
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/26/08 19:25/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 19:25/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	12/26/08 19:25/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:22/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	7.7	pCi/L				1	E900.0	01/14/09 01:15/eli-ce
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	01/14/09 01:15/eli-ce
Gross Alpha MDC	2.9	pCi/L				1	E900.0	01/14/09 01:15/eli-ce
Gross Beta	7.1	pCi/L				1	E900.0	01/14/09 01:15/eli-ce
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	01/14/09 01:15/eli-ce
Gross Beta MDC	3.9	pCi/L				1	E900.0	01/14/09 01:15/eli-ce
Lead 210	1.6	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	1.2	pCi/L				1	E903.0	01/05/09 14:13/eli-ce
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-ce
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-ce
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 15:38/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 15:38/eli-c
Gross Gamma	820	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	12/29/08 12:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	2.8	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	-0.07	pCi/L	U			1	E903.0	01/21/09 23:27/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-009
 Client Sample ID: DewBurd GW697

Report Date: 01/27/09
 Collection Date: 12/17/08 14:45
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L					1	E903.0	01/21/09 23:27/eli-c
Thorium 230	-0.2	pCi/L	U	0.2			1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	200	pCi/L		100			1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	49.5	pCi/L					1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	12/30/08 02:26/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	12/30/08 02:26/eli-c
Barium	ND	mg/L		0.1			1	E200.8	12/30/08 02:26/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/01/09 23:05/eli-c
Boron	ND	mg/L		0.1			2	E200.7	01/05/09 17:27/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	12/30/08 02:26/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	12/30/08 02:26/eli-c
Copper	ND	mg/L		0.01			1	E200.8	12/30/08 02:26/eli-c
Iron	0.34	mg/L		0.03			2	E200.7	01/05/09 17:27/eli-c
Lead	ND	mg/L		0.001			1	E200.8	12/30/08 02:26/eli-c
Manganese	0.05	mg/L		0.01			1	E200.8	12/30/08 02:26/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	12/26/08 15:33/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	01/01/09 23:05/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	12/30/08 02:26/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	12/30/08 02:26/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/01/09 23:05/eli-c
Strontium	1.1	mg/L		0.1			1	E200.8	12/30/08 02:26/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	12/30/08 02:26/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	12/30/08 02:26/eli-c
Zinc	0.02	mg/L		0.01			1	E200.8	01/12/09 17:57/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.60	%					1	A1030 E	01/23/09 00:00/jmh
Anions	12.8	meq/L					1	A1030 E	01/23/09 00:00/jmh
Cations	13.5	meq/L					1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	866	mg/L					1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.930						1	A1030 E	01/23/09 00:00/jmh

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 27 of 39
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-010
 Client Sample ID: DewBurd GW695

Report Date: 01/27/09
 Collection Date: 12/17/08 15:10
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	172	mg/L		5		1	A2320 B	12/23/08 11:13/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:13/mb
Bicarbonate as HCO3	210	mg/L		5		1	A2320 B	12/23/08 11:13/mb
Calcium	50.9	mg/L		0.5		2	E200.7	01/05/09 13:36/eli-c
Chloride	12	mg/L		1		1	E300.0	12/19/08 05:08/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/19/08 05:08/jmh
Magnesium	18.4	mg/L		0.5		2	E200.7	01/05/09 13:36/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:06/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 05:08/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 05:08/jmh
Potassium	8.6	mg/L		0.5		2	E200.7	01/05/09 13:36/eli-c
Sodium	247	mg/L	D	2		2	E200.7	01/05/09 13:36/eli-c
Sulfate	483	mg/L	D	3		50	E300.0	12/19/08 04:52/jmh
Silica	8.8	mg/L		0.2		2	E200.7	01/05/09 13:36/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1320	umhos/cm		5.0		1	A2510 B	12/19/08 09:16/tb
Oxidation-Reduction Potential	250	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.93	s.u.		0.01		1	A4500-H B	12/19/08 10:39/tb
Sodium Adsorption Ratio (SAR)	7.5	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5		1	A2540 C	12/22/08 12:14/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 19:32/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 19:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 19:32/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 13:36/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 19:32/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 19:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 19:32/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 13:36/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 19:32/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	12/26/08 19:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 19:32/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 19:32/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 19:32/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 19:32/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 19:32/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 28 of 39
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-010
Client Sample ID: DewBurd GW695

Report Date: 01/27/09
Collection Date: 12/17/08 15:10
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0026	mg/L		0.0003		1	E200.8	12/26/08 19:32/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 19:32/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 19:32/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:26/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:36/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	26.8	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Gross Alpha MDC	3.4	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Gross Beta	13.0	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Gross Beta MDC	5.4	pCi/L				1	E900.0	01/14/09 01:15/eli-c
Lead 210	3.4	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.13	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	4.8	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 15:38/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 15:38/eli-c
Gross Gamma	850	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	12/29/08 12:00/eli-c
<p>- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.</p>								
RADIONUCLIDES - SUSPENDED								
Lead 210	5.9	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	01/21/09 23:27/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-010
 Client Sample ID: DewBurd GW695

Report Date: 01/27/09
 Collection Date: 12/17/08 15:10
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1880	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	68.3	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 02:33/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/30/08 02:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 02:33/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 23:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 17:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 02:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 02:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 02:33/eli-c
Iron	0.17	mg/L		0.03		2	E200.7	01/05/09 17:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 02:33/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	12/30/08 02:33/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:35/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 23:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 02:33/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 02:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/01/09 23:12/eli-c
Strontium	0.9	mg/L		0.1		1	E200.8	12/30/08 02:33/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 02:33/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	12/30/08 02:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/12/09 18:04/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.06	%				1	A1030 E	01/23/09 00:00/jmh
Anions	13.8	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	15.0	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	947	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940					1	A1030 E	01/23/09 00:00/jmh

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-011
 Client Sample ID: DewBurd GW694

Report Date: 01/27/09
 Collection Date: 12/17/08 15:45
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	204	mg/L		5		1	A2320 B 12/23/08 11:18/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 12/23/08 11:18/mb
Bicarbonate as HCO3	249	mg/L		5		1	A2320 B 12/23/08 11:18/mb
Calcium	96.1	mg/L		0.5		2	E200.7 01/05/09 14:00/eli-c
Chloride	9	mg/L		1		1	E300.0 12/19/08 06:14/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0 12/19/08 06:14/jmh
Magnesium	36.0	mg/L		0.5		2	E200.7 01/05/09 14:00/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G 12/26/08 15:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 12/19/08 06:14/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 12/19/08 06:14/jmh
Potassium	12.9	mg/L		0.5		2	E200.7 01/05/09 14:00/eli-c
Sodium	172	mg/L	D	2		2	E200.7 01/05/09 14:00/eli-c
Sulfate	507	mg/L	D	3		50	E300.0 12/19/08 05:25/jmh
Silica	9.5	mg/L		0.2		2	E200.7 01/05/09 14:00/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1320	umhos/cm		5.0		1	A2510 B 12/19/08 09:17/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B 12/23/08 14:30/jmh
pH	7.70	s.u.		0.01		1	A4500-H B 12/19/08 10:40/tb
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10		1	Calculation 01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5		1	A2540 C 12/22/08 12:15/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 12/26/08 20:19/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 12/26/08 20:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8 12/26/08 20:19/eli-c
Boron	ND	mg/L		0.1		2	E200.7 01/05/09 14:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 12/26/08 20:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 12/26/08 20:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8 12/26/08 20:19/eli-c
Iron	ND	mg/L		0.03		2	E200.7 01/05/09 14:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8 12/26/08 20:19/eli-c
Manganese	0.16	mg/L		0.01		1	E200.8 12/26/08 20:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 12/26/08 20:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 12/26/08 20:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 12/26/08 20:19/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 01/09/09 16:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8 12/26/08 20:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 12/26/08 20:19/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-011
 Client Sample ID: DewBurd GW694

Report Date: 01/27/09
 Collection Date: 12/17/08 15:45
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0005	mg/L		0.0003		1	E200.8	12/26/08 20:19/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 20:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 20:19/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:30/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:39/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	9.3	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Alpha MDC	3.3	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Beta	7.7	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Beta MDC	4.5	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Lead 210	2.2	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	1.5	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	01/08/09 15:38/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 15:38/eli-c
Gross Gamma	850	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	12/29/08 12:00/eli-c
<p>- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.</p>								
RADIONUCLIDES - SUSPENDED								
Lead 210	1.7	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.3	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.46	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	01/21/09 23:27/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-011
 Client Sample ID: DewBurd GW694

Report Date: 01/27/09
 Collection Date: 12/17/08 15:45
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	01/21/09 23:27/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	215	pCi/L		100		1	D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	49.3	pCi/L				1	D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	12/30/08 02:39/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/30/08 02:39/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/30/08 02:39/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/01/09 23:18/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	01/05/09 18:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/30/08 02:39/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/30/08 02:39/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/30/08 02:39/eli-c
Iron	0.19	mg/L		0.03		2	E200.7	01/05/09 18:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/08 02:39/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	12/30/08 02:39/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/26/08 15:37/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/01/09 23:18/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/30/08 02:39/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	12/30/08 02:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/01/09 23:18/eli-c
Strontium	2.7	mg/L		0.1		1	E200.8	12/30/08 02:39/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/08 02:39/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	12/30/08 02:39/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/12/09 18:11/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.21	%				1	A1030 E	01/23/09 00:00/jmh
Anions	14.9	meq/L				1	A1030 E	01/23/09 00:00/jmh
Cations	15.6	meq/L				1	A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	981	mg/L				1	A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	01/23/09 00:00/jmh

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-012
Client Sample ID: DewBurd GW696

Report Date: 01/27/09
Collection Date: 12/17/08 16:05
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	12/23/08 11:20/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:20/mb
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	12/23/08 11:20/mb
Calcium	29.8	mg/L		0.5		2	E200.7	01/05/09 14:04/eli-c
Chloride	13	mg/L		1		1	E300.0	12/19/08 07:20/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	12/19/08 07:20/jmh
Magnesium	10.4	mg/L		0.5		2	E200.7	01/05/09 14:04/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:11/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/19/08 07:20/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/19/08 07:20/jmh
Potassium	9.0	mg/L		0.5		2	E200.7	01/05/09 14:04/eli-c
Sodium	280	mg/L	D	2		2	E200.7	01/05/09 14:04/eli-c
Sulfate	459	mg/L	D	3		50	E300.0	12/19/08 06:30/jmh
Silica	9.9	mg/L		0.2		2	E200.7	01/05/09 14:04/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1340	umhos/cm		5.0		1	A2510 B	12/19/08 09:20/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	12/23/08 14:30/jmh
pH	8.14	s.u.		0.01		1	A4500-H B	12/19/08 10:42/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	12/22/08 12:17/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/26/08 20:26/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/26/08 20:26/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/26/08 20:26/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 14:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/26/08 20:26/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/26/08 20:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/26/08 20:26/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 14:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/26/08 20:26/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	12/26/08 20:26/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/08 20:26/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/26/08 20:26/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/26/08 20:26/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:17/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/26/08 20:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/26/08 20:26/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-012
 Client Sample ID: DewBurd GW696

Report Date: 01/27/09
 Collection Date: 12/17/08 16:05
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/26/08 20:26/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 20:26/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 20:26/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:34/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:47/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	8.2	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Alpha MDC	3.4	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Beta	9.5	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Gross Beta MDC	4.0	pCi/L				1	E900.0	01/14/09 01:14/eli-c
Lead 210	3.2	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.14	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	0.8	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	01/08/09 15:39/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	01/08/09 15:39/eli-c
Gross Gamma	840	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	12/29/08 12:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.5	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.2	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	01/21/09 23:27/eli-c

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120255-012
Client Sample ID: DewBurd GW696

Report Date: 01/27/09
Collection Date: 12/17/08 16:05
Date Received: 12/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 precision (±)	0.2	pCi/L					1 E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L					1 E903.0	01/21/09 23:27/eli-c
Thorium 230	-0.2	pCi/L	U	0.2			1 E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1 E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	182	pCi/L		100			1 D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	48.8	pCi/L					1 D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003			1 E200.8	12/30/08 02:46/eli-c
Arsenic	ND	mg/L		0.001			1 E200.8	12/30/08 02:46/eli-c
Barium	ND	mg/L		0.1			1 E200.8	12/30/08 02:46/eli-c
Beryllium	ND	mg/L		0.001			1 E200.8	01/01/09 23:25/eli-c
Boron	ND	mg/L		0.1			2 E200.7	01/05/09 18:24/eli-c
Cadmium	ND	mg/L		0.005			1 E200.8	12/30/08 02:46/eli-c
Chromium	ND	mg/L		0.05			1 E200.8	12/30/08 02:46/eli-c
Copper	ND	mg/L		0.01			1 E200.8	12/30/08 02:46/eli-c
Iron	0.16	mg/L		0.03			2 E200.7	01/05/09 18:24/eli-c
Lead	ND	mg/L		0.001			1 E200.8	12/30/08 02:46/eli-c
Manganese	0.06	mg/L		0.01			1 E200.8	12/30/08 02:46/eli-c
Mercury	ND	mg/L		0.001			1 E245.1	12/26/08 15:40/eli-b
Molybdenum	ND	mg/L		0.1			1 E200.8	01/01/09 23:25/eli-c
Nickel	ND	mg/L		0.05			1 E200.8	12/30/08 02:46/eli-c
Selenium	ND	mg/L		0.001			1 E200.8	12/30/08 02:46/eli-c
Silver	ND	mg/L		0.005			1 E200.8	01/01/09 23:25/eli-c
Strontium	0.7	mg/L		0.1			1 E200.8	12/30/08 02:46/eli-c
Thallium	ND	mg/L		0.001			1 E200.8	12/30/08 02:46/eli-c
Uranium	ND	mg/L		0.0003			1 E200.8	12/30/08 02:46/eli-c
Zinc	ND	mg/L		0.01			1 E200.8	01/12/09 18:18/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.39	%					1 A1030 E	01/23/09 00:00/jmh
Anions	13.5	meq/L					1 A1030 E	01/23/09 00:00/jmh
Cations	14.8	meq/L					1 A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	936	mg/L					1 A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.970						1 A1030 E	01/23/09 00:00/jmh

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-013
 Client Sample ID: DewBurd GW615

Report Date: 01/27/09
 Collection Date: 12/17/08 11:27
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	140	mg/L		5		1	A2320 B 12/23/08 11:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 12/23/08 11:24/mb
Bicarbonate as HCO3	171	mg/L		5		1	A2320 B 12/23/08 11:24/mb
Calcium	72.2	mg/L		0.5		2	E200.7 01/05/09 14:09/eli-c
Chloride	5	mg/L		1		1	E300.0 12/19/08 07:52/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 12/19/08 07:52/jmh
Magnesium	21.4	mg/L		0.5		2	E200.7 01/05/09 14:09/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 12/26/08 15:12/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 12/19/08 07:52/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 12/19/08 07:52/jmh
Potassium	8.7	mg/L		0.5		2	E200.7 01/05/09 14:09/eli-c
Sodium	131	mg/L	D	2		2	E200.7 01/05/09 14:09/eli-c
Sulfate	388	mg/L	D	3		50	E300.0 12/19/08 07:36/jmh
Silica	8.9	mg/L		0.2		2	E200.7 01/05/09 14:09/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	965	umhos/cm		5.0		1	A2510 B 12/19/08 09:22/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B 12/23/08 14:30/jmh
pH	7.34	s.u.		0.01		1	A4500-H B 12/19/08 10:44/tb
Sodium Adsorption Ratio (SAR)	3.5	unitless		0.10		1	Calculation 01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	700	mg/L		5		1	A2540 C 12/22/08 12:19/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 12/26/08 20:33/eli-c
Arsenic	0.011	mg/L		0.001		1	E200.8 12/26/08 20:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8 12/26/08 20:33/eli-c
Boron	ND	mg/L		0.1		2	E200.7 01/05/09 14:09/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 12/26/08 20:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 12/26/08 20:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8 12/26/08 20:33/eli-c
Iron	0.03	mg/L		0.03		2	E200.7 01/05/09 14:09/eli-c
Lead	ND	mg/L		0.001		1	E200.8 12/26/08 20:33/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8 12/26/08 20:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 12/26/08 20:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 12/26/08 20:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 12/26/08 20:33/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 01/09/09 16:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8 12/26/08 20:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 12/26/08 20:33/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-013
 Client Sample ID: DewBurd GW615

Report Date: 01/27/09
 Collection Date: 12/17/08 11:27
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Uranium	0.0023	mg/L		0.0003		1	E200.8	12/26/08 20:33/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/26/08 20:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/26/08 20:33/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:38/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	21.7	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Alpha MDC	2.4	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta	12.8	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Gross Beta MDC	3.1	pCi/L				1	E900.0	01/14/09 01:14/eli-ca
Lead 210	2.2	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.18	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	2.1	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-ca
Thorium 230	0.3	pCi/L	U	0.2		1	E907.0	01/08/09 15:39/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	01/08/09 15:39/eli-c
Gross Gamma	960	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	12/29/08 12:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	1.1	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.2	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.38	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	-0.3	pCi/L	U			1	E903.0	01/21/09 23:27/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120255-013
 Client Sample ID: DewBurd GW615

Report Date: 01/27/09
 Collection Date: 12/17/08 11:27
 Date Received: 12/18/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	01/21/09 23:27/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1 E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - TOTAL							
Radon 222	1710	pCi/L		100		1 D5072-92	12/19/08 15:40/eli-c
Radon 222 precision (±)	68.2	pCi/L				1 D5072-92	12/19/08 15:40/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	12/30/08 03:19/eli-c
Arsenic	0.023	mg/L		0.001		1 E200.8	12/30/08 03:19/eli-c
Barium	ND	mg/L		0.1		1 E200.8	12/30/08 03:19/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	01/01/09 23:32/eli-c
Boron	0.1	mg/L		0.1		2 E200.7	01/05/09 18:36/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	12/30/08 03:19/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	12/30/08 03:19/eli-c
Copper	ND	mg/L		0.01		1 E200.8	12/30/08 03:19/eli-c
Iron	1.37	mg/L		0.03		2 E200.7	01/05/09 18:36/eli-c
Lead	ND	mg/L		0.001		1 E200.8	12/30/08 03:19/eli-c
Manganese	0.06	mg/L		0.01		1 E200.8	12/30/08 03:19/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	12/26/08 15:47/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	01/01/09 23:32/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	12/30/08 03:19/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	12/30/08 03:19/eli-c
Silver	ND	mg/L		0.005		1 E200.8	01/01/09 23:32/eli-c
Strontium	1.3	mg/L		0.1		1 E200.8	12/30/08 03:19/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	12/30/08 03:19/eli-c
Uranium	0.0023	mg/L		0.0003		1 E200.8	12/30/08 03:19/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	01/12/09 18:25/eli-c
DATA QUALITY							
A/C Balance (± 5)	1.01	%				1 A1030 E	01/23/09 00:00/jmh
Anions	11.0	meq/L				1 A1030 E	01/23/09 00:00/jmh
Cations	11.3	meq/L				1 A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	735	mg/L				1 A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.950					1 A1030 E	01/23/09 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 081223A-ALK-SEL-W	
Sample ID: LCS1_081223A	Laboratory Control Sample					Run: PH_COND1-R_081223A			12/23/08 09:08
Alkalinity, Total as CaCO3	936	mg/L	5.0	94	90	110			
Sample ID: MBLK1_081223A	Method Blank					Run: PH_COND1-R_081223A			12/23/08 09:09
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08120249-005AMS	Sample Matrix Spike					Run: PH_COND1-R_081223A			12/23/08 09:47
Alkalinity, Total as CaCO3	382	mg/L	5.0	96	80	120			
Sample ID: R08120249-005AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_081223A			12/23/08 09:50
Alkalinity, Total as CaCO3	380	mg/L	5.0	94	80	120	0.5	10	
Sample ID: R08120255-006AMS	Sample Matrix Spike					Run: PH_COND1-R_081223A			12/23/08 10:40
Alkalinity, Total as CaCO3	182	mg/L	5.0	64	80	120			S
Sample ID: R08120255-006AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_081223A			12/23/08 10:52
Alkalinity, Total as CaCO3	198	mg/L	5.0	79	80	120	8.4	10	S
Method: A2510 B								Batch: 081219_1_COND-PROBE-W	
Sample ID: LCS_COND-1_081219	Laboratory Control Sample					Run: PH_COND2-R_081219B			12/19/08 08:44
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_081219	Laboratory Control Sample					Run: PH_COND2-R_081219B			12/19/08 08:45
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_081219	Laboratory Control Sample					Run: PH_COND2-R_081219B			12/19/08 08:47
Conductivity @ 25 C	4960	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_081219	Method Blank					Run: PH_COND2-R_081219B			12/19/08 08:48
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08120255-001ADUP	Sample Duplicate					Run: PH_COND2-R_081219B			12/19/08 09:03
Conductivity @ 25 C	ND	umhos/cm	5.0				0	10	
Sample ID: R08120255-011ADUP	Sample Duplicate					Run: PH_COND2-R_081219B			12/19/08 09:18
Conductivity @ 25 C	1320	umhos/cm	5.0				0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 081222A-SLDS-TDS-W		
Sample ID: LCS1_081222A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	200	mg/L	7.6	99	90	110			12/22/08 11:36
Sample ID: MBLK1_081222A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	8						12/22/08 11:38
Sample ID: R08120255-013AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	880	mg/L	5.0	91	80	120			12/22/08 12:20
Sample ID: R08120255-013AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	850	mg/L	5.0	76	80	120	3.5	10	S
Method: A2580 B							Batch: 081223-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample								
Oxidation-Reduction Potential	480	mV		101	95	105			12/23/08 14:30
Sample ID: R08120255-001F	Sample Duplicate								
Oxidation-Reduction Potential	290	mV					0.8	10	12/23/08 14:30
Sample ID: R08120255-011F	Sample Duplicate								
Oxidation-Reduction Potential	270	mV					0.3	10	12/23/08 14:30
Method: A3114 B							Batch: C_SE3114-090109B		
Sample ID: MBLK	Method Blank								
Selenium	ND	mg/L	0.0003						01/09/09 15:31
Sample ID: 288-184-2	Laboratory Control Sample								
Selenium	0.055	mg/L	0.0010	109	90	110			01/09/09 15:33
Sample ID: R08120255-011E	Sample Matrix Spike								
Selenium	0.057	mg/L	0.0010	113	85	115			01/09/09 16:12
Sample ID: R08120255-011E	Sample Matrix Spike Duplicate								
Selenium	0.058	mg/L	0.0010	116	85	115	2.5	15	S
Sample ID: R08120255-001E	Sample Matrix Spike								
Selenium	0.055	mg/L	0.0010	110	85	115			01/09/09 15:40
Sample ID: R08120255-001E	Sample Matrix Spike Duplicate								
Selenium	0.057	mg/L	0.0010	113	85	115	2.8	15	01/09/09 15:42

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SEIV3114-090108		
Sample ID: MBLK	Method Blank					Run: SUB-C113187			01/08/09 14:58
Selenium-IV	ND	mg/L	0.0003						
Sample ID: 288-184-2	Laboratory Control Sample					Run: SUB-C113187			01/08/09 15:00
Selenium-IV	0.050	mg/L	0.0010	100	90	110			
Sample ID: R08120255-011E	Sample Matrix Spike					Run: SUB-C113187			01/08/09 15:42
Selenium-IV	0.042	mg/L	0.0010	84	85	115			S
Sample ID: R08120255-011E	Sample Matrix Spike Duplicate					Run: SUB-C113187			01/08/09 15:44
Selenium-IV	0.044	mg/L	0.0010	87	85	115	4.4	10	
Sample ID: R08120255-001E	Sample Matrix Spike					Run: SUB-C113187			01/08/09 15:07
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: R08120255-001E	Sample Matrix Spike Duplicate					Run: SUB-C113187			01/08/09 15:10
Selenium-IV	0.046	mg/L	0.0010	93	85	115	0.8	10	
Method: A4500-H B							Batch: 081219_1_PH-W		
Sample ID: LCS_pH-1_081219	Laboratory Control Sample					Run: PH_COND2-R_081219A			12/19/08 09:45
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R08120255-001ADUP	Sample Duplicate					Run: PH_COND2-R_081219A			12/19/08 10:20
pH	5.64	s.u.	0.010				0.5	1.25	
Sample ID: R08120255-011ADUP	Sample Duplicate					Run: PH_COND2-R_081219A			12/19/08 10:41
pH	7.72	s.u.	0.010				0.3	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2008-12-26_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_081226A			12/26/08 14:12
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	98	90	110			12/26/08 14:13
						Run: TECHAA2-R_081226A			12/26/08 14:14
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.27	mg/L	0.10	110	90	110			12/26/08 14:14
						Run: TECHAA2-R_081226A			12/26/08 14:53
Sample ID: R08120255-002BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.34	mg/L	0.10	111	80	120			12/26/08 14:53
						Run: TECHAA2-R_081226A			12/26/08 14:54
Sample ID: R08120255-002BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.34	mg/L	0.10	111	80	120	0.3	10	12/26/08 14:54
						Run: TECHAA2-R_081226A			12/26/08 15:07
Sample ID: R08120255-010BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.42	mg/L	0.10	100	80	120			12/26/08 15:07
						Run: TECHAA2-R_081226A			12/26/08 15:08
Sample ID: R08120255-010BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.45	mg/L	0.10	109	80	120	5.3	10	12/26/08 15:08
						Run: TECHAA2-R_081226A			
Method: D5072-92							Batch: C_R112582		
Sample ID: R08120255-013G Radon 222	Sample Duplicate 1650	pCi/L	100				4.1	30	12/19/08 15:40
						Run: SUB-C112582			12/19/08 15:40
Sample ID: MB-R112582 Radon 222	Method Blank 30	pCi/L							U
						Run: SUB-C112582			12/19/08 15:40
Sample ID: LCS-R112582 Radon 222	Laboratory Control Sample 304	pCi/L	100	90	70	130			12/19/08 15:40

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_20978		
Sample ID: MB-20978	Method Blank				Run: SUB-C113039		01/05/09 19:00		
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-20978	Laboratory Control Sample				Run: SUB-C113039		01/05/09 19:04		
Boron	0.516	mg/L	0.10	103	85	115			
Iron	2.57	mg/L	0.030	103	85	115			
Sample ID: C08120822-001BMS3	Sample Matrix Spike				Run: SUB-C113039		01/05/09 19:29		
Boron	0.658	mg/L	0.10	104	70	130			
Iron	3.53	mg/L	0.030	110	70	130			
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C113039		01/05/09 19:33		
Boron	0.647	mg/L	0.10	102	70	130	1.7	20	
Iron	3.34	mg/L	0.030	102	70	130	5.4	20	
Method: E200.7							Batch: C_20993		
Sample ID: MB-20993	Method Blank				Run: SUB-C113039		01/05/09 19:49		
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-20993	Laboratory Control Sample				Run: SUB-C113039		01/05/09 19:53		
Boron	0.533	mg/L	0.10	107	85	115			
Iron	2.64	mg/L	0.030	106	85	115			
Sample ID: C08120862-001BMS3	Sample Matrix Spike				Run: SUB-C113039		01/05/09 20:17		
Boron	1.42	mg/L	0.10	101	70	130			
Iron	33.4	mg/L	0.030		70	130			A
Sample ID: C08120862-001BMSD3	Sample Matrix Spike Duplicate				Run: SUB-C113039		01/05/09 20:21		
Boron	1.51	mg/L	0.10	119	70	130	6	20	
Iron	34.1	mg/L	0.030		70	130	2.3	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R113039		
Sample ID: MB-090105A	Method Blank			Run: SUB-C113039			01/05/09 12:11		
Silicon	ND	mg/L	0.02						
Boron	0.02	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Silica	ND	mg/L	0.04						
Sample ID: LFB-0090105A	Laboratory Fortified Blank			Run: SUB-C113039			01/05/09 12:15		
Silicon	0.38	mg/L	0.021	96	85	125			
Boron	1.1	mg/L	0.10	105	85	125			
Calcium	50	mg/L	0.50	99	85	125			
Iron	1.0	mg/L	0.030	101	85	125			
Magnesium	50	mg/L	0.50	100	85	125			
Potassium	47	mg/L	0.50	94	85	125			
Sodium	49	mg/L	0.77	99	85	125			
Silica	0.82	mg/L	0.044	96	85	125			
Sample ID: R08120255-012D	Sample Matrix Spike			Run: SUB-C113039			01/05/09 18:28		
Boron	2.19	mg/L	0.10	105	70	130			
Iron	2.20	mg/L	0.030	102	70	130			
Silicon	5.43	mg/L	0.10		70	130			A
Calcium	136	mg/L	1.0	105	70	130			
Magnesium	116	mg/L	1.0	106	70	130			
Potassium	102	mg/L	1.0	93	70	130			
Sodium	394	mg/L	1.1	102	70	130			
Silica	11.6	mg/L	0.21		70	130			A
Sample ID: R08120255-012D	Sample Matrix Spike Duplicate			Run: SUB-C113039			01/05/09 18:32		
Boron	2.26	mg/L	0.10	109	70	130	3.2	20	
Iron	2.28	mg/L	0.030	106	70	130	3.5	20	
Silicon	5.59	mg/L	0.10		70	130	2.9	20	A
Calcium	137	mg/L	1.0	106	70	130	1	20	
Magnesium	118	mg/L	1.0	107	70	130	1.4	20	
Potassium	103	mg/L	1.0	94	70	130	1	20	
Sodium	412	mg/L	1.1	120	70	130	4.5	20	
Silica	12.0	mg/L	0.21		70	130	2.9	20	A
Sample ID: C08120680-001BMS2	Sample Matrix Spike			Run: SLJB-C113039			01/05/09 12:23		
Boron	2.45	mg/L	0.10	107	70	130			
Iron	11.4	mg/L	0.030		70	130			A
Silicon	6.58	mg/L	0.10		70	130			A
Calcium	501	mg/L	1.0	109	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R113039		
Sample ID: C08120680-001BMS2	Sample Matrix Spike			Run: SUB-C113039			01/05/09 12:23		
Magnesium	204	mg/L	1.0	105	70	130			
Potassium	103	mg/L	1.0	91	70	130			
Sodium	873	mg/L	1.5		70	130			A
Silica	14.1	mg/L	0.21		70	130			A
Sample ID: C08120680-001BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C113039			01/05/09 12:27		
Boron	2.44	mg/L	0.10	107	70	130	0.3	20	
Iron	11.4	mg/L	0.030		70	130	0.5	20	A
Silicon	6.56	mg/L	0.10		70	130	0.2	20	A
Calcium	494	mg/L	1.0	103	70	130	1.2	20	
Magnesium	203	mg/L	1.0	104	70	130	0.6	20	
Potassium	102	mg/L	1.0	90	70	130	1.2	20	
Sodium	871	mg/L	1.5		70	130	0.2	20	A
Silica	14.0	mg/L	0.21		70	130	0.2	20	A
Sample ID: R08120255-009C	Sample Matrix Spike			Run: SUB-C113039			01/05/09 13:28		
Boron	2.29	mg/L	0.10	111	70	130			
Iron	2.15	mg/L	0.030	106	70	130			
Silicon	5.21	mg/L	0.10		70	130			A
Calcium	158	mg/L	1.0	104	70	130			
Magnesium	124	mg/L	1.0	106	70	130			
Potassium	98.7	mg/L	1.0	90	70	130			
Sodium	304	mg/L	1.5	94	70	130			
Silica	11.1	mg/L	0.21		70	130			A
Sample ID: R08120255-009C	Sample Matrix Spike Duplicate			Run: SUB-C113039			01/05/09 13:32		
Boron	2.25	mg/L	0.10	109	70	130	1.9	20	
Iron	2.14	mg/L	0.030	106	70	130	0.4	20	
Silicon	5.07	mg/L	0.10		70	130	2.7	20	A
Calcium	154	mg/L	1.0	101	70	130	2.2	20	
Magnesium	121	mg/L	1.0	104	70	130	2.2	20	
Potassium	102	mg/L	1.0	93	70	130	3.1	20	
Sodium	318	mg/L	1.5	108	70	130	4.5	20	
Silica	10.8	mg/L	0.21		70	130	2.7	20	A
Sample ID: C08120680-001DMS2	Sample Matrix Spike			Run: SUB-C113039			01/05/09 16:38		
Boron	2.35	mg/L	0.10	105	70	130			
Iron	11.0	mg/L	0.030		70	130			A
Silicon	6.35	mg/L	0.10		70	130			A
Calcium	485	mg/L	1.0	95	70	130			
Magnesium	202	mg/L	1.0	102	70	130			
Potassium	101	mg/L	1.0	88	70	130			
Sodium	845	mg/L	1.1		70	130			A
Silica	13.6	mg/L	0.21		70	130			A

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R113039		
Sample ID: C08120680-001DMS2	Sample Matrix Spike			Run: SUB-C113039			01/05/09 16:38		
Sample ID: C08120680-001DMSD2	Sample Matrix Spike Duplicate			Run: SUB-C113039			01/05/09 16:42		
Boron	2.36	mg/L	0.10	106	70	130	0.4	20	
Iron	11.3	mg/L	0.030		70	130	2.4	20	A
Silicon	6.44	mg/L	0.10		70	130	1.3	20	A
Calcium	488	mg/L	1.0	98	70	130	0.6	20	
Magnesium	203	mg/L	1.0	104	70	130	0.6	20	
Potassium	103	mg/L	1.0	91	70	130	2.1	20	
Sodium	861	mg/L	1.1		70	130	2	20	A
Silica	13.8	mg/L	0.21		70	130	1.3	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20978		
Sample ID: MB-20978	Method Blank		Run: SUB-C112889				12/30/08 19:20		
Antimony	0.0002	mg/L				7E-05			
Arsenic	0.003	mg/L				6E-05			
Barium	ND	mg/L				3E-05			
Beryllium	3E-05	mg/L				3E-05			
Cadmium	ND	mg/L				1E-05			
Chromium	0.004	mg/L				4E-05			
Copper	0.0007	mg/L				7E-05			
Lead	ND	mg/L				3E-05			
Manganese	0.0001	mg/L				5E-05			
Molybdenum	8E-05	mg/L				5E-05			
Nickel	ND	mg/L				0.0007			
Selenium	ND	mg/L				0.0002			
Silver	0.0002	mg/L				3E-05			
Strontium	ND	mg/L				3E-05			
Thallium	0.0004	mg/L				1E-05			
Uranium	3E-05	mg/L				1E-05			
Zinc	0.0009	mg/L				0.0003			
Sample ID: MB-20978	Method Blank		Run: SUB-C112947				01/01/09 17:07		
Antimony	0.0009	mg/L				0.0002			
Arsenic	0.003	mg/L				5E-05			
Barium	ND	mg/L				9E-05			
Beryllium	ND	mg/L				0.0001			
Cadmium	ND	mg/L				3E-05			
Chromium	0.002	mg/L				5E-05			
Copper	0.002	mg/L				0.0002			
Lead	ND	mg/L				5E-05			
Manganese	6E-05	mg/L				3E-05			
Molybdenum	ND	mg/L				5E-05			
Nickel	0.0004	mg/L				6E-05			
Selenium	0.0007	mg/L				0.0002			
Silver	ND	mg/L				4E-05			
Strontium	ND	mg/L				8E-05			
Thallium	ND	mg/L				3E-05			
Uranium	ND	mg/L				3E-05			
Zinc	0.0008	mg/L				0.0003			
Sample ID: LCS3-20978	Laboratory Control Sample		Run: SUB-C112947				01/01/09 17:13		
Antimony	0.559	mg/L	0.050	112	85	115			
Arsenic	0.515	mg/L	0.0010	102	85	115			
Barium	0.519	mg/L	0.10	104	85	115			
Beryllium	0.256	mg/L	0.010	102	85	115			
Cadmium	0.254	mg/L	0.010	102	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20978		
Sample ID: LCS3-20978	Laboratory Control Sample			Run: SUB-C112947			01/01/09 17:13		
Chromium	0.528	mg/L	0.050	105	85	115			
Copper	0.486	mg/L	0.010	97	85	115			
Lead	0.512	mg/L	0.050	102	85	115			
Manganese	2.65	mg/L	0.010	106	85	115			
Molybdenum	0.536	mg/L	0.10	107	85	115			
Nickel	0.479	mg/L	0.050	96	85	115			
Selenium	0.517	mg/L	0.0010	103	85	115			
Silver	0.0485	mg/L	0.010	97	85	115			
Strontium	0.538	mg/L	0.10	108	85	115			
Thallium	0.535	mg/L	0.10	107	85	115			
Uranium	0.538	mg/L	0.00030	108	85	115			
Zinc	0.489	mg/L	0.010	98	85	115			
Sample ID: C08120822-001BMS3	Sample Matrix Spike			Run: SUB-C112947			01/01/09 18:14		
Antimony	0.604	mg/L	0.050	114	70	130			
Arsenic	0.514	mg/L	0.0010	102	70	130			
Barium	0.647	mg/L	0.10	106	70	130			
Beryllium	0.242	mg/L	0.010	97	70	130			
Cadmium	0.252	mg/L	0.010	99	70	130			
Chromium	0.528	mg/L	0.050	101	70	130			
Copper	1.69	mg/L	0.010	103	70	130			
Lead	0.509	mg/L	0.050	84	70	130			
Manganese	2.60	mg/L	0.010	102	70	130			
Molybdenum	0.553	mg/L	0.10	109	70	130			
Nickel	0.494	mg/L	0.050	95	70	130			
Selenium	0.504	mg/L	0.0010	98	70	130			
Silver	0.0619	mg/L	0.010	108	70	130			
Strontium	0.911	mg/L	0.10	105	70	130			
Thallium	0.417	mg/L	0.10	83	70	130			
Uranium	0.459	mg/L	0.00030	90	70	130			
Zinc	2.84	mg/L	0.010		70	130			A
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C112947			01/01/09 18:21		
Antimony	0.599	mg/L	0.050	113	70	130	0.9	20	
Arsenic	0.512	mg/L	0.0010	102	70	130	0.5	20	
Barium	0.644	mg/L	0.10	105	70	130	0.5	20	
Beryllium	0.245	mg/L	0.010	98	70	130	1.1	20	
Cadmium	0.251	mg/L	0.010	99	70	130	0.5	20	
Chromium	0.524	mg/L	0.050	100	70	130	0.8	20	
Copper	1.67	mg/L	0.010	98	70	130	1.4	20	
Lead	0.505	mg/L	0.050	84	70	130	0.7	20	
Manganese	2.56	mg/L	0.010	101	70	130	1.2	20	
Molybdenum	0.548	mg/L	0.10	108	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20978		
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C112947			01/01/09 18:21		
Nickel	0.490	mg/L	0.050	94	70	130	0.9	20	
Selenium	0.498	mg/L	0.0010	97	70	130	1.1	20	
Silver	0.0564	mg/L	0.010	97	70	130	9.2	20	
Strontium	0.892	mg/L	0.10	101	70	130	2.1	20	
Thallium	0.413	mg/L	0.10	83	70	130	1.1	20	
Uranium	0.455	mg/L	0.00030	89	70	130	0.8	20	
Zinc	2.84	mg/L	0.010		70	130	0.2	20	A
Method: E200.8							Batch: C_20988		
Sample ID: MB-20988	Method Blank			Run: SUB-C112968			01/01/09 21:17		
Uranium	ND	mg/L	0.004						
Sample ID: LCS1-20988	Laboratory Control Sample			Run: SUB-C112968			01/01/09 21:21		
Uranium	0.0977	mg/L	0.0037	98	80	120			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20993		
Sample ID: MB-20993	Method Blank		Run: SUB-C112947			01/01/09 18:34			
Arsenic	0.002	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.0008	mg/L	0.0002						
Lead	7E-05	mg/L	5E-05						
Manganese	0.0002	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	0.0001	mg/L	6E-05						
Selenium	0.001	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	0.0004	mg/L	3E-05						
Uranium	0.0002	mg/L	3E-05						
Zinc	0.005	mg/L	0.0003						
Sample ID: LCS3-20993	Laboratory Control Sample		Run: SUB-C112947			01/01/09 18:41			
Arsenic	0.536	mg/L	0.0010	107	85	115			
Barium	0.548	mg/L	0.10	110	85	115			
Beryllium	0.257	mg/L	0.010	103	85	115			
Cadmium	0.267	mg/L	0.010	107	85	115			
Chromium	0.550	mg/L	0.050	110	85	115			
Copper	0.508	mg/L	0.010	101	85	115			
Lead	0.546	mg/L	0.050	109	85	115			
Manganese	2.78	mg/L	0.010	111	85	115			
Molybdenum	0.560	mg/L	0.10	112	85	115			
Nickel	0.504	mg/L	0.050	101	85	115			
Selenium	0.537	mg/L	0.0010	107	85	115			
Silver	0.0507	mg/L	0.010	101	85	115			
Strontium	0.560	mg/L	0.10	112	85	115			
Thallium	0.555	mg/L	0.10	111	85	115			
Uranium	0.568	mg/L	0.00030	113	85	115			
Zinc	0.516	mg/L	0.010	102	85	115			
Sample ID: C08120862-001BMS3	Sample Matrix Spike		Run: SUB-C112947			01/01/09 20:09			
Arsenic	0.528	mg/L	0.0010	102	70	130			
Barium	4.61	mg/L	0.10		70	130			A
Beryllium	0.240	mg/L	0.010	96	70	130			
Cadmium	0.254	mg/L	0.010	98	70	130			
Chromium	0.551	mg/L	0.050	98	70	130			
Copper	0.903	mg/L	0.010	93	70	130			
Lead	0.647	mg/L	0.050	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20993		
Sample ID: C08120862-001BMS3		Sample Matrix Spike		Run: SUB-C112947			01/01/09 20:09		
Manganese	3.19	mg/L	0.010	99	70	130			
Molybdenum	0.682	mg/L	0.10	109	70	130			
Nickel	0.516	mg/L	0.050	94	70	130			
Selenium	0.372	mg/L	0.0010	74	70	130			
Silver	0.0470	mg/L	0.010	93	70	130			
Strontium	1.18	mg/L	0.10	106	70	130			
Thallium	0.528	mg/L	0.10	106	70	130			
Uranium	0.582	mg/L	0.00030	114	70	130			
Zinc	3.43	mg/L	0.010		70	130			A
Sample ID: C08120862-001BMSD3		Sample Matrix Spike Duplicate		Run: SUB-C112947			01/01/09 20:15		
Arsenic	0.530	mg/L	0.0010	102	70	130	0.3	20	
Barium	4.96	mg/L	0.10		70	130	7.3	20	A
Beryllium	0.231	mg/L	0.010	92	70	130	3.9	20	
Cadmium	0.253	mg/L	0.010	97	70	130	0.4	20	
Chromium	0.534	mg/L	0.050	95	70	130	3.1	20	
Copper	0.931	mg/L	0.010	99	70	130	3	20	
Lead	0.645	mg/L	0.050	105	70	130	0.3	20	
Manganese	3.07	mg/L	0.010	94	70	130	3.8	20	
Molybdenum	0.684	mg/L	0.10	109	70	130	0.2	20	
Nickel	0.518	mg/L	0.050	94	70	130	0.4	20	
Selenium	0.370	mg/L	0.0010	74	70	130	0.6	20	
Silver	0.0472	mg/L	0.010	94	70	130	0.6	20	
Strontium	1.18	mg/L	0.10	105	70	130	0.5	20	
Thallium	0.528	mg/L	0.10	106	70	130	0.1	20	
Uranium	0.574	mg/L	0.00030	112	70	130	1.5	20	
Zinc	3.26	mg/L	0.010		70	130	5.2	20	A
Sample ID: C08120862-001BMS3		Sample Matrix Spike		Run: SUB-C113003			01/02/09 18:44		
Arsenic	0.540	mg/L	0.0010	104	70	130			
Barium	4.49	mg/L	0.10		70	130			A
Beryllium	0.248	mg/L	0.010	99	70	130			
Cadmium	0.269	mg/L	0.010	104	70	130			
Chromium	0.575	mg/L	0.050	101	70	130			
Copper	0.935	mg/L	0.010	94	70	130			
Lead	0.643	mg/L	0.050	105	70	130			
Manganese	3.41	mg/L	0.010	107	70	130			
Molybdenum	0.670	mg/L	0.10	107	70	130			
Nickel	0.534	mg/L	0.050	97	70	130			
Selenium	0.424	mg/L	0.0020	85	70	130			
Silver	0.0477	mg/L	0.010	95	70	130			
Strontium	1.22	mg/L	0.10	111	70	130			
Thallium	0.509	mg/L	0.10	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20993		
Sample ID: C08120862-001BMS3	Sample Matrix Spike			Run: SUB-C113003			01/02/09 18:44		
Uranium	0.559	mg/L	0.00032	109	70	130			
Zinc	3.70	mg/L	0.010		70	130			A
Sample ID: C08120862-001BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C113003			01/02/09 18:51		
Arsenic	0.533	mg/L	0.0010	102	70	130	1.2	20	
Barium	4.78	mg/L	0.10		70	130	6.2	20	A
Beryllium	0.239	mg/L	0.010	96	70	130	3.8	20	
Cadmium	0.265	mg/L	0.010	102	70	130	1.7	20	
Chromium	0.563	mg/L	0.050	99	70	130	2.2	20	
Copper	0.936	mg/L	0.010	95	70	130	0.1	20	
Lead	0.632	mg/L	0.050	102	70	130	1.7	20	
Manganese	3.32	mg/L	0.010	103	70	130	2.8	20	
Molybdenum	0.658	mg/L	0.10	105	70	130	1.8	20	
Nickel	0.527	mg/L	0.050	96	70	130	1.3	20	
Selenium	0.403	mg/L	0.0020	81	70	130	5	20	
Silver	0.0476	mg/L	0.010	95	70	130	0.3	20	
Strontium	1.18	mg/L	0.10	104	70	130	2.8	20	
Thallium	0.509	mg/L	0.10	102	70	130	0	20	
Uranium	0.545	mg/L	0.00032	106	70	130	2.5	20	
Zinc	3.35	mg/L	0.010		70	130	9.7	20	A
Sample ID: MB-20993	Method Blank			Run: SUB-C113003			01/03/09 05:09		
Copper	0.001	mg/L	7E-05						
Lead	0.00010	mg/L	3E-05						
Sample ID: LCS3-20993	Laboratory Control Sample			Run: SUB-C113003			01/03/09 05:15		
Arsenic	0.525	mg/L	0.0010	104	85	115			
Barium	0.534	mg/L	0.10	107	85	115			
Beryllium	0.268	mg/L	0.010	107	85	115			
Cadmium	0.272	mg/L	0.010	109	85	115			
Chromium	0.540	mg/L	0.050	108	85	115			
Copper	0.510	mg/L	0.010	102	85	115			
Lead	0.540	mg/L	0.050	108	85	115			
Manganese	2.77	mg/L	0.010	111	85	115			
Molybdenum	0.550	mg/L	0.10	110	85	115			
Nickel	0.512	mg/L	0.050	102	85	115			
Selenium	0.509	mg/L	0.0010	102	85	115			
Silver	0.0512	mg/L	0.010	102	85	115			
Strontium	0.546	mg/L	0.10	109	85	115			
Thallium	0.538	mg/L	0.10	108	85	115			
Uranium	0.560	mg/L	0.00030	112	85	115			
Sample ID: MB-20993	Method Blank			Run: SUB-C113238			01/08/09 17:02		
Arsenic	0.002	mg/L	6E-05						

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20993		
Sample ID: MB-20993	Method Blank		Run: SUB-C113238			01/08/09 17:02			
Barium	ND	mg/L	4E-05						
Beryllium	ND	mg/L	0.0002						
Cadmium	ND	mg/L	2E-05						
Chromium	0.0006	mg/L	6E-05						
Copper	0.0001	mg/L	3E-05						
Lead	7E-05	mg/L	5E-05						
Manganese	5E-05	mg/L	2E-05						
Molybdenum	5E-05	mg/L	4E-05						
Nickel	5E-05	mg/L	3E-05						
Selenium	ND	mg/L	0.0005						
Silver	ND	mg/L	2E-05						
Strontium	ND	mg/L	5E-06						
Thallium	0.003	mg/L	4E-05						
Uranium	0.0001	mg/L	5E-05						
Zinc	0.005	mg/L	0.0005						
Sample ID: LCS3-20993	Laboratory Control Sample		Run: SUB-C113238			01/08/09 17:08			
Arsenic	0.541	mg/L	0.0010	108	85	115			
Barium	0.539	mg/L	0.10	108	85	115			
Beryllium	0.279	mg/L	0.010	111	85	115			
Cadmium	0.277	mg/L	0.010	111	85	115			
Chromium	0.553	mg/L	0.050	110	85	115			
Copper	0.545	mg/L	0.010	109	85	115			
Lead	0.536	mg/L	0.050	107	85	115			
Manganese	2.60	mg/L	0.010	104	85	115			
Molybdenum	0.539	mg/L	0.10	108	85	115			
Nickel	0.535	mg/L	0.050	107	85	115			
Selenium	0.537	mg/L	0.0010	107	85	115			
Silver	0.0527	mg/L	0.010	105	85	115			
Strontium	0.545	mg/L	0.10	109	85	115			
Thallium	0.528	mg/L	0.10	105	85	115			
Uranium	0.542	mg/L	0.00030	108	85	115			
Zinc	0.531	mg/L	0.010	105	85	115			
Sample ID: C08120862-001BMS3	Sample Matrix Spike		Run: SUB-C113238			01/08/09 17:35			
Arsenic	0.505	mg/L	0.0010	97	70	130			
Barium	4.38	mg/L	0.10		70	130			A
Beryllium	0.219	mg/L	0.010	87	70	130			
Cadmium	0.247	mg/L	0.010	95	70	130			
Chromium	0.598	mg/L	0.050	107	70	130			
Copper	0.958	mg/L	0.010	99	70	130			
Lead	0.658	mg/L	0.050	107	70	130			
Manganese	3.20	mg/L	0.010	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20993		
Sample ID: C08120862-001BMS3	Sample Matrix Spike		Run: SUB-C113238			01/08/09 17:35			
Molybdenum	0.655	mg/L	0.10	105	70	130			
Nickel	0.536	mg/L	0.050	98	70	130			
Selenium	0.359	mg/L	0.0010	71	70	130			
Silver	0.0464	mg/L	0.010	92	70	130			
Strontium	1.20	mg/L	0.10	109	70	130			
Thallium	0.530	mg/L	0.10	105	70	130			
Uranium	0.579	mg/L	0.00030	113	70	130			
Zinc	3.21	mg/L	0.010		70	130			A
Sample ID: C08120862-001BMSD3	Sample Matrix Spike Duplicate		Run: SUB-C113238			01/08/09 17:42			
Arsenic	0.500	mg/L	0.0010	97	70	130	0.8	20	
Barium	4.71	mg/L	0.10		70	130	7.3	20	A
Beryllium	0.208	mg/L	0.010	83	70	130	5.1	20	
Cadmium	0.245	mg/L	0.010	94	70	130	0.9	20	
Chromium	0.594	mg/L	0.050	106	70	130	0.6	20	
Copper	0.956	mg/L	0.010	98	70	130	0.2	20	
Lead	0.660	mg/L	0.050	107	70	130	0.3	20	
Manganese	3.16	mg/L	0.010	98	70	130	1.4	20	
Molybdenum	0.647	mg/L	0.10	103	70	130	1.2	20	
Nickel	0.530	mg/L	0.050	97	70	130	1.1	20	
Selenium	0.355	mg/L	0.0010	70	70	130	1.2	20	
Silver	0.0458	mg/L	0.010	91	70	130	1.4	20	
Strontium	1.20	mg/L	0.10	108	70	130	0.3	20	
Thallium	0.538	mg/L	0.10	107	70	130	1.6	20	
Uranium	0.583	mg/L	0.00030	114	70	130	0.6	20	
Zinc	2.90	mg/L	0.010		70	130	9.9	20	A
Method: E200.8							Batch: C_21089		
Sample ID: MB-21089	Method Blank		Run: SUB-C113412			01/14/09 13:12			
Antimony	0.0004	mg/L	0.0002						
Sample ID: LCS3-21089	Laboratory Control Sample		Run: SUB-C113412			01/14/09 13:18			
Antimony	0.614	mg/L	0.050	123	85	115			S
Sample ID: C09010316-001BMS3	Sample Matrix Spike		Run: SUB-C113412			01/14/09 15:22			
Antimony	0.619	mg/L	0.050	123	70	130			
Sample ID: C09010316-001BMSD3	Sample Matrix Spike Duplicate		Run: SUB-C113412			01/14/09 15:28			
Antimony	0.628	mg/L	0.050	125	70	130	1.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R112759		
Sample ID: LRB	Method Blank		Run: SUB-C112759				12/26/08 11:23		
Aluminum	ND	mg/L	0.0001						
Arsenic	0.0004	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	3E-05	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	7E-05	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.0004	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C112759				12/26/08 11:30		
Aluminum	0.0504	mg/L	0.0010	101	85	115			
Arsenic	0.0511	mg/L	0.0010	102	85	115			
Barium	0.0497	mg/L	0.0010	99	85	115			
Cadmium	0.0499	mg/L	0.0010	100	85	115			
Chromium	0.0511	mg/L	0.0010	102	85	115			
Copper	0.0518	mg/L	0.0010	104	85	115			
Lead	0.0503	mg/L	0.0010	101	85	115			
Manganese	0.0511	mg/L	0.0010	102	85	115			
Mercury	0.00524	mg/L	0.0010	105	85	115			
Molybdenum	0.0513	mg/L	0.0010	103	85	115			
Nickel	0.0517	mg/L	0.0010	103	85	115			
Silver	0.0202	mg/L	0.0010	101	85	115			
Thorium 232	0.0495	mg/L	0.0010	99	85	115			
Uranium	0.0495	mg/L	0.00030	99	85	115			
Vanadium	0.0511	mg/L	0.0010	102	85	115			
Zinc	0.0528	mg/L	0.0010	104	85	115			
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C112759				12/26/08 15:55		
Aluminum	0.0461	mg/L	0.0010	92	85	115			
Arsenic	0.0483	mg/L	0.0010	96	85	115			
Barium	0.0486	mg/L	0.0010	97	85	115			
Cadmium	0.0485	mg/L	0.0010	97	85	115			
Chromium	0.0493	mg/L	0.0010	99	85	115			
Copper	0.0497	mg/L	0.0010	99	85	115			
Lead	0.0494	mg/L	0.0010	99	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R112759		
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C112759			12/26/08 15:55		
Manganese	0.0497	mg/L	0.0010	99	85	115			
Mercury	0.00522	mg/L	0.0010	104	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0497	mg/L	0.0010	99	85	115			
Silver	0.0189	mg/L	0.0010	94	85	115			
Thorium 232	0.0496	mg/L	0.0010	99	85	115			
Uranium	0.0498	mg/L	0.00030	100	85	115			
Vanadium	0.0490	mg/L	0.0010	98	85	115			
Zinc	0.0504	mg/L	0.0010	100	85	115			
Sample ID: R08120255-010C	Post Digestion Spike			Run: SUB-C112759			12/26/08 19:39		
Aluminum	0.0422	mg/L	0.10	84	70	130			
Arsenic	0.0499	mg/L	0.0010	99	70	130			
Barium	0.0584	mg/L	0.10	98	70	130			
Cadmium	0.0497	mg/L	0.010	99	70	130			
Chromium	0.0498	mg/L	0.050	98	70	130			
Copper	0.0462	mg/L	0.010	92	70	130			
Lead	0.0505	mg/L	0.050	101	70	130			
Manganese	0.136	mg/L	0.010	103	70	130			
Mercury	0.00551	mg/L	0.0010	110	70	130			
Molybdenum	0.0557	mg/L	0.10	103	70	130			
Nickel	0.0461	mg/L	0.050	92	70	130			
Silver	0.0169	mg/L	0.010	85	70	130			
Thorium 232	0.0495	mg/L	0.0010	99	70	130			
Uranium	0.0508	mg/L	0.00030	96	70	130			
Vanadium	0.0512	mg/L	0.10	102	70	130			
Zinc	0.0538	mg/L	0.010	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R112871		
Sample ID: LRB	Method Blank		Run: SUB-C112871			12/29/08 19:45			
Antimony	0.0004	mg/L	0.0003						
Arsenic	ND	mg/L	2E-05						
Barium	ND	mg/L	2E-05						
Cadmium	1E-05	mg/L	8E-06						
Chromium	ND	mg/L	2E-05						
Copper	ND	mg/L	1E-05						
Lead	ND	mg/L	1E-05						
Manganese	ND	mg/L	2E-05						
Nickel	ND	mg/L	2E-05						
Selenium	ND	mg/L	4E-05						
Strontium	ND	mg/L	2E-05						
Thallium	ND	mg/L	1.0E-05						
Uranium	ND	mg/L	7E-06						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C112871			12/29/08 19:52			
Antimony	0.0509	mg/L	0.0010	101	85	115			
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Barium	0.0525	mg/L	0.0010	105	85	115			
Cadmium	0.0522	mg/L	0.0010	104	85	115			
Chromium	0.0516	mg/L	0.0010	103	85	115			
Copper	0.0524	mg/L	0.0010	105	85	115			
Lead	0.0518	mg/L	0.0010	104	85	115			
Manganese	0.0518	mg/L	0.0010	104	85	115			
Nickel	0.0521	mg/L	0.0010	104	85	115			
Selenium	0.0526	mg/L	0.0010	105	85	115			
Strontium	0.0515	mg/L	0.0010	103	85	115			
Thallium	0.0513	mg/L	0.0010	103	85	115			
Uranium	0.0491	mg/L	0.00030	98	85	115			
Sample ID: C08120843-006BMS	Sample Matrix Spike		Run: SUB-C112871			12/29/08 23:06			
Uranium	66	mg/L	0.00030		70	130			A
Sample ID: C08120843-006BMSD	Sample Matrix Spike Duplicate		Run: SUB-C112871			12/29/08 23:13			
Uranium	67	mg/L	0.00030		70	130	1.9	20	A
Sample ID: R08120255-013D	Post Digestion Spike		Run: SUB-C112871			12/30/08 03:26			
Antimony	0.0539	mg/L	0.050	108	70	130			
Arsenic	0.0740	mg/L	0.0010	102	70	130			
Barium	0.0629	mg/L	0.10	101	70	130			
Cadmium	0.0494	mg/L	0.010	99	70	130			
Chromium	0.0478	mg/L	0.050	96	70	130			
Copper	0.0487	mg/L	0.010	97	70	130			
Lead	0.0513	mg/L	0.050	102	70	130			
Manganese	0.113	mg/L	0.010	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R112871		
Sample ID: R08120255-013D	Post Digestion Spike			Run: SUB-C112871			12/30/08 03:26		
Nickel	0.0484	mg/L	0.050	96	70	130			
Selenium	0.0541	mg/L	0.0010	108	70	130			
Strontium	1.36	mg/L	0.10		70	130			A
Thallium	0.0483	mg/L	0.10	97	70	130			
Uranium	0.0504	mg/L	0.00030	96	70	130			
Sample ID: R08120255-013D	Post Digestion Spike Duplicate			Run: SUB-C112871			12/30/08 03:33		
Antimony	0.0540	mg/L	0.050	108	70	130	0.1	20	
Arsenic	0.0749	mg/L	0.0010	104	70	130	1.3	20	
Barium	0.0629	mg/L	0.10	101	70	130	0	20	
Cadmium	0.0493	mg/L	0.010	99	70	130	0.2	20	
Chromium	0.0480	mg/L	0.050	96	70	130	0	20	
Copper	0.0485	mg/L	0.010	97	70	130	0.3	20	
Lead	0.0514	mg/L	0.050	102	70	130	0.3	20	
Manganese	0.115	mg/L	0.010	106	70	130	1.8	20	
Nickel	0.0489	mg/L	0.050	97	70	130	0	20	
Selenium	0.0527	mg/L	0.0010	105	70	130	2.7	20	
Strontium	1.37	mg/L	0.10		70	130	1	20	A
Thallium	0.0486	mg/L	0.10	97	70	130	0	20	
Uranium	0.0509	mg/L	0.00030	97	70	130	1	20	
Method: E200.8							Batch: C_R112947		
Sample ID: LRB	Method Blank			Run: SUB-C112947			01/01/09 16:40		
Beryllium	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C112947			01/01/09 16:46		
Beryllium	0.0508	mg/L	0.0010	102	85	115			
Molybdenum	0.0527	mg/L	0.0010	105	85	115			
Silver	0.0202	mg/L	0.0010	101	85	115			
Sample ID: C08120940-006AMS4	Post Digestion Spike			Run: SUB-C112947			01/02/09 01:54		
Beryllium	0.0494	mg/L	0.010	99	70	130			
Molybdenum	0.973	mg/L	0.10		70	130			A
Silver	0.0186	mg/L	0.010	93	70	130			
Sample ID: C08120940-006AMSD4	Post Digestion Spike Duplicate			Run: SUB-C112947			01/02/09 02:01		
Beryllium	0.0481	mg/L	0.010	96	70	130	2.7	20	
Molybdenum	0.979	mg/L	0.10		70	130	0.6	20	A
Silver	0.0187	mg/L	0.010	94	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R113003		
Sample ID: LRB Silver	Method Blank ND	mg/L	3E-05			Run: SUB-C113003			01/02/09 15:06
Sample ID: LFB Silver	Laboratory Fortified Blank 0.0183	mg/L	0.0010	91	85	115			01/02/09 15:13
Sample ID: R08120255-007D Silver	Post Digestion Spike 0.0151	mg/L	0.010	75	70	130			01/02/09 19:59
Sample ID: R08120255-007D Silver	Post Digestion Spike Duplicate 0.0158	mg/L	0.010	79	70	130	4.9	20	01/02/09 20:05
Method: E200.8							Batch: C_R113293		
Sample ID: LRB Zinc	Method Blank ND	mg/L	0.0002			Run: SUB-C113293			01/12/09 12:01
Sample ID: R08120255-013D Zinc	Post Digestion Spike 0.0543	mg/L	0.010	105	70	130			01/12/09 18:31
Sample ID: R08120255-013D Zinc	Post Digestion Spike Duplicate 0.0534	mg/L	0.010	104	70	130	1.7	20	01/12/09 18:38
Sample ID: LFB Zinc	Laboratory Fortified Blank 0.0537	mg/L	0.0010	107	85	115			01/13/09 10:22
Method: E245.1							Batch: B_36516		
Sample ID: MB-36516 Mercury	Method Blank ND	mg/L	5E-05			Run: SUB-B122673			12/26/08 14:51
Sample ID: LFB-36516 Mercury	Laboratory Fortified Blank 0.0019	mg/L	0.0010	97	85	115			12/26/08 14:53
Sample ID: R08120271-001A Mercury	Sample Matrix Spike 0.0019	mg/L	0.0010	94	70	130			12/26/08 14:57
Sample ID: R08120271-001A Mercury	Sample Matrix Spike Duplicate 0.0019	mg/L	0.0010	93	70	130	0	30	12/26/08 15:00
Sample ID: B08121922-007JMS Mercury	Sample Matrix Spike 0.0020	mg/L	0.0010	99	70	130			12/26/08 15:26
Sample ID: B08121922-007JMSD Mercury	Sample Matrix Spike Duplicate 0.0020	mg/L	0.0010	100	70	130	1	30	12/26/08 15:28

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E245.1							Analytical Run: SUB-B122673			
Sample ID: QCS	Initial Calibration Verification Standard									
Mercury	0.0019	mg/L	0.0010	97	90	110			12/26/08 14:40	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R38894		
Sample ID: LFB0812181213-3	Laboratory Fortified Blank			Run: DIONEX_081218A			12/18/08 19:50		
Chloride	4.83	mg/L	0.50	97	90	110			
Fluoride	2.11	mg/L	0.10	105	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.49	mg/L	0.10	100	90	110			
Sulfate	14.4	mg/L	1.0	96	90	110			
Sample ID: LFB0812181213-4	Laboratory Fortified Blank			Run: DIONEX_081218A			12/18/08 20:07		
Chloride	4.81	mg/L	0.50	96	90	110			
Fluoride	2.11	mg/L	0.10	105	90	110			
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N	2.48	mg/L	0.10	99	90	110			
Sulfate	14.4	mg/L	1.0	96	90	110			
Sample ID: R08120226-003AMS	Sample Matrix Spike			Run: DIONEX_081218A			12/18/08 20:39		
Chloride	763	mg/L	1.1		80	120			A
Fluoride	20.4	mg/L	0.11	93	80	120			
Nitrogen, Nitrate as N	52.0	mg/L	0.25	91	80	120			
Nitrogen, Nitrite as N	22.9	mg/L	0.58	92	80	120			
Sulfate	3580	mg/L	1.0		80	120			A
Sample ID: R08120226-003AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081218A			12/18/08 20:56		
Chloride	764	mg/L	1.1		80	120	0.2	10	A
Fluoride	19.6	mg/L	0.11	89	80	120	4.5	10	
Nitrogen, Nitrate as N	51.1	mg/L	0.25	87	80	120	1.9	10	
Nitrogen, Nitrite as N	21.9	mg/L	0.58	88	80	120	4.3	10	
Sulfate	3590	mg/L	1.0		80	120	0.3	10	A
Sample ID: R08120255-004AMS	Sample Matrix Spike			Run: DIONEX_081218A			12/19/08 00:13		
Chloride	251	mg/L	5.4	90	80	120			
Fluoride	105	mg/L	0.56	94	80	120			
Nitrogen, Nitrate as N	113	mg/L	1.3	91	80	120			
Nitrogen, Nitrite as N	122	mg/L	2.9	97	80	120			
Sulfate	1910	mg/L	3.4	82	80	120			
Sample ID: R08120255-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_081218A			12/19/08 00:29		
Chloride	244	mg/L	5.4	87	80	120	2.6	10	
Fluoride	101	mg/L	0.56	91	80	120	3	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	2.8	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	2.5	10	
Sulfate	1870	mg/L	3.4	77	80	120	1.9	10	S
Sample ID: R08120255-008AMS	Sample Matrix Spike			Run: DIONEX_081218A			12/19/08 03:30		
Chloride	246	mg/L	5.4	89	80	120			
Fluoride	104	mg/L	0.56	92	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R38894		
Sample ID: R08120255-008AMS	Sample Matrix Spike				Run: DIONEX_081218A		12/19/08 03:30		
Nitrogen, Nitrate as N	113	mg/L	1.3	90	80	120			
Nitrogen, Nitrite as N	122	mg/L	2.9	98	80	120			
Sulfate	1090	mg/L	3.4	82	80	120			
Sample ID: R08120255-008AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081218A		12/19/08 03:46		
Chloride	241	mg/L	5.4	87	80	120	2.2	10	
Fluoride	102	mg/L	0.56	91	80	120	1.6	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	2.6	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	2.6	10	
Sulfate	1080	mg/L	3.4	81	80	120	0.7	10	
Sample ID: R08120255-012AMS	Sample Matrix Spike				Run: DIONEX_081218A		12/19/08 06:47		
Chloride	247	mg/L	5.4	90	80	120			
Fluoride	103	mg/L	0.56	93	80	120			
Nitrogen, Nitrate as N	113	mg/L	1.3	90	80	120			
Nitrogen, Nitrite as N	121	mg/L	2.9	97	80	120			
Sulfate	1080	mg/L	3.4	83	80	120			
Sample ID: R08120255-012AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_081218A		12/19/08 07:03		
Chloride	242	mg/L	5.4	88	80	120	1.9	10	
Fluoride	102	mg/L	0.56	91	80	120	1.6	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	2.3	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	2.2	10	
Sulfate	1070	mg/L	3.4	82	80	120	0.9	10	
Method: E900.0							Batch: C_GrAB-0589		
Sample ID: MB-GrAB-0589	Method Blank				Run: SUB-C113399		01/13/09 11:06		
Gross Alpha	0.03	pCi/L							U
Gross Beta	0.4	pCi/L							U
Sample ID: UNAT-GrAB-0589	Laboratory Control Sample				Run: SUB-C113399		01/13/09 11:06		
Gross Alpha	120	pCi/L		85	70	130			
Sample ID: C08120850-001AMS	Sample Matrix Spike				Run: SUB-C113399		01/13/09 11:06		
Gross Beta	90	pCi/L		94	70	130			
Sample ID: C08120850-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C113399		01/13/09 11:06		
Gross Beta	94	pCi/L		97	70	130	3.7	16.1	
Sample ID: R08120255-007H	Sample Duplicate				Run: SUB-C113399		01/14/09 01:15		
Gross Alpha	5400	pCi/L					4.9	12.7	
Gross Beta	2000	pCi/L					3.6	12.3	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R112957		
Sample ID: LCS-R112957	Laboratory Control Sample			Run: SUB-C112957			12/29/08 12:00		
Americium 241	25000	pCi/L	20	83	70	130			
Cesium 137	43000	pCi/L	20	95	70	130			
Cobalt 60	30000	pCi/L	20	100	70	130			
Sample ID: MB-R112957	Method Blank			Run: SUB-C112957			12/29/08 12:00		
Americium 241	ND	pCi/L							
Barium 133	ND	pCi/L							
Bismuth 212	ND	pCi/L							
Bismuth 214	ND	pCi/L							U
Cesium 134	ND	pCi/L							
Cesium 137	ND	pCi/L							
Cobalt 60	ND	pCi/L							
Iodine 125	ND	pCi/L							
Iodine 131	ND	pCi/L							
Lead 212	ND	pCi/L							
Lead 214	ND	pCi/L							
Manganese 54	ND	pCi/L							
Potassium 40	ND	pCi/L							
Radium 223	ND	pCi/L							
Radium 224	ND	pCi/L							
Thallium 208	ND	pCi/L							
Thorium 228	ND	pCi/L							
Thorium 234	ND	pCi/L							
Zinc 65	ND	pCi/L							
Radium 228	ND	pCi/L							
Gross Gamma	ND	pCi/L							U
Sample ID: R08120255-007H	Sample Duplicate			Run: SUB-C112957			12/29/08 12:00		
Americium 241	ND	pCi/L	20				0	30	
Barium 133	ND	pCi/L	20				0	30	
Bismuth 212	ND	pCi/L	20				0	30	
Bismuth 214	780	pCi/L	20				5.6	30	
Cesium 134	ND	pCi/L	20				0	30	
Cesium 137	ND	pCi/L	20				0	30	
Cobalt 60	ND	pCi/L	20				0	30	
Iodine 125	ND	pCi/L	20				0	30	
Iodine 131	ND	pCi/L	20				0	30	
Lead 212	ND	pCi/L	20				0	30	
Lead 214	760	pCi/L	20				1.9	30	
Manganese 54	ND	pCi/L	20				0	30	
Potassium 40	ND	pCi/L	20				0	30	
Radium 223	ND	pCi/L					0	30	
Radium 224	ND	pCi/L					0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R112957		
Sample ID: R08120255-007H	Sample Duplicate				Run: SUB-C112957			12/29/08 12:00	
Thallium 208	ND	pCi/L	20				0	30	
Thorium 228	ND	pCi/L	20				0	30	
Thorium 234	ND	pCi/L	20				0	30	
Zinc 65	ND	pCi/L	20				0	30	
Radium 228	ND	pCi/L	20				0	30	
Gross Gamma	1500	pCi/L					1.9	30	
Method: E903.0							Batch: C_20988		
Sample ID: R08120255-005I	Sample Duplicate				Run: SUB-C113735			01/21/09 21:42	
Radium 226	4.3	pCi/L			70	130	10	40.6	
Sample ID: R08120255-010I	Sample Matrix Spike				Run: SUB-C113735			01/21/09 23:27	
Radium 226	33	pCi/L	95		70	130			
Sample ID: LCS-20988	Laboratory Control Sample				Run: SUB-C113735			01/22/09 01:17	
Radium 226	14	pCi/L	98		70	130			
Sample ID: MB-20988	Method Blank				Run: SUB-C113735			01/22/09 01:17	
Radium 226	-0.3	pCi/L							U
Method: E903.0							Batch: C_RA226-3344		
Sample ID: R08120255-001H	Sample Matrix Spike				Run: SUB-C113059			01/05/09 12:37	
Radium 226	27	pCi/L	87		70	130			
Sample ID: R08120255-001H	Sample Matrix Spike Duplicate				Run: SUB-C113059			01/05/09 12:37	
Radium 226	14	pCi/L	89		70	130	64	20.9	R
- The RPD for the MSD is high because the MS was spiked twice. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-RA226-3344	Method Blank				Run: SUB-C113059			01/05/09 15:43	
Radium 226	-0.09	pCi/L							U
Sample ID: LCS-RA226-3344	Laboratory Control Sample				Run: SUB-C113059			01/05/09 15:43	
Radium 226	7.1	pCi/L	90		70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/27/09
 Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_20988		
Sample ID: C08120794-003AMS	Sample Matrix Spike				Run: SUB-C113220		01/08/09 08:37		
Thorium 230	25.2	pCi/Filter	0.20	109	70	130			
Sample ID: C08120794-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C113220		01/08/09 08:37		
Thorium 230	24.1	pCi/Filter	0.20	103	70	130	4.2	58.2	
Sample ID: LCS-20988	Laboratory Control Sample				Run: SUB-C113220		01/08/09 08:37		
Thorium 230	4.86	pCi/L	0.20	104	70	130			
Sample ID: MB-20988	Method Blank				Run: SUB-C113220		01/08/09 08:37		
Thorium 230	-0.1	pCi/L							U
Method: E907.0							Batch: C_RA-TH-ISO-0721		
Sample ID: LCS-RA-TH-ISO-0721	Laboratory Control Sample				Run: SUB-C113222		01/08/09 08:39		
Thorium 230	5.07	pCi/L	0.20	101	70	130			
Sample ID: R08120255-003H	Sample Matrix Spike				Run: SUB-C113222		01/08/09 08:39		
Thorium 230	45.0	pCi/L	0.20	92	70	130			
Sample ID: R08120255-003H	Sample Matrix Spike Duplicate				Run: SUB-C113222		01/08/09 08:39		
Thorium 230	48.3	pCi/L	0.20	98	70	130	7.1	43.2	
Sample ID: MB-RA-TH-ISO-0721	Method Blank				Run: SUB-C113222		01/08/09 15:39		
Thorium 230	0.1	pCi/L							U
Method: E909.0M							Batch: C_20988		
Sample ID: R08120255-009I	Sample Matrix Spike				Run: SUB-C113352		01/06/09 10:06		
Lead 210	1200	pCi/L		99	70	130			
Sample ID: R08120255-009I	Sample Matrix Spike Duplicate				Run: SUB-C113352		01/06/09 10:06		
Lead 210	1300	pCi/L		113	70	130	13	30	
Sample ID: MB-R113352	Method Blank				Run: SUB-C113352		01/06/09 10:06		
Lead 210	-2	pCi/L							U
Sample ID: LCS-R113352	Laboratory Control Sample				Run: SUB-C113352		01/06/09 10:06		
Lead 210	56	pCi/L		50	70	130			S

- LCS response is outside of the acceptance range for this analysis. Since the MS and MSD recoveries are acceptable the batch is approved.

Qualifiers:

RL - Analyte reporting limit.
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/27/09
Work Order: R08120255

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R113310		
Sample ID: R08120255-004H	Sample Matrix Spike				Run: SUB-C113310		12/30/08 08:13		
Lead 210	57	pCi/L		47	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MB are acceptable the batch is approved.									
Sample ID: R08120255-010H	Sample Duplicate				Run: SUB-C113310		12/30/08 08:13		
Lead 210	4.7	pCi/L					32	30	UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R113310	Method Blank				Run: SUB-C113310		12/30/08 08:13		
Lead 210	0.5	pCi/L							U
Sample ID: LCS-R113310	Laboratory Control Sample				Run: SUB-C113310		12/30/08 08:13		
Lead 210	62	pCi/L		106	70	130			
Method: RMO-3008							Batch: C_20988		
Sample ID: C08120790-003FMS	Sample Matrix Spike				Run: SUB-C113510		01/16/09 12:03		
Polonium 210	160	pCi/L	1.0	96	70	130			
Sample ID: C08120790-003FMSD	Sample Matrix Spike Duplicate				Run: SUB-C113510		01/16/09 12:03		
Polonium 210	150	pCi/L	1.0	90	70	130	6.2	55.7	
Sample ID: LCS-20988	Laboratory Control Sample				Run: SUB-C113510		01/16/09 12:03		
Polonium 210	84	pCi/L	1.0	98	70	130			
Sample ID: MB-20988	Method Blank				Run: SUB-C113510		01/16/09 12:03		
Polonium 210	0.2	pCi/L							U
Method: RMO-3008							Batch: C_PO210-0173		
Sample ID: C08120771-001KMS	Sample Matrix Spike				Run: SUB-C113513		01/09/09 13:47		
Polonium 210	15	pCi/L	1.0	98	70	130			
Sample ID: C08120771-001KMSD	Sample Matrix Spike Duplicate				Run: SUB-C113513		01/09/09 13:47		
Polonium 210	12	pCi/L	1.0	78	70	130	22	50.6	
Sample ID: LCS-PO210-0173	Laboratory Control Sample				Run: SUB-C113513		01/09/09 13:47		
Polonium 210	18	pCi/L	1.0	103	70	130			
Sample ID: MB-PO210-0173	Method Blank				Run: SUB-C113513		01/12/09 09:22		
Polonium 210	0.05	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: <i>Scott Environmental</i>	Project Name, PWS, Permit, Etc. <i>Dewey Burdick GW Permit</i>	Sample Origin State: _____	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: <i>RESPEC</i>	Contact Name: <i>Allen Scott</i>	Email: <i>Allen Scott</i>	Sampler: (Please Print) <i>Allen Scott</i>
Invoice Address: _____	Invoice Contact & Phone: _____	Purchase Order: _____	Quote/Bottle Order: _____

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

- DW
- GSA
- POTW/WWTP
- State: _____
- Other: _____
- A2LA
- EDD/EDT (Electronic Data)
- Format: _____
- LEVEL IV
- NELAC

Number of Containers Sample Type: A W S V B O Vegetation Bioassay Other	ANALYSIS REQUESTED	SEE ATTACHED	Normal Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Comments:	Shipped by:	
						Receipt Temp	On Ice:
						1.9 °C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
							Custody Seal Y N
							Intact Y N
							Signature Match Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Received by (print):	Date/Time:	Signature:
1. Dew Burd GW Blch/	12-17-08	10:00	water			
2. GW 681	12-17	10:48				
3. GW 689	12-17	11:02				
4. GW 3026	12-17	12:46				
5. GW 698	12-17	1:00				
6. GW 698	12-17	1:15				
7. GW 680	12-17	1:50				
8. GW 622	12-17	2:20				
9. GW 697	12-17	2:45				
10. GW 695	12-17	3:10				

Relinquished by (print): *Allen Scott* Date/Time: *12-18-08 10:19* Signature: *Allen Scott*
 Relinquished by (print): _____ Date/Time: _____ Signature: _____
 Received by (print): _____ Date/Time: _____ Signature: _____
 Received by (print): _____ Date/Time: _____ Signature: _____
 Date/Time: *12-10-08 01:19* Signature: *Steve Forband*

Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Sin H Environmental Project Name, PWS, Permit, Etc.: PowerTech Dewey Brook GW
 Report Mail Address: RESPEC Contact Name: Allen Scott Phone/Fax: _____
 Invoice Address: _____ Invoice Contact & Phone: _____ Email: _____

EPA/State Compliance: Yes No
 Sampler: (Please Print) Allen Scott
 Quote/Bottle Order: _____

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

- DW
- GSA
- POTW/WWTP
- State: _____
- Other: _____
- A2LA
- EDD/EDT (Electronic Data)
- Format: _____
- LEVEL IV
- NELAC

Number of Containers: _____
 Sample Type: A W S V B O
 Air Water Soils/Solids
 Vegetation Bioassay Other

ANALYSIS REQUESTED	SEE ATTACHED	Normal Turnaround (TAT)	Comments:
<u>As per quote</u>			

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page
R U S H

Shipped by: _____
 Cooler ID(s): _____
 Receipt Temp: _____ °C
 On Ice: Yes No
 Custody Seal Y N
 Intact Y N
 Signature Match Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	LABORATORY USE ONLY
<u>GW 694</u>	<u>12-17</u>	<u>3:45</u>	<u>Water</u>	<u>808120256-611</u>
<u>GW 696</u>	<u>12-17</u>	<u>4:05</u>	<u>11</u>	<u>012</u>
<u>GW 615</u>	<u>12-17</u>	<u>11:27</u>	<u>11</u>	<u>013</u>

Custody Record MUST be Signed
 Requisition by (print): Allen Scott Date/Time: 12-16-08 10:19
 Requisitioned by (print): _____ Date/Time: _____
 Signature: [Signature] Date/Time: _____
 Received by (print): _____ Date/Time: _____
 Received by (print): [Signature] Date/Time: 12-17-08 10:19
 Signature: [Signature] Date/Time: _____
 Lab Disposal: _____ Return to Client: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

****REPORT****

RESPEC Inc
Cory Foreman
3824 Jet Dr
Rapid City SD 57701



ANALYTICAL SUMMARY REPORT

January 28, 2009

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R08120281 Quote ID: R286


Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample for RESPEC Inc on 12/22/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08120281-001	DewBurd GW688	12/22/08 9:45	12/22/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120281-001
Client Sample ID: DewBurd GW688

Report Date: 01/28/09
Collection Date: 12/22/08 09:45
Date Received: 12/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	12/23/08 11:29/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/23/08 11:29/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	12/23/08 11:29/mb
Calcium	48.7	mg/L		0.5		2	E200.7	01/05/09 15:50/eli-c
Chloride	12	mg/L		1		1	E300.0	12/24/08 18:15/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/24/08 18:15/jmh
Magnesium	21.1	mg/L		0.5		2	E200.7	01/05/09 15:50/eli-c
Nitrogen, Ammonia as N	0.7	mg/L		0.1		1	A4500-NH3 G	12/26/08 15:48/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/24/08 18:15/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/24/08 18:15/jmh
Potassium	12.3	mg/L		0.5		2	E200.7	01/05/09 15:50/eli-c
Sodium	194	mg/L	D	2		2	E200.7	01/05/09 15:50/eli-c
Sulfate	435	mg/L	D	3		50	E300.0	12/24/08 17:58/jmh
Silica	8.9	mg/L		0.2		2	E200.7	01/05/09 15:50/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1110	umhos/cm		5.0		1	A2510 B	01/06/09 10:18/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	12/23/08 14:30/jmh
pH	7.87	s.u.		0.01		1	A4500-H B	12/29/08 12:34/tb
Sodium Adsorption Ratio (SAR)	5.9	unitless		0.10		1	Calculation	01/23/09 16:16/ADM
Solids, Total Dissolved TDS @ 180 C	780	mg/L	H	5		1	A2540 C	12/30/08 15:10/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/29/08 14:22/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/27/08 07:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/27/08 07:55/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/05/09 15:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/27/08 07:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/29/08 14:22/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/27/08 07:55/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/05/09 15:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/27/08 07:55/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/27/08 07:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/27/08 07:55/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/27/08 07:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/27/08 07:55/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/09/09 16:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/27/08 07:55/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/27/08 07:55/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 1 of 3
QCL - Quality control limit. ND - Not detected at the reporting limit.
MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08120281-001
Client Sample ID: DewBurd GW688

Report Date: 01/28/09
Collection Date: 12/22/08 09:45
Date Received: 12/22/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	12/27/08 07:55/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/29/08 14:22/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/27/08 07:55/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L	D	0.0009		1	E200.8	01/01/09 22:42/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/08/09 15:51/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/09/09 16:57/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1.9	pCi/L	U			1	E900.0	01/14/09 22:47/eli-c
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	01/14/09 22:47/eli-c
Gross Alpha MDC	3.9	pCi/L				1	E900.0	01/14/09 22:47/eli-c
Gross Beta	8.8	pCi/L				1	E900.0	01/14/09 22:47/eli-c
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	01/14/09 22:47/eli-c
Gross Beta MDC	5.5	pCi/L				1	E900.0	01/14/09 22:47/eli-c
Lead 210	1.0	pCi/L	U			1	E909.0M	12/30/08 08:13/eli-c
Lead 210 precision (±)	2.4	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Lead 210 MDC	4.0	pCi/L				1	E909.0M	12/30/08 08:13/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/09/09 13:47/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1	RMO-3008	01/09/09 13:47/eli-c
Radium 226	0.7	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	01/05/09 14:13/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	01/14/09 16:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	01/14/09 16:00/eli-c
Gross Gamma	720	pCi/L				1	E901.1	12/29/08 12:00/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	12/29/08 12:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.1	pCi/L	U			1	E909.0M	01/06/09 10:06/eli-c
Lead 210 precision (±)	6.2	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Lead 210 MDC	10.4	pCi/L				1	E909.0M	01/06/09 10:06/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	01/15/09 14:33/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1	RMO-3008	01/15/09 14:33/eli-c
Radium 226	0.1	pCi/L	U			1	E903.0	01/21/09 23:27/eli-c

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R08120281-001
 Client Sample ID: DewBurd GW688

Report Date: 01/28/09
 Collection Date: 12/22/08 09:45
 Date Received: 12/22/08
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	01/21/09 23:27/eli-c
Radium 226 MDC	0.5	pCi/L				1 E903.0	01/21/09 23:27/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	01/07/09 13:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	01/07/09 13:33/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - TOTAL							
Radon 222	81.1	pCi/L	U	100		1 D5072-92	12/23/08 17:11/eli-c
Radon 222 precision (±)	41.5	pCi/L				1 D5072-92	12/23/08 17:11/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	12/30/08 20:28/eli-c
Arsenic	0.004	mg/L	L	0.003		1 E200.8	12/30/08 20:28/eli-c
Barium	ND	mg/L		0.1		1 E200.8	12/30/08 20:28/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	12/30/08 20:28/eli-c
Boron	ND	mg/L		0.1		2 E200.7	01/05/09 18:44/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	12/30/08 20:28/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	12/30/08 20:28/eli-c
Copper	ND	mg/L		0.01		1 E200.8	12/30/08 20:28/eli-c
Iron	0.50	mg/L		0.03		2 E200.7	01/05/09 18:44/eli-c
Lead	0.001	mg/L		0.001		1 E200.8	12/30/08 20:28/eli-c
Manganese	0.07	mg/L		0.01		1 E200.8	12/30/08 20:28/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	12/26/08 15:49/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	12/30/08 20:28/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	12/30/08 20:28/eli-c
Selenium	0.001	mg/L		0.001		1 E200.8	01/01/09 18:01/eli-c
Silver	ND	mg/L		0.005		1 E200.8	12/30/08 20:28/eli-c
Strontium	1.2	mg/L		0.1		1 E200.8	12/30/08 20:28/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	12/30/08 20:28/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	12/30/08 20:28/eli-c
Zinc	0.01	mg/L		0.01		1 E200.8	12/30/08 20:28/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.990	%				1 A1030 E	01/23/09 00:00/jmh
Anions	12.7	meq/L				1 A1030 E	01/23/09 00:00/jmh
Cations	13.0	meq/L				1 A1030 E	01/23/09 00:00/jmh
Solids, Total Dissolved Calculated	848	mg/L				1 A1030 E	01/23/09 00:00/jmh
TDS Balance (0.80 - 1.20)	0.920					1 A1030 E	01/23/09 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 L - Lowest available reporting limit for the analytical method used.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 081223A-ALK-SEL-W		
Sample ID: LCS1_081223A Alkalinity, Total as CaCO3	Laboratory Control Sample 936	mg/L	5.0	94	90	110			12/23/08 09:08
Sample ID: MBLK1_081223A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						12/23/08 09:09
Sample ID: R08120255-006AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 182	mg/L	5.0	64	80	120			12/23/08 10:40 S
Sample ID: R08120255-006AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 198	mg/L	5.0	79	80	120	8.4	10	12/23/08 10:52 S
Method: A2510 B							Batch: 090106_1_COND-PROBE-W		
Sample ID: LCS_COND-1_090106 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			01/06/09 10:12
Sample ID: LCS1-1_090106 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			01/06/09 10:13
Sample ID: LCS2-1_090106 Conductivity @ 25 C	Laboratory Control Sample 4950	umhos/cm	5.0	99	90	110			01/06/09 10:15
Sample ID: MBLK-1_090106 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						01/06/09 10:17
Sample ID: R09010033-001BDUP Conductivity @ 25 C	Sample Duplicate ND	umhos/cm	5.0				0	10	01/06/09 10:30
Method: A2540 C							Batch: 081230A-SLDS-TDS-W		
Sample ID: LCS1_081230A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 190	mg/L	5.0	96	90	110			12/30/08 15:08
Sample ID: MBLK1_081230A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	8						12/30/08 15:09
Sample ID: R08120281-001AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 990	mg/L	5.0	106	80	120			12/30/08 15:10
Sample ID: R08120281-001AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 990	mg/L	5.0	108	80	120	0.4	10	12/30/08 15:11

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 081223-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_081223B			12/23/08 14:30
Oxidation-Reduction Potential	480	mV		101	95	105			
Sample ID: R08120255-001F	Sample Duplicate					Run: PH_COND1-R_081223B			12/23/08 14:30
Oxidation-Reduction Potential	290	mV					0.8	10	
Sample ID: R08120255-011F	Sample Duplicate					Run: PH_COND1-R_081223B			12/23/08 14:30
Oxidation-Reduction Potential	270	mV					0.3	10	
Method: A3114 B							Batch: C_SE3114-090109B		
Sample ID: MBLK	Method Blank					Run: SUB-C113244			01/09/09 15:31
Selenium	ND	mg/L	0.0003						
Sample ID: 288-184-2	Laboratory Control Sample					Run: SUB-C113244			01/09/09 15:33
Selenium	0.055	mg/L	0.0010	109	90	110			
Sample ID: R08120255-011E	Sample Matrix Spike					Run: SUB-C113244			01/09/09 16:12
Selenium	0.057	mg/L	0.0010	113	85	115			
Sample ID: R08120255-011E	Sample Matrix Spike Duplicate					Run: SUB-C113244			01/09/09 16:14
Selenium	0.058	mg/L	0.0010	116	85	115	2.5	15	S
Sample ID: R08120255-001E	Sample Matrix Spike					Run: SUB-C113244			01/09/09 15:40
Selenium	0.055	mg/L	0.0010	110	85	115			
Sample ID: R08120255-001E	Sample Matrix Spike Duplicate					Run: SUB-C113244			01/09/09 15:42
Selenium	0.057	mg/L	0.0010	113	85	115	2.8	15	
Method: A3114 B							Batch: C_SEIV3114-090108		
Sample ID: MBLK	Method Blank					Run: SUB-C113187			01/08/09 14:58
Selenium-IV	ND	mg/L	0.0003						
Sample ID: 288-184-2	Laboratory Control Sample					Run: SUB-C113187			01/08/09 15:00
Selenium-IV	0.050	mg/L	0.0010	100	90	110			
Sample ID: R08120255-011E	Sample Matrix Spike					Run: SUB-C113187			01/08/09 15:42
Selenium-IV	0.042	mg/L	0.0010	84	85	115			S
Sample ID: R08120255-011E	Sample Matrix Spike Duplicate					Run: SUB-C113187			01/08/09 15:44
Selenium-IV	0.044	mg/L	0.0010	87	85	115	4.4	10	
Sample ID: R08120255-001E	Sample Matrix Spike					Run: SUB-C113187			01/08/09 15:07
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: R08120255-001E	Sample Matrix Spike Duplicate					Run: SUB-C113187			01/08/09 15:10
Selenium-IV	0.046	mg/L	0.0010	93	85	115	0.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 081229_1_PH-W		
Sample ID: LCS_pH-1_081229	Laboratory Control Sample				Run: PH_COND2-R_081229A			12/29/08 12:32	
pH	6.84	s.u.	0.010	100	98.55	101.45			
Sample ID: R08120281-001ADUP	Sample Duplicate				Run: PH_COND2-R_081229A			12/29/08 12:35	
pH	7.89	s.u.	0.010				0.3	1.25	
Method: A4500-NH3 G							Batch: A2008-12-26_2_NH3_01		
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_081226A			12/26/08 14:12	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_081226A			12/26/08 14:13	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	98	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_081226A			12/26/08 14:14	
Nitrogen, Ammonia as N	0.27	mg/L	0.10	110	90	110			
Sample ID: R08120255-002BMS	Sample Matrix Spike				Run: TECHAA2-R_081226A			12/26/08 14:53	
Nitrogen, Ammonia as N	0.34	mg/L	0.10	111	80	120			
Sample ID: R08120255-002BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_081226A			12/26/08 14:54	
Nitrogen, Ammonia as N	0.34	mg/L	0.10	111	80	120	0.3	10	
Sample ID: R08120255-010BMS	Sample Matrix Spike				Run: TECHAA2-R_081226A			12/26/08 15:07	
Nitrogen, Ammonia as N	0.42	mg/L	0.10	100	80	120			
Sample ID: R08120255-010BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_081226A			12/26/08 15:08	
Nitrogen, Ammonia as N	0.45	mg/L	0.10	109	80	120	5.3	10	
Method: D5072-92							Batch: C_R112705		
Sample ID: R08120281-001G	Sample Duplicate				Run: SUB-C112705			12/23/08 17:11	
Radon 222	110	pCi/L	100				30	30	R
- Activity of original sample is below detection limit; duplicate is above detection limit, but within the limits of precision, resulting in high RPD. Batch is acceptable.									
Sample ID: MB-R112705	Method Blank				Run: SUB-C112705			12/23/08 17:11	
Radon 222	20	pCi/L							U
Sample ID: LCS-R112705	Laboratory Control Sample				Run: SUB-C112705			12/23/08 17:11	
Radon 222	301	pCi/L	100	93	70	130			

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_20978
Sample ID: MB-20978	Method Blank								Run: SUB-C113039 01/05/09 19:00
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS3-20978	Laboratory Control Sample								Run: SUB-C113039 01/05/09 19:04
Boron	0.516	mg/L	0.10	103	85	115			
Iron	2.57	mg/L	0.030	103	85	115			
Sample ID: C08120822-001BMS3	Sample Matrix Spike								Run: SUB-C113039 01/05/09 19:29
Boron	0.658	mg/L	0.10	104	70	130			
Iron	3.53	mg/L	0.030	110	70	130			
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate								Run: SUB-C113039 01/05/09 19:33
Boron	0.647	mg/L	0.10	102	70	130	1.7	20	
Iron	3.34	mg/L	0.030	102	70	130	5.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R113039		
Sample ID: MB-090105A	Method Blank		Run: SUB-C113039				01/05/09 12:11		
Silicon	ND	mg/L	0.02						
Boron	0.02	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Silica	ND	mg/L	0.04						
Sample ID: LFB-090105A	Laboratory Fortified Blank		Run: SUB-C113039				01/05/09 12:15		
Silicon	0.38	mg/L	0.021	96	85	125			
Boron	1.1	mg/L	0.10	105	85	125			
Calcium	50	mg/L	0.50	99	85	125			
Iron	1.0	mg/L	0.030	101	85	125			
Magnesium	50	mg/L	0.50	100	85	125			
Potassium	47	mg/L	0.50	94	85	125			
Sodium	49	mg/L	0.77	99	85	125			
Silica	0.82	mg/L	0.044	96	85	125			
Sample ID: C08120739-002BMS2	Sample Matrix Spike		Run: SUB-C113039				01/05/09 15:25		
Boron	2.25	mg/L	0.10	104	70	130			
Iron	2.03	mg/L	0.030	101	70	130			
Silicon	8.94	mg/L	0.10		70	130			A
Calcium	118	mg/L	1.0	102	70	130			
Magnesium	113	mg/L	1.0	102	70	130			
Potassium	95.9	mg/L	1.0	93	70	130			
Sodium	230	mg/L	1.5	104	70	130			
Silica	19.1	mg/L	0.21		70	130			A
Sample ID: C08120739-002BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C113039				01/05/09 15:29		
Boron	2.29	mg/L	0.10	106	70	130	1.6	20	
Iron	2.05	mg/L	0.030	102	70	130	0.6	20	
Silicon	8.93	mg/L	0.10		70	130	0	20	A
Calcium	118	mg/L	1.0	102	70	130	0	20	
Magnesium	114	mg/L	1.0	103	70	130	0.2	20	
Potassium	97.9	mg/L	1.0	95	70	130	2.1	20	
Sodium	232	mg/L	1.5	106	70	130	1	20	
Silica	19.1	mg/L	0.21		70	130	0	20	A
Sample ID: R08120255-012D	Sample Matrix Spike		Run: SUB-C113039				01/05/09 18:28		
Boron	2.19	mg/L	0.10	105	70	130			
Iron	2.20	mg/L	0.030	102	70	130			
Silicon	5.43	mg/L	0.10		70	130			A
Calcium	136	mg/L	1.0	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R113039		
Sample ID: R08120255-012D	Sample Matrix Spike			Run: SUB-C113039			01/05/09 18:28		
Magnesium	116	mg/L	1.0	106	70	130			
Potassium	102	mg/L	1.0	93	70	130			
Sodium	394	mg/L	1.1	102	70	130			
Silica	11.6	mg/L	0.21		70	130			A
Sample ID: R08120255-012D	Sample Matrix Spike Duplicate			Run: SUB-C113039			01/05/09 18:32		
Boron	2.26	mg/L	0.10	109	70	130	3.2	20	
Iron	2.28	mg/L	0.030	106	70	130	3.5	20	
Silicon	5.59	mg/L	0.10		70	130	2.9	20	A
Calcium	137	mg/L	1.0	106	70	130	1	20	
Magnesium	118	mg/L	1.0	107	70	130	1.4	20	
Potassium	103	mg/L	1.0	94	70	130	1	20	
Sodium	412	mg/L	1.1	120	70	130	4.5	20	
Silica	12.0	mg/L	0.21		70	130	2.9	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20978		
Sample ID: MB-20978	Method Blank		Run: SUB-C112889			12/30/08 19:20			
Antimony	0.0002	mg/L	7E-05						
Arsenic	0.003	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Beryllium	3E-05	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	0.004	mg/L	4E-05						
Copper	0.0007	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	8E-05	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Selenium	ND	mg/L	0.0002						
Silver	0.0002	mg/L	3E-05						
Strontium	ND	mg/L	3E-05						
Thallium	0.0004	mg/L	1E-05						
Uranium	3E-05	mg/L	1E-05						
Zinc	0.0009	mg/L	0.0003						
Sample ID: MB-20978	Method Blank		Run: SUB-C112947			01/01/09 17:07			
Antimony	0.0009	mg/L	0.0002						
Arsenic	0.003	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Beryllium	ND	mg/L	0.0001						
Cadmium	ND	mg/L	3E-05						
Chromium	0.002	mg/L	5E-05						
Copper	0.002	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	6E-05	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	0.0004	mg/L	6E-05						
Selenium	0.0007	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	8E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.0008	mg/L	0.0003						
Sample ID: LCS3-20978	Laboratory Control Sample		Run: SUB-C112947			01/01/09 17:13			
Antimony	0.559	mg/L	0.050	112	85	115			
Arsenic	0.515	mg/L	0.0010	102	85	115			
Barium	0.519	mg/L	0.10	104	85	115			
Beryllium	0.256	mg/L	0.010	102	85	115			
Cadmium	0.254	mg/L	0.010	102	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20978		
Sample ID: LCS3-20978	Laboratory Control Sample			Run: SUB-C112947			01/01/09 17:13		
Chromium	0.528	mg/L	0.050	105	85	115			
Copper	0.486	mg/L	0.010	97	85	115			
Lead	0.512	mg/L	0.050	102	85	115			
Manganese	2.65	mg/L	0.010	106	85	115			
Molybdenum	0.536	mg/L	0.10	107	85	115			
Nickel	0.479	mg/L	0.050	96	85	115			
Selenium	0.517	mg/L	0.0010	103	85	115			
Silver	0.0485	mg/L	0.010	97	85	115			
Strontium	0.538	mg/L	0.10	108	85	115			
Thallium	0.535	mg/L	0.10	107	85	115			
Uranium	0.538	mg/L	0.00030	108	85	115			
Zinc	0.489	mg/L	0.010	98	85	115			
Sample ID: C08120822-001BMS3	Sample Matrix Spike			Run: SUB-C112947			01/01/09 18:14		
Antimony	0.604	mg/L	0.050	114	70	130			
Arsenic	0.514	mg/L	0.0010	102	70	130			
Barium	0.647	mg/L	0.10	106	70	130			
Beryllium	0.242	mg/L	0.010	97	70	130			
Cadmium	0.252	mg/L	0.010	99	70	130			
Chromium	0.528	mg/L	0.050	101	70	130			
Copper	1.69	mg/L	0.010	103	70	130			
Lead	0.509	mg/L	0.050	84	70	130			
Manganese	2.60	mg/L	0.010	102	70	130			
Molybdenum	0.553	mg/L	0.10	109	70	130			
Nickel	0.494	mg/L	0.050	95	70	130			
Selenium	0.504	mg/L	0.0010	98	70	130			
Silver	0.0619	mg/L	0.010	108	70	130			
Strontium	0.911	mg/L	0.10	105	70	130			
Thallium	0.417	mg/L	0.10	83	70	130			
Uranium	0.459	mg/L	0.00030	90	70	130			
Zinc	2.84	mg/L	0.010		70	130			A
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate			Run: SUB-C112947			01/01/09 18:21		
Antimony	0.599	mg/L	0.050	113	70	130	0.9	20	
Arsenic	0.512	mg/L	0.0010	102	70	130	0.5	20	
Barium	0.644	mg/L	0.10	105	70	130	0.5	20	
Beryllium	0.245	mg/L	0.010	98	70	130	1.1	20	
Cadmium	0.251	mg/L	0.010	99	70	130	0.5	20	
Chromium	0.524	mg/L	0.050	100	70	130	0.8	20	
Copper	1.67	mg/L	0.010	98	70	130	1.4	20	
Lead	0.505	mg/L	0.050	84	70	130	0.7	20	
Manganese	2.56	mg/L	0.010	101	70	130	1.2	20	
Molybdenum	0.548	mg/L	0.10	108	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_20978		
Sample ID: C08120822-001BMSD3	Sample Matrix Spike Duplicate		Run: SUB-C112947			01/01/09 18:21			
Nickel	0.490	mg/L	0.050	94	70	130	0.9	20	
Selenium	0.498	mg/L	0.0010	97	70	130	1.1	20	
Silver	0.0564	mg/L	0.010	97	70	130	9.2	20	
Strontium	0.892	mg/L	0.10	101	70	130	2.1	20	
Thallium	0.413	mg/L	0.10	83	70	130	1.1	20	
Uranium	0.455	mg/L	0.00030	89	70	130	0.8	20	
Zinc	2.84	mg/L	0.010		70	130	0.2	20	A

Method: E200.8							Batch: C_20988		
Sample ID: MB-20988	Method Blank		Run: SUB-C112968			01/01/09 21:17			
Uranium	ND	mg/L	0.004						
Sample ID: LCS1-20988	Laboratory Control Sample		Run: SUB-C112968			01/01/09 21:21			
Uranium	0.0977	mg/L	0.0037	98	80	120			

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R112751		
Sample ID: C08120718-005CMS4	Post Digestion Spike		Run: SUB-C112751			12/27/08 08:09			
Arsenic	0.488	mg/L	0.0010	97	70	130			
Barium	0.518	mg/L	0.10	100	70	130			
Cadmium	0.486	mg/L	0.010	97	70	130			
Copper	0.499	mg/L	0.010	92	70	130			
Lead	0.506	mg/L	0.050	101	70	130			
Manganese	1.31	mg/L	0.010	100	70	130			
Mercury	0.0527	mg/L	0.0010	105	70	130			
Molybdenum	0.446	mg/L	0.10	89	70	130			
Nickel	0.708	mg/L	0.050	91	70	130			
Silver	0.131	mg/L	0.010	65	70	130			S
Thorium 232	0.500	mg/L	0.0010	99	70	130			
Uranium	0.962	mg/L	0.00030	116	70	130			
Zinc	0.552	mg/L	0.010	97	70	130			
Sample ID: C08120718-005CMSD4	Post Digestion Spike Duplicate		Run: SUB-C112751			12/27/08 08:15			
Arsenic	0.495	mg/L	0.0010	99	70	130	1.4	20	
Barium	0.522	mg/L	0.10	101	70	130	0.9	20	
Cadmium	0.491	mg/L	0.010	98	70	130	1	20	
Copper	0.504	mg/L	0.010	93	70	130	1	20	
Lead	0.505	mg/L	0.050	101	70	130	0.2	20	
Manganese	1.32	mg/L	0.010	102	70	130	0.9	20	
Mercury	0.0542	mg/L	0.0010	108	70	130	2.8	20	
Molybdenum	0.455	mg/L	0.10	90	70	130	1.9	20	
Nickel	0.715	mg/L	0.050	93	70	130	1	20	
Silver	0.134	mg/L	0.010	67	70	130	2.5	20	S
Thorium 232	0.511	mg/L	0.0010	101	70	130	2.3	20	
Uranium	0.953	mg/L	0.00030	114	70	130	0.9	20	
Zinc	0.551	mg/L	0.010	97	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R112828		
Sample ID: LRB	Method Blank				Run: SUB-C112828		12/29/08 13:55		
Aluminum	0.002	mg/L	0.0001						
Chromium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C112828		12/29/08 14:02		
Aluminum	0.0484	mg/L	0.0010	93	85	115			
Chromium	0.0509	mg/L	0.0010	102	85	115			
Vanadium	0.0511	mg/L	0.0010	102	85	115			
Sample ID: R08120281-001C	Post Digestion Spike				Run: SUB-C112828		12/29/08 14:29		
Aluminum	0.0556	mg/L	0.10	93	70	130			
Chromium	0.0490	mg/L	0.050	98	70	130			
Vanadium	0.0495	mg/L	0.10	98	70	130			
Sample ID: R08120281-001C	Post Digestion Spike Duplicate				Run: SUB-C112828		12/29/08 14:36		
Aluminum	0.0553	mg/L	0.10	92	70	130	0	20	
Chromium	0.0488	mg/L	0.050	98	70	130	0	20	
Vanadium	0.0497	mg/L	0.10	98	70	130	0	20	
Method: E245.1							Batch: B_36516		
Sample ID: MB-36516	Method Blank				Run: SUB-B122673		12/26/08 14:51		
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-36516	Laboratory Fortified Blank				Run: SUB-B122673		12/26/08 14:53		
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: B08121922-007JMS	Sample Matrix Spike				Run: SUB-B122673		12/26/08 15:26		
Mercury	0.0020	mg/L	0.0010	99	70	130			
Sample ID: B08121922-007JMSD	Sample Matrix Spike Duplicate				Run: SUB-B122673		12/26/08 15:28		
Mercury	0.0020	mg/L	0.0010	100	70	130	1	30	
Method: E245.1							Analytical Run: SUB-B122673		
Sample ID: QCS	Initial Calibration Verification Standard						12/26/08 14:40		
Mercury	0.0019	mg/L	0.0010	97	90	110			

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R38961		
Sample ID: LFB0812241709-1	Laboratory Fortified Blank		Run: DIONEX_081224A			12/24/08 16:03			
Chloride	5.87	mg/L	0.50	117	90	110			S
Fluoride	2.05	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.26	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.53	mg/L	0.10	101	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: LFB0812241709-3	Laboratory Fortified Blank		Run: DIONEX_081224A			12/24/08 16:36			
Chloride	5.47	mg/L	0.50	109	90	110			
Fluoride	2.09	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.52	mg/L	0.10	101	90	110			
Sulfate	13.7	mg/L	1.0	91	90	110			
Sample ID: R08120270-001AMS	Sample Matrix Spike		Run: DIONEX_081224A			12/24/08 17:26			
Chloride	66.5	mg/L	0.54	79	80	120			S
Fluoride	11.3	mg/L	0.10	99	80	120			
Nitrogen, Nitrate as N	19.3	mg/L	0.13	88	80	120			
Nitrogen, Nitrite as N	11.9	mg/L	0.29	95	80	120			
Sulfate	353	mg/L	1.0		80	120			A
Sample ID: R08120270-001AMSD	Sample Matrix Spike Duplicate		Run: DIONEX_081224A			12/24/08 17:42			
Chloride	65.4	mg/L	0.54	74	80	120	1.7	10	S
Fluoride	11.3	mg/L	0.10	98	80	120	0.5	10	
Nitrogen, Nitrate as N	19.0	mg/L	0.13	85	80	120	1.6	10	
Nitrogen, Nitrite as N	11.7	mg/L	0.29	94	80	120	1.4	10	
Sulfate	348	mg/L	1.0		80	120	1.6	10	A

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S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/28/09
Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									
								Batch: C_GrAB-0591	
Sample ID: MB-GrAB-0591	Method Blank					Run: SUB-C113561			01/14/09 22:47
Gross Alpha	-0.2	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0591	Laboratory Control Sample					Run: SUB-C113561			01/14/09 22:47
Gross Alpha	130	pCi/L		95	70	130			
Sample ID: Cs137-GrAB-0591	Laboratory Control Sample					Run: SUB-C113561			01/14/09 22:47
Gross Beta	83	pCi/L		91	70	130			
Sample ID: C09010049-001AMS	Sample Matrix Spike					Run: SUB-C113561			01/14/09 22:47
Gross Alpha	170	pCi/L		122	70	130			
Sample ID: C09010049-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C113561			01/14/09 22:47
Gross Alpha	170	pCi/L		121	70	130	1	17	
Sample ID: C09010049-001AMS	Sample Matrix Spike					Run: SUB-C113561			01/14/09 22:47
Gross Beta	95	pCi/L		100	70	130			
Sample ID: C09010049-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-C113561			01/14/09 22:47
Gross Beta	97	pCi/L		102	70	130	2	16.1	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R112957		
Sample ID: LCS-R112957	Laboratory Control Sample			Run: SUB-C112957			12/29/08 12:00		
Americium 241	25000	pCi/L	20	83	70	130			
Cesium 137	43000	pCi/L	20	95	70	130			
Cobalt 60	30000	pCi/L	20	100	70	130			
Sample ID: MB-R112957	Method Blank			Run: SUB-C112957			12/29/08 12:00		
Gross Gamma	ND	pCi/L							U
Sample ID: R08120281-001H	Sample Duplicate			Run: SUB-C112957			12/29/08 12:00		
Gross Gamma	770	pCi/L					6.9	30	
Sample ID: R08120255-007H	Sample Duplicate			Run: SUB-C112957			12/29/08 12:00		
Americium 241	ND	pCi/L	20				0	30	
Barium 133	ND	pCi/L	20				0	30	
Bismuth 212	ND	pCi/L	20				0	30	
Bismuth 214	780	pCi/L	20				5.6	30	
Cesium 134	ND	pCi/L	20				0	30	
Cesium 137	ND	pCi/L	20				0	30	
Cobalt 60	ND	pCi/L	20				0	30	
Iodine 125	ND	pCi/L	20				0	30	
Iodine 131	ND	pCi/L	20				0	30	
Lead 212	ND	pCi/L	20				0	30	
Lead 214	760	pCi/L	20				1.9	30	
Manganese 54	ND	pCi/L	20				0	30	
Potassium 40	ND	pCi/L	20				0	30	
Radium 223	ND	pCi/L					0	30	
Radium 224	ND	pCi/L					0	30	
Thallium 208	ND	pCi/L	20				0	30	
Thorium 228	ND	pCi/L	20				0	30	
Thorium 234	ND	pCi/L	20				0	30	
Zinc 65	ND	pCi/L	20				0	30	
Radium 228	ND	pCi/L	20				0	30	
Gross Gamma	1500	pCi/L					1.9	30	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_20988		
Sample ID: R08120255-0051 Radium 226	Sample Duplicate 4.3	pCi/L			70	130	10		01/21/09 21:42 40.6
Sample ID: R08120255-0101 Radium 226	Sample Matrix Spike 33	pCi/L		95	70	130			Run: SUB-C113735 01/21/09 23:27
Sample ID: LCS-20988 Radium 226	Laboratory Control Sample 14	pCi/L		98	70	130			Run: SUB-C113735 01/22/09 01:17
Sample ID: MB-20988 Radium 226	Method Blank -0.3	pCi/L							Run: SUB-C113735 01/22/09 01:17 U
Method: E903.0							Batch: C_RA226-3344		
Sample ID: R08120255-001H Radium 226	Sample Matrix Spike 27	pCi/L		87	70	130			Run: SUB-C113059 01/05/09 12:37
Sample ID: R08120255-001H Radium 226	Sample Matrix Spike Duplicate 14	pCi/L		89	70	130	64	20.9	Run: SUB-C113059 01/05/09 12:37 R
- The RPD for the MSD is high because the MS was spiked twice. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-RA226-3344 Radium 226	Method Blank -0.09	pCi/L							Run: SUB-C113059 01/05/09 15:43 U
Sample ID: LCS-RA226-3344 Radium 226	Laboratory Control Sample 7.1	pCi/L		90	70	130			Run: SUB-C113059 01/05/09 15:43
Method: E907.0							Batch: C_20988		
Sample ID: C08120794-003AMS Thorium 230	Sample Matrix Spike 25.2	pCi/Filter	0.20	109	70	130			Run: SUB-C113220 01/08/09 08:37
Sample ID: C08120794-003AMSD Thorium 230	Sample Matrix Spike Duplicate 24.1	pCi/Filter	0.20	103	70	130	4.2	58.2	Run: SUB-C113220 01/08/09 08:37
Sample ID: LCS-20988 Thorium 230	Laboratory Control Sample 4.86	pCi/L	0.20	104	70	130			Run: SUB-C113220 01/08/09 08:37
Sample ID: MB-20988 Thorium 230	Method Blank -0.1	pCi/L							Run: SUB-C113220 01/08/09 08:37 U

Qualifiers:

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 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-0725		
Sample ID: LCS-RA-TH-ISO-0725 Thorium 230	Laboratory Control Sample 4.80 pCi/L		0.20	96	70	130			01/14/09 16:00
Sample ID: R08120281-001H Thorium 230	Sample Matrix Spike 23.8 pCi/L		0.20	98	70	130			01/14/09 16:00
Sample ID: R08120281-001H Thorium 230	Sample Matrix Spike Duplicate 21.0 pCi/L		0.20	92	70	130	12	41.1	01/14/09 16:00
Sample ID: MB-RA-TH-ISO-0725 Thorium 230	Method Blank 0.07 pCi/L								01/15/09 09:54 U
Method: E909.0M							Batch: C_20988		
Sample ID: R08120255-009I Lead 210	Sample Matrix Spike 1200 pCi/L			99	70	130			01/06/09 10:06
Sample ID: R08120255-009I Lead 210	Sample Matrix Spike Duplicate 1300 pCi/L			113	70	130	13	30	01/06/09 10:06
Sample ID: MB-R113352 Lead 210	Method Blank -2 pCi/L								01/06/09 10:06 U
Sample ID: LCS-R113352 Lead 210	Laboratory Control Sample 56 pCi/L			50	70	130			01/06/09 10:06 S
- LCS response is outside of the acceptance range for this analysis. Since the MS and MSD recoveries are acceptable the batch is approved.									
Method: E909.0M							Batch: C_R113310		
Sample ID: R08120255-004H Lead 210	Sample Matrix Spike 57 pCi/L			47	70	130			12/30/08 08:13 S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MB are acceptable the batch is approved.									
Sample ID: R08120255-010H Lead 210	Sample Duplicate 4.7 pCi/L						32	30	12/30/08 08:13 UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R113310 Lead 210	Method Blank 0.5 pCi/L								12/30/08 08:13 U
Sample ID: LCS-R113310 Lead 210	Laboratory Control Sample 62 pCi/L			106	70	130			12/30/08 08:13

Qualifiers:

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 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 01/28/09
 Work Order: R08120281

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_20988		
Sample ID: C08120790-003FMS Polonium 210	Sample Matrix Spike 160	pCi/L	1.0	96	70	130			01/16/09 12:03
Sample ID: C08120790-003FMSD Polonium 210	Sample Matrix Spike Duplicate 150	pCi/L	1.0	90	70	130	6.2	55.7	01/16/09 12:03
Sample ID: LCS-20988 Polonium 210	Laboratory Control Sample 84	pCi/L	1.0	98	70	130			01/16/09 12:03
Sample ID: MB-20988 Polonium 210	Method Blank 0.2	pCi/L							01/16/09 12:03 U
Method: RMO-3008							Batch: C_PO210-0173		
Sample ID: C08120771-001KMS Polonium 210	Sample Matrix Spike 15	pCi/L	1.0	98	70	130			01/09/09 13:47
Sample ID: C08120771-001KMSD Polonium 210	Sample Matrix Spike Duplicate 12	pCi/L	1.0	78	70	130	22	50.6	01/09/09 13:47
Sample ID: LCS-PO210-0173 Polonium 210	Laboratory Control Sample 18	pCi/L	1.0	103	70	130			01/09/09 13:47
Sample ID: MB-PO210-0173 Polonium 210	Method Blank 0.05	pCi/L							01/12/09 09:22 U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

****REPORT****

RESPEC Inc
Cory Foreman
3824 Jet Dr
Rapid City SD 57701



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Scott Env, R ESPEC Project Name, PWS, Permit, Etc. PowerTech - Burdick/Dwyer EPA/State Compliance: Yes No

Report Mail Address: R ESPEC Contact Name: Allen Scott Phone/Fax: Email: Sampler: (Please Print)

Invoice Address: R ESPEC Invoice Contact & Phone: Purchase Order: Quote/Bottle Order:

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA GSA EDD/EDT (Electronic Data) POTW/WWTP State: Other: LEVEL IV NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by:
				Number of Containers	Normal Turnaround (TAT)		
1 <u>6 w 6 88</u>	<u>12-22</u>	<u>9:45</u>	<u>Water</u>	<u>As per Quote</u>	<u>SEE ATTACHED</u>	R U S H	Receipt Temp <u>6.8 °C</u> Cooler ID(s): <u> </u> On Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No
2							Custody Seal Y N Intact Y N Signature Match Y N
3							
4							
5							
6							
7							
8							
9							
10							

Custody Record MUST be Signed

Relinquished by (print): Allen Scott Date/Time: 12-22-08 11:06 Received by (print): Date/Time:

Relinquished by (print): Date/Time: Received by (print): Date/Time:

Sample Disposal: Return to Client: Lab Disposal: Received by Laboratory: Steve Proband 12-22-08 10:56 Date/Time:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

LABORATORY USE ONLY
88120281-001



ANALYTICAL SUMMARY REPORT

March 17, 2009

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R09010301 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 14 samples for RESPEC Inc on 1/21/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R09010301-001	DewBurd BLK01	01/20/09 7:00	01/21/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved




ANALYTICAL SUMMARY REPORT

R09010301-002	DewBurd GW622	01/20/09 10:51	01/21/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R09010301-003	DewBurd GW622	01/20/09 10:55	01/21/09	Aqueous	Same As Above
R09010301-004	DewBurd GW615	01/20/09 11:10	01/21/09	Aqueous	Same As Above
R09010301-005	DewBurd GW695	01/20/09 12:15	01/21/09	Aqueous	Same As Above
R09010301-006	DewBurd GW697	01/20/09 12:35	01/21/09	Aqueous	Same As Above
R09010301-007	DewBurd GW681	01/20/09 12:50	01/21/09	Aqueous	Same As Above
R09010301-008	DewBurd GW689	01/20/09 13:05	01/21/09	Aqueous	Same As Above
R09010301-009	DewBurd GW698	01/20/09 14:07	01/21/09	Aqueous	Same As Above
R09010301-010	DewBurd GW3026	01/20/09 14:25	01/21/09	Aqueous	Same As Above
R09010301-011	DewBurd GW680	01/20/09 15:25	01/21/09	Aqueous	Same As Above
R09010301-012	DewBurd GW688	01/20/09 15:35	01/21/09	Aqueous	Same As Above
R09010301-013	DewBurd GW696	01/20/09 16:55	01/21/09	Aqueous	Same As Above
R09010301-014	DewBurd GW694	01/20/09 17:00	01/21/09	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 
 Linda Larson
 Rapid City - Project Manager



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-001
Client Sample ID: DewBurd BLK01

Report Date: 03/17/09
Collection Date: 01/20/09 07:00
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B 01/26/09 13:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 01/26/09 13:53/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B 01/26/09 13:53/mb
Calcium	ND	mg/L		0.5		1	E200.7 01/30/09 19:47/eli-c
Chloride	ND	mg/L		1		1	E300.0 01/21/09 22:11/jmh
Fluoride	ND	mg/L		0.1		1	E300.0 01/21/09 22:11/jmh
Magnesium	ND	mg/L		0.5		1	E200.7 01/30/09 19:47/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 01/21/09 17:07/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 01/21/09 22:11/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 01/21/09 22:11/jmh
Potassium	ND	mg/L		0.5		1	E200.7 01/30/09 19:47/eli-c
Sodium	ND	mg/L		0.5		1	E200.7 01/30/09 19:47/eli-c
Sulfate	ND	mg/L		1		1	E300.0 01/21/09 22:11/jmh
Silica	ND	mg/L		0.2		1	E200.7 01/30/09 19:47/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B 01/22/09 14:46/tb
Oxidation-Reduction Potential	310	mV				1	A2580 B 01/27/09 11:00/jmh
pH	6.01	s.u.		0.01		1	A4500-H B 01/22/09 10:01/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation 03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C 01/26/09 09:14/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 02/20/09 13:02/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 01/30/09 17:36/eli-c
Barium	ND	mg/L		0.1		1	E200.8 01/30/09 17:36/eli-c
Boron	ND	mg/L		0.1		1	E200.7 01/30/09 19:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 01/30/09 17:36/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 01/30/09 17:36/eli-c
Copper	ND	mg/L		0.01		1	E200.8 01/30/09 17:36/eli-c
Iron	ND	mg/L		0.03		1	E200.7 01/30/09 19:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8 01/30/09 17:36/eli-c
Manganese	ND	mg/L		0.01		1	E200.8 01/30/09 17:36/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 01/30/09 17:36/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 01/30/09 17:36/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 01/30/09 17:36/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 02/25/09 10:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8 01/30/09 17:36/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 01/30/09 17:36/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8 01/30/09 17:36/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-001
 Client Sample ID: DewBurd BLK01

Report Date: 03/17/09
 Collection Date: 01/20/09 07:00
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 17:36/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 17:36/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/18/09 22:55/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:06/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	2.6	pCi/L				1	E900.0	02/06/09 03:24/eli-ca
Gross Alpha precision (±)	0.7	pCi/L				1	E900.0	02/06/09 03:24/eli-ca
Gross Alpha MDC	0.8	pCi/L				1	E900.0	02/06/09 03:24/eli-ca
Gross Beta	-1	pCi/L	U			1	E900.0	02/06/09 03:24/eli-ca
Gross Beta precision (±)	1.4	pCi/L				1	E900.0	02/06/09 03:24/eli-ca
Gross Beta MDC	2.5	pCi/L				1	E900.0	02/06/09 03:24/eli-ca
Lead 210	0.6	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.050	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.67	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.30	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	02/05/09 12:53/eli-ca
Radium 226 precision (±)	0.09	pCi/L				1	E903.0	02/05/09 12:53/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/05/09 16:35/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	02/05/09 16:35/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	6.7	pCi/L	U			1	E909.0M	02/12/09 09:35/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Polonium 210	0.045	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.56	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	02/18/09 13:43/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/18/09 13:43/eli-ca

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-001
Client Sample ID: DewBurd BLK01

Report Date: 03/17/09
Collection Date: 01/20/09 07:00
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.5	pCi/L					1	E903.0	02/18/09 13:43/eli-ce
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	141	pCi/L		100			1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	60.9	pCi/L					1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	01/30/09 20:19/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	01/30/09 20:19/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/30/09 20:19/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/30/09 20:19/eli-c
Boron	ND	mg/L		0.1			1	E200.7	02/05/09 18:55/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/30/09 20:19/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/30/09 20:19/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/30/09 20:19/eli-c
Iron	ND	mg/L		0.03			1	E200.7	02/05/09 18:55/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/30/09 20:19/eli-c
Manganese	ND	mg/L		0.01			1	E200.8	01/30/09 20:19/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	01/26/09 10:22/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	01/30/09 20:19/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/30/09 20:19/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	02/06/09 15:37/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/30/09 20:19/eli-c
Strontium	ND	mg/L		0.1			1	E200.8	01/30/09 20:19/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	01/30/09 20:19/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	01/30/09 20:19/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/30/09 20:19/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-002
Client Sample ID: DewBurd GW622

Report Date: 03/17/09
Collection Date: 01/20/09 10:51
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	176	mg/L		5		1	A2320 B 01/26/09 13:55/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 01/26/09 13:55/mb
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B 01/26/09 13:55/mb
Calcium	84.7	mg/L		0.5		1	E200.7 01/30/09 19:52/eli-c
Chloride	10	mg/L		1		1	E300.0 01/21/09 23:50/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 01/21/09 23:50/jmh
Magnesium	29.7	mg/L		0.5		1	E200.7 01/30/09 19:52/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 01/21/09 17:08/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 01/21/09 23:50/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 01/21/09 23:50/jmh
Potassium	12.2	mg/L		0.5		1	E200.7 01/30/09 19:52/eli-c
Sodium	173	mg/L		0.5		1	E200.7 01/30/09 19:52/eli-c
Sulfate	499	mg/L	D	3		50	E300.0 01/21/09 23:00/jmh
Silica	7.4	mg/L		0.2		1	E200.7 01/30/09 19:52/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1310	umhos/cm		5.0		1	A2510 B 01/22/09 14:48/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B 01/27/09 11:00/jmh
pH	7.46	s.u.		0.01		1	A4500-H B 01/22/09 10:02/tb
Sodium Adsorption Ratio (SAR)	4.1	unitless		0.10		1	Calculation 03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C 01/26/09 09:15/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 02/18/09 14:01/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 01/30/09 17:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8 01/30/09 17:43/eli-c
Boron	ND	mg/L		0.1		1	E200.7 01/30/09 19:52/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 01/30/09 17:43/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 01/30/09 17:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8 01/30/09 17:43/eli-c
Iron	ND	mg/L		0.03		1	E200.7 01/30/09 19:52/eli-c
Lead	ND	mg/L		0.001		1	E200.8 01/30/09 17:43/eli-c
Manganese	0.17	mg/L		0.01		1	E200.8 01/30/09 17:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 01/30/09 17:43/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 01/30/09 17:43/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 01/30/09 17:43/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 02/25/09 10:14/eli-c
Silver	ND	mg/L		0.005		1	E200.8 01/30/09 17:43/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 01/30/09 17:43/eli-c
Uranium	0.0029	mg/L		0.0003		1	E200.8 01/30/09 17:43/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-002
 Client Sample ID: DewBurd GW622

Report Date: 03/17/09
 Collection Date: 01/20/09 10:51
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 01/30/09 17:43/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 01/30/09 17:43/eli-c
METALS - SUSPENDED							
Uranium	0.0003	mg/L		0.0003		1	E200.8 02/18/09 22:59/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 02/24/09 16:12/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	36.4	pCi/L				1	E900.0 02/06/09 03:23/eli-ca
Gross Alpha precision (±)	4.3	pCi/L				1	E900.0 02/06/09 03:23/eli-ca
Gross Alpha MDC	3.5	pCi/L				1	E900.0 02/06/09 03:23/eli-ca
Gross Beta	16.0	pCi/L				1	E900.0 02/06/09 03:23/eli-ca
Gross Beta precision (±)	2.9	pCi/L				1	E900.0 02/06/09 03:23/eli-ca
Gross Beta MDC	4.4	pCi/L				1	E900.0 02/06/09 03:23/eli-ca
Lead 210	0.3	pCi/L	U			1	E909.0M 02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M 02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M 02/03/09 10:43/eli-c
Polonium 210	0.063	pCi/L	U			1	RMO-3008 02/13/09 14:35/eli-c
Polonium 210 MDC	0.69	pCi/L				1	RMO-3008 02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.32	pCi/L				1	RMO-3008 02/13/09 14:35/eli-c
Radium 226	2.9	pCi/L				1	E903.0 02/05/09 12:53/eli-ca
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 02/05/09 12:53/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 02/05/09 16:36/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 02/05/09 16:36/eli-c
Gross Gamma	160	pCi/L				1	E901.1 02/04/09 14:00/eli-c
Gross Gamma precision (±)	73	pCi/L				1	E901.1 02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	8.1	pCi/L	U			1	E909.0M 02/12/09 09:35/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M 02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1	E909.0M 02/12/09 09:35/eli-c
Polonium 210	0.77	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.56	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Polonium 210 MDC	0.53	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0 02/18/09 13:43/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 02/18/09 13:43/eli-ca

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-002
 Client Sample ID: DewBurd GW622

Report Date: 03/17/09
 Collection Date: 01/20/09 10:51
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 MDC	0.5	pCi/L				1 E903.0	02/18/09 13:43/eli-ce
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - TOTAL							
Radon 222	1180	pCi/L		100		1 D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	72.3	pCi/L				1 D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	02/04/09 16:35/eli-c
Arsenic	0.003	mg/L	D	0.002		1 E200.8	02/04/09 16:35/eli-c
Barium	ND	mg/L		0.1		1 E200.8	02/04/09 16:35/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	02/04/09 16:35/eli-c
Boron	ND	mg/L		0.1		1 E200.7	02/07/09 03:17/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	02/04/09 16:35/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	02/04/09 16:35/eli-c
Copper	ND	mg/L		0.01		1 E200.8	02/04/09 16:35/eli-c
Iron	4.06	mg/L		0.03		1 E200.7	02/07/09 03:17/eli-c
Lead	0.008	mg/L		0.001		1 E200.8	02/04/09 16:35/eli-c
Manganese	0.19	mg/L		0.01		1 E200.8	02/04/09 16:35/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	01/26/09 10:24/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	02/04/09 16:35/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	02/04/09 16:35/eli-c
Selenium	ND	mg/L	D	0.002		1 E200.8	02/04/09 16:35/eli-c
Silver	ND	mg/L		0.005		1 E200.8	02/04/09 16:35/eli-c
Strontium	1.6	mg/L		0.1		1 E200.8	02/04/09 16:35/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	02/04/09 16:35/eli-c
Uranium	0.0056	mg/L		0.0003		1 E200.8	02/04/09 16:35/eli-c
Zinc	0.08	mg/L		0.01		1 E200.8	02/04/09 16:35/eli-c
DATA QUALITY							
A/C Balance (± 5)	1.07	%				1 A1030 E	03/16/09 00:00/lkl
Anions	14.2	meq/L				1 A1030 E	03/16/09 00:00/lkl
Cations	14.5	meq/L				1 A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	934	mg/L				1 A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.970					1 A1030 E	03/16/09 00:00/lkl

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 6 of 42
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-003
 Client Sample ID: DewBurd GW622

Report Date: 03/17/09
 Collection Date: 01/20/09 10:55
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	178	mg/L		5			1	A2320 B	01/26/09 13:57/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	01/26/09 13:57/mb
Bicarbonate as HCO3	217	mg/L		5			1	A2320 B	01/26/09 13:57/mb
Calcium	83.4	mg/L		0.5			1	E200.7	01/30/09 20:10/eli-c
Chloride	10	mg/L		1			1	E300.0	01/22/09 00:22/jmh
Fluoride	0.6	mg/L		0.1			1	E300.0	01/22/09 00:22/jmh
Magnesium	29.5	mg/L		0.5			1	E200.7	01/30/09 20:10/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1			1	A4500-NH3 G	01/21/09 17:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	01/22/09 00:22/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	01/22/09 00:22/jmh
Potassium	12.2	mg/L		0.5			1	E200.7	01/30/09 20:10/eli-c
Sodium	174	mg/L		0.5			1	E200.7	01/30/09 20:10/eli-c
Sulfate	492	mg/L	D	3			50	E300.0	01/22/09 00:06/jmh
Silica	7.4	mg/L		0.2			1	E200.7	01/30/09 20:10/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1310	umhos/cm		5.0			1	A2510 B	01/22/09 14:49/tb
Oxidation-Reduction Potential	270	mV					1	A2580 B	01/27/09 11:00/jmh
pH	7.53	s.u.		0.01			1	A4500-H B	01/22/09 10:04/tb
Sodium Adsorption Ratio (SAR)	4.2	unitless		0.10			1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5			1	A2540 C	01/26/09 09:17/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	02/03/09 17:11/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	01/30/09 18:16/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/30/09 18:16/eli-c
Boron	ND	mg/L		0.1			1	E200.7	01/30/09 20:10/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/30/09 18:16/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/30/09 18:16/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/30/09 18:16/eli-c
Iron	ND	mg/L		0.03			1	E200.7	01/30/09 20:10/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/30/09 18:16/eli-c
Manganese	0.18	mg/L		0.01			1	E200.8	01/30/09 18:16/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	02/03/09 17:11/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	01/30/09 18:16/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/30/09 18:16/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	02/25/09 10:16/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/30/09 18:16/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	01/30/09 18:16/eli-c
Uranium	0.0059	mg/L		0.0003			1	E200.8	01/30/09 18:16/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-003
 Client Sample ID: DewBurd GW622

Report Date: 03/17/09
 Collection Date: 01/20/09 10:55
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 01/30/09 18:16/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 01/30/09 18:16/eli-c
METALS - SUSPENDED							
Uranium	0.0005	mg/L		0.0003		1	E200.8 02/18/09 23:19/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 02/24/09 16:15/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	37.6	pCi/L				1	E900.0 02/06/09 03:24/eli-c
Gross Alpha precision (±)	4.4	pCi/L				1	E900.0 02/06/09 03:24/eli-c
Gross Alpha MDC	3.5	pCi/L				1	E900.0 02/06/09 03:24/eli-c
Gross Beta	16.1	pCi/L				1	E900.0 02/06/09 03:24/eli-c
Gross Beta precision (±)	2.9	pCi/L				1	E900.0 02/06/09 03:24/eli-c
Gross Beta MDC	4.4	pCi/L				1	E900.0 02/06/09 03:24/eli-c
Lead 210	0.8	pCi/L	U			1	E909.0M 02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M 02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M 02/03/09 10:43/eli-c
Polonium 210	0.024	pCi/L	U			1	RMO-3008 02/13/09 14:35/eli-c
Polonium 210 MDC	0.77	pCi/L				1	RMO-3008 02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008 02/13/09 14:35/eli-c
Radium 226	3.3	pCi/L				1	E903.0 02/05/09 12:53/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 02/05/09 12:53/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 02/05/09 16:36/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0 02/05/09 16:36/eli-c
Gross Gamma	100	pCi/L				1	E901.1 02/04/09 14:00/eli-c
Gross Gamma precision (±)	64	pCi/L				1	E901.1 02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	5.8	pCi/L	U			1	E909.0M 02/12/09 09:35/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M 02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1	E909.0M 02/12/09 09:35/eli-c
Polonium 210	0.82	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.59	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Polonium 210 MDC	0.62	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Radium 226	0.3	pCi/L	U			1	E903.0 02/18/09 13:43/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 02/18/09 13:43/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-003
Client Sample ID: DewBurd GW622

Report Date: 03/17/09
Collection Date: 01/20/09 10:55
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L					1 E903.0	02/18/09 13:43/eli-ce
Thorium 230	0.1	pCi/L	U	0.2			1 E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1 E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1360	pCi/L		100			1 D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	74.3	pCi/L					1 D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003			1 E200.8	02/04/09 16:42/eli-c
Arsenic	0.004	mg/L	D	0.002			1 E200.8	02/04/09 16:42/eli-c
Barium	ND	mg/L		0.1			1 E200.8	02/04/09 16:42/eli-c
Beryllium	ND	mg/L		0.001			1 E200.8	02/04/09 16:42/eli-c
Boron	ND	mg/L		0.1			1 E200.7	02/07/09 03:22/eli-c
Cadmium	ND	mg/L		0.005			1 E200.8	02/04/09 16:42/eli-c
Chromium	ND	mg/L		0.05			1 E200.8	02/04/09 16:42/eli-c
Copper	ND	mg/L		0.01			1 E200.8	02/04/09 16:42/eli-c
Iron	4.68	mg/L		0.03			1 E200.7	02/07/09 03:22/eli-c
Lead	0.010	mg/L		0.001			1 E200.8	02/04/09 16:42/eli-c
Manganese	0.19	mg/L		0.01			1 E200.8	02/04/09 16:42/eli-c
Mercury	ND	mg/L		0.001			1 E245.1	01/26/09 10:27/eli-b
Molybdenum	ND	mg/L		0.1			1 E200.8	02/04/09 16:42/eli-c
Nickel	ND	mg/L		0.05			1 E200.8	02/04/09 16:42/eli-c
Selenium	ND	mg/L		0.001			1 E200.8	02/04/09 16:42/eli-c
Silver	ND	mg/L		0.005			1 E200.8	02/04/09 16:42/eli-c
Strontium	1.6	mg/L		0.1			1 E200.8	02/04/09 16:42/eli-c
Thallium	ND	mg/L		0.001			1 E200.8	02/04/09 16:42/eli-c
Uranium	0.0056	mg/L		0.0003			1 E200.8	02/04/09 16:42/eli-c
Zinc	0.09	mg/L		0.01			1 E200.8	02/04/09 16:42/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.26	%					1 A1030 E	03/16/09 00:00/kl
Anions	14.1	meq/L					1 A1030 E	03/16/09 00:00/kl
Cations	14.5	meq/L					1 A1030 E	03/16/09 00:00/kl
Solids, Total Dissolved Calculated	928	mg/L					1 A1030 E	03/16/09 00:00/kl
TDS Balance (0.80 - 1.20)	1.03						1 A1030 E	03/16/09 00:00/kl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-004
 Client Sample ID: DewBurd GW615

Report Date: 03/17/09
 Collection Date: 01/20/09 11:10
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B 01/26/09 14:00/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 01/26/09 14:00/mb
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B 01/26/09 14:00/mb
Calcium	70.3	mg/L		0.5		1	E200.7 01/30/09 20:15/eli-c
Chloride	5	mg/L		1		1	E300.0 01/22/09 00:55/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 01/22/09 00:55/jmh
Magnesium	21.0	mg/L		0.5		1	E200.7 01/30/09 20:15/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 01/21/09 17:10/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 01/22/09 00:55/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 01/22/09 00:55/jmh
Potassium	9.8	mg/L		0.5		1	E200.7 01/30/09 20:15/eli-c
Sodium	131	mg/L		0.5		1	E200.7 01/30/09 20:15/eli-c
Sulfate	389	mg/L	D	3		50	E300.0 01/22/09 00:39/jmh
Silica	7.8	mg/L		0.2		1	E200.7 01/30/09 20:15/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1050	umhos/cm		5.0		1	A2510 B 01/22/09 14:51/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B 01/27/09 11:00/jmh
pH	7.19	s.u.		0.01		1	A4500-H B 01/22/09 10:06/tb
Sodium Adsorption Ratio (SAR)	3.5	unitless		0.10		1	Calculation 03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	720	mg/L		5		1	A2540 C 01/26/09 09:18/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 02/03/09 17:18/eli-c
Arsenic	0.014	mg/L		0.001		1	E200.8 01/30/09 18:23/eli-c
Barium	ND	mg/L		0.1		1	E200.8 01/30/09 18:23/eli-c
Boron	ND	mg/L		0.1		1	E200.7 01/30/09 20:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 01/30/09 18:23/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 01/30/09 18:23/eli-c
Copper	ND	mg/L		0.01		1	E200.8 01/30/09 18:23/eli-c
Iron	0.13	mg/L		0.03		1	E200.7 01/30/09 20:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8 01/30/09 18:23/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8 01/30/09 18:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 02/03/09 17:18/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 01/30/09 18:23/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 01/30/09 18:23/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 02/25/09 10:18/eli-c
Silver	ND	mg/L		0.005		1	E200.8 01/30/09 18:23/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 01/30/09 18:23/eli-c
Uranium	0.0027	mg/L		0.0003		1	E200.8 01/30/09 18:23/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-004
 Client Sample ID: DewBurd GW615

Report Date: 03/17/09
 Collection Date: 01/20/09 11:10
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 18:23/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 18:23/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/18/09 23:23/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:17/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	21.1	pCi/L				1	E900.0	02/06/09 03:24/eli-c
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	02/06/09 03:24/eli-c
Gross Alpha MDC	2.7	pCi/L				1	E900.0	02/06/09 03:24/eli-c
Gross Beta	10.4	pCi/L				1	E900.0	02/06/09 03:24/eli-c
Gross Beta precision (±)	2.1	pCi/L				1	E900.0	02/06/09 03:24/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0	02/06/09 03:24/eli-c
Lead 210	1.2	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	-0.027	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.54	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	1.8	pCi/L				1	E903.0	02/05/09 12:53/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	02/05/09 12:53/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/05/09 16:36/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	02/05/09 16:36/eli-c
Gross Gamma	32	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	18	pCi/L				1	E901.1	02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	5.8	pCi/L	U			1	E909.0M	02/12/09 09:35/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1	E909.0M	02/12/09 09:35/eli-c
Polonium 210	0.14	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.32	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.57	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	02/18/09 13:43/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	02/18/09 13:43/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-004
Client Sample ID: DewBurd GW615

Report Date: 03/17/09
Collection Date: 01/20/09 11:10
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:43/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1630	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	77.2	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/30/09 20:25/eli-c
Arsenic	0.024	mg/L		0.001		1	E200.8	01/30/09 20:25/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 20:25/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	01/30/09 20:25/eli-c
Boron	ND	mg/L	D	0.4		10	E200.7	02/05/09 19:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 20:25/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 20:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 20:25/eli-c
Iron	1.3	mg/L	D	0.2		10	E200.7	02/05/09 19:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 20:25/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	01/30/09 20:25/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:29/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 20:25/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 20:25/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 17:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 20:25/eli-c
Strontium	1.5	mg/L		0.1		1	E200.8	01/30/09 20:25/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 20:25/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	01/30/09 20:25/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 20:25/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.660	%				1	A1030 E	03/16/09 00:00/lkl
Anions	11.0	meq/L				1	A1030 E	03/16/09 00:00/lkl
Cations	11.2	meq/L				1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	730	mg/L				1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	03/16/09 00:00/lkl

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-005
Client Sample ID: DewBurd GW695

Report Date: 03/17/09
Collection Date: 01/20/09 12:15
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	174	mg/L		5			1	A2320 B	01/26/09 14:19/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	01/26/09 14:19/mb
Bicarbonate as HCO3	212	mg/L		5			1	A2320 B	01/26/09 14:19/mb
Calcium	49.8	mg/L		0.5			2	E200.7	01/30/09 20:19/eli-c
Chloride	12	mg/L		1			1	E300.0	01/22/09 01:28/jmh
Fluoride	0.6	mg/L		0.1			1	E300.0	01/22/09 01:28/jmh
Magnesium	18.3	mg/L		0.5			2	E200.7	01/30/09 20:19/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	01/21/09 17:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	01/22/09 01:28/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	01/22/09 01:28/jmh
Potassium	9.5	mg/L		0.5			2	E200.7	01/30/09 20:19/eli-c
Sodium	247	mg/L		0.5			2	E200.7	01/30/09 20:19/eli-c
Sulfate	500	mg/L	D	3			50	E300.0	01/22/09 01:12/jmh
Silica	7.9	mg/L		0.2			2	E200.7	01/30/09 20:19/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1350	umhos/cm		5.0			1	A2510 B	01/22/09 14:52/tb
Oxidation-Reduction Potential	260	mV					1	A2580 B	01/27/09 11:00/jmh
pH	7.81	s.u.		0.01			1	A4500-H B	01/22/09 10:07/tb
Sodium Adsorption Ratio (SAR)	7.6	unitless		0.10			1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	910	mg/L		5			1	A2540 C	01/26/09 09:18/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	02/03/09 17:25/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	01/30/09 18:30/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/30/09 18:30/eli-c
Boron	ND	mg/L		0.1			2	E200.7	01/30/09 20:19/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/30/09 18:30/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/30/09 18:30/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/30/09 18:30/eli-c
Iron	ND	mg/L		0.03			2	E200.7	01/30/09 20:19/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/30/09 18:30/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	01/30/09 18:30/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	02/03/09 17:25/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	01/30/09 18:30/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/30/09 18:30/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	02/25/09 10:21/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/30/09 18:30/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	01/30/09 18:30/eli-c
Uranium	0.0031	mg/L		0.0003			1	E200.8	01/30/09 18:30/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-005
 Client Sample ID: DewBurd GW695

Report Date: 03/17/09
 Collection Date: 01/20/09 12:15
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 01/30/09 18:30/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 01/30/09 18:30/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 02/18/09 23:27/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 02/24/09 16:19/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	35.8	pCi/L				1	E900.0 02/06/09 03:24/eli-ca
Gross Alpha precision (±)	4.3	pCi/L				1	E900.0 02/06/09 03:24/eli-ca
Gross Alpha MDC	3.6	pCi/L				1	E900.0 02/06/09 03:24/eli-ca
Gross Beta	12.1	pCi/L				1	E900.0 02/06/09 03:24/eli-ca
Gross Beta precision (±)	2.8	pCi/L				1	E900.0 02/06/09 03:24/eli-ca
Gross Beta MDC	4.4	pCi/L				1	E900.0 02/06/09 03:24/eli-ca
Lead 210	1.5	pCi/L	U			1	E909.0M 02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M 02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M 02/03/09 10:43/eli-c
Polonium 210	0.051	pCi/L	U			1	RMO-3008 02/13/09 14:35/eli-c
Polonium 210 MDC	0.74	pCi/L				1	RMO-3008 02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008 02/13/09 14:35/eli-c
Radium 226	4.5	pCi/L				1	E903.0 02/05/09 12:53/eli-ca
Radium 226 precision (±)	0.5	pCi/L				1	E903.0 02/05/09 12:53/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0 02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0 02/06/09 08:45/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1 02/04/09 14:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	6.6	pCi/L	U			1	E909.0M 02/12/09 09:35/eli-c
Lead 210 precision (±)	5.2	pCi/L				1	E909.0M 02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1	E909.0M 02/12/09 09:35/eli-c
Polonium 210	0.13	pCi/L	U			1	RMO-3008 02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Polonium 210 MDC	0.51	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0 02/18/09 13:43/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0 02/18/09 13:43/eli-ca

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-005
Client Sample ID: DewBurd GW695

Report Date: 03/17/09
Collection Date: 01/20/09 12:15
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.5	pCi/L					1	E903.0	02/18/09 13:43/eli-ca
Thorium 230	0.0	pCi/L	U	0.2			1	E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	1840	pCi/L		100			1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	78.9	pCi/L					1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	01/30/09 20:32/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	01/30/09 20:32/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/30/09 20:32/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/30/09 20:32/eli-c
Boron	ND	mg/L		0.1			2	E200.7	02/05/09 19:14/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/30/09 20:32/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/30/09 20:32/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/30/09 20:32/eli-c
Iron	0.13	mg/L	D	0.04			2	E200.7	02/05/09 19:14/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/30/09 20:32/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	01/30/09 20:32/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	01/26/09 10:31/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	01/30/09 20:32/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/30/09 20:32/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	02/04/09 17:49/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/30/09 20:32/eli-c
Strontium	1.0	mg/L		0.1			1	E200.8	01/30/09 20:32/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	01/30/09 20:32/eli-c
Uranium	0.0031	mg/L		0.0003			1	E200.8	01/30/09 20:32/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/30/09 20:32/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.54	%					1	A1030 E	03/16/09 00:00/lkl
Anions	14.3	meq/L					1	A1030 E	03/16/09 00:00/lkl
Cations	15.0	meq/L					1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	962	mg/L					1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	03/16/09 00:00/lkl

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 15 of 42
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-006
 Client Sample ID: DewBurd GW697

Report Date: 03/17/09
 Collection Date: 01/20/09 12:35
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	168	mg/L		5			1	A2320 B	01/26/09 14:21/mb
Carbonate as CO3	ND	mg/L			5		1	A2320 B	01/26/09 14:21/mb
Bicarbonate as HCO3	205	mg/L			5		1	A2320 B	01/26/09 14:21/mb
Calcium	49.7	mg/L		0.5			2	E200.7	01/30/09 20:24/eli-c
Chloride	8	mg/L		1			1	E300.0	01/22/09 03:07/jmh
Fluoride	0.7	mg/L		0.1			1	E300.0	01/22/09 03:07/jmh
Magnesium	16.4	mg/L		0.5			2	E200.7	01/30/09 20:24/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	01/21/09 17:18/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	01/22/09 03:07/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	01/22/09 03:07/jmh
Potassium	8.6	mg/L		0.5			2	E200.7	01/30/09 20:24/eli-c
Sodium	206	mg/L		0.5			2	E200.7	01/30/09 20:24/eli-c
Sulfate	444	mg/L	D	3			50	E300.0	01/22/09 02:17/jmh
Silica	7.9	mg/L		0.2			2	E200.7	01/30/09 20:24/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1220	umhos/cm		5.0			1	A2510 B	01/22/09 14:54/tb
Oxidation-Reduction Potential	270	mV					1	A2580 B	01/27/09 11:00/jmh
pH	7.73	s.u.		0.01			1	A4500-H B	01/22/09 10:08/tb
Sodium Adsorption Ratio (SAR)	6.5	unitless		0.10			1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	820	mg/L		5			1	A2540 C	01/26/09 09:19/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	02/03/09 17:32/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	01/30/09 18:37/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/30/09 18:37/eli-c
Boron	ND	mg/L		0.1			2	E200.7	01/30/09 20:24/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/30/09 18:37/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/30/09 18:37/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/30/09 18:37/eli-c
Iron	ND	mg/L		0.03			2	E200.7	01/30/09 20:24/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/30/09 18:37/eli-c
Manganese	0.05	mg/L		0.01			1	E200.8	01/30/09 18:37/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	02/03/09 17:32/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	01/30/09 18:37/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/30/09 18:37/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	02/25/09 10:23/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/30/09 18:37/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	01/30/09 18:37/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	01/30/09 18:37/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-006
Client Sample ID: DewBurd GW697

Report Date: 03/17/09
Collection Date: 01/20/09 12:35
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1 E200.8	01/30/09 18:37/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	01/30/09 18:37/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	02/18/09 23:31/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/24/09 16:22/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	21.7	pCi/L				1 E900.0	02/07/09 01:11/eli-ca
Gross Alpha precision (±)	3.4	pCi/L				1 E900.0	02/07/09 01:11/eli-ca
Gross Alpha MDC	3.3	pCi/L				1 E900.0	02/07/09 01:11/eli-ca
Gross Beta	12.5	pCi/L				1 E900.0	02/07/09 01:11/eli-ca
Gross Beta precision (±)	2.8	pCi/L				1 E900.0	02/07/09 01:11/eli-ca
Gross Beta MDC	4.3	pCi/L				1 E900.0	02/07/09 01:11/eli-ca
Lead 210	0.6	pCi/L	U			1 E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1 E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1 E909.0M	02/03/09 10:43/eli-c
Polonium 210	-0.027	pCi/L	U			1 RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.54	pCi/L				1 RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.20	pCi/L				1 RMO-3008	02/13/09 14:35/eli-c
Radium 226	0.9	pCi/L				1 E903.0	02/05/09 12:53/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	02/05/09 12:53/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1 E907.0	02/06/09 08:45/eli-c
Gross Gamma	0.0	pCi/L	U			1 E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	2.9	pCi/L	U			1 E909.0M	02/12/09 09:35/eli-c
Lead 210 precision (±)	5.1	pCi/L				1 E909.0M	02/12/09 09:35/eli-c
Lead 210 MDC	8.5	pCi/L				1 E909.0M	02/12/09 09:35/eli-c
Polonium 210	-0.0097	pCi/L	U			1 RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.18	pCi/L				1 RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.45	pCi/L				1 RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.2	pCi/L	U			1 E903.0	02/18/09 13:43/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	02/18/09 13:43/eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-006
 Client Sample ID: DewBurd GW697

Report Date: 03/17/09
 Collection Date: 01/20/09 12:35
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.4	pCi/L					1 E903.0	02/18/09 13:43/eli-ca
Thorium 230	-0.2	pCi/L	U	0.2			1 E907.0	03/03/09 16:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1 E907.0	03/03/09 16:30/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	299	pCi/L		100			1 D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	60.7	pCi/L					1 D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003			1 E200.8	01/30/09 20:39/eli-c
Arsenic	0.001	mg/L		0.001			1 E200.8	01/30/09 20:39/eli-c
Barium	ND	mg/L		0.1			1 E200.8	01/30/09 20:39/eli-c
Beryllium	ND	mg/L		0.001			1 E200.8	01/30/09 20:39/eli-c
Boron	ND	mg/L		0.1		2	E200.7	02/05/09 19:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 20:39/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 20:39/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 20:39/eli-c
Iron	ND	mg/L	D	0.04		2	E200.7	02/05/09 19:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 20:39/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	01/30/09 20:39/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:34/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 20:39/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 20:39/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 17:56/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 20:39/eli-c
Strontium	1.2	mg/L		0.1		1	E200.8	01/30/09 20:39/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	01/30/09 20:39/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/30/09 20:39/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 20:39/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.640	%					1 A1030 E	03/16/09 00:00/lkl
Anions	12.9	meq/L					1 A1030 E	03/16/09 00:00/lkl
Cations	13.0	meq/L					1 A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	856	mg/L					1 A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.960						1 A1030 E	03/16/09 00:00/lkl

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-007
Client Sample ID: DewBurd GW681

Report Date: 03/17/09
Collection Date: 01/20/09 12:50
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	170	mg/L		5		1	A2320 B 01/26/09 14:23/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 01/26/09 14:23/mb
Bicarbonate as HCO3	207	mg/L		5		1	A2320 B 01/26/09 14:23/mb
Calcium	53.6	mg/L		0.5		2	E200.7 01/30/09 20:28/eli-c
Chloride	13	mg/L		1		1	E300.0 01/22/09 03:39/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 01/22/09 03:39/jmh
Magnesium	20.9	mg/L		0.5		2	E200.7 01/30/09 20:28/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 01/21/09 17:19/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 01/22/09 03:39/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 01/22/09 03:39/jmh
Potassium	10	mg/L		0.5		2	E200.7 01/30/09 20:28/eli-c
Sodium	213	mg/L		0.5		2	E200.7 01/30/09 20:28/eli-c
Sulfate	465	mg/L	D	3		50	E300.0 01/22/09 03:23/jmh
Silica	7.8	mg/L		0.2		2	E200.7 01/30/09 20:28/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1310	umhos/cm		5.0		1	A2510 B 01/22/09 14:56/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B 01/27/09 11:00/jmh
pH	7.85	s.u.		0.01		1	A4500-H B 01/22/09 10:10/tb
Sodium Adsorption Ratio (SAR)	6.2	unitless		0.10		1	Calculation 03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L		5		1	A2540 C 01/26/09 09:19/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 02/03/09 17:38/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8 01/30/09 18:44/eli-c
Barium	ND	mg/L		0.1		1	E200.8 01/30/09 18:44/eli-c
Boron	ND	mg/L		0.1		2	E200.7 01/30/09 20:28/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 01/30/09 18:44/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 01/30/09 18:44/eli-c
Copper	ND	mg/L		0.01		1	E200.8 01/30/09 18:44/eli-c
Iron	ND	mg/L		0.03		2	E200.7 01/30/09 20:28/eli-c
Lead	ND	mg/L		0.001		1	E200.8 01/30/09 18:44/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8 01/30/09 18:44/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 02/03/09 17:38/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 01/30/09 18:44/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 01/30/09 18:44/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 02/25/09 10:30/eli-c
Silver	ND	mg/L		0.005		1	E200.8 01/30/09 18:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 01/30/09 18:44/eli-c
Uranium	0.0081	mg/L		0.0003		1	E200.8 01/30/09 18:44/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-007
Client Sample ID: DewBurd GW681

Report Date: 03/17/09
Collection Date: 01/20/09 12:50
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 01/30/09 18:44/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 01/30/09 18:44/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 02/19/09 00:16/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 02/24/09 16:28/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1210	pCi/L				1	E900.0 02/07/09 01:11/eli-ca
Gross Alpha precision (±)	21.8	pCi/L				1	E900.0 02/07/09 01:11/eli-ca
Gross Alpha MDC	3.4	pCi/L				1	E900.0 02/07/09 01:11/eli-ca
Gross Beta	361	pCi/L				1	E900.0 02/07/09 01:11/eli-ca
Gross Beta precision (±)	6.5	pCi/L				1	E900.0 02/07/09 01:11/eli-ca
Gross Beta MDC	4.4	pCi/L				1	E900.0 02/07/09 01:11/eli-ca
Lead 210	11.5	pCi/L				1	E909.0M 02/03/09 10:43/eli-c
Lead 210 precision (±)	2.7	pCi/L				1	E909.0M 02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M 02/03/09 10:43/eli-c
Polonium 210	3.8	pCi/L				1	RMO-3008 02/13/09 14:35/eli-c
Polonium 210 MDC	0.75	pCi/L				1	RMO-3008 02/13/09 14:35/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008 02/13/09 14:35/eli-c
Radium 226	258	pCi/L				1	E903.0 02/05/09 12:53/eli-ca
Radium 226 precision (±)	3.6	pCi/L				1	E903.0 02/05/09 12:53/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0 02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 02/06/09 08:45/eli-c
Gross Gamma	190	pCi/L				1	E901.1 02/04/09 14:00/eli-c
Gross Gamma precision (±)	46	pCi/L				1	E901.1 02/04/09 14:00/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	2.2	pCi/L	U			1	E909.0M 03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M 03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M 03/10/09 13:35/eli-c
Polonium 210	1.7	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.88	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Polonium 210 MDC	0.65	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Radium 226	1.1	pCi/L				1	E903.0 02/18/09 13:41/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 02/18/09 13:41/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0 02/18/09 13:41/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-007
Client Sample ID: DewBurd GW681

Report Date: 03/17/09
Collection Date: 01/20/09 12:50
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Thorium 230	0.1	pCi/L	U	0.2		1 E907.0	02/26/09 08:59/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	02/26/09 08:59/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - TOTAL							
Radon 222	133000	pCi/L		100		1 D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	469	pCi/L				1 D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	01/30/09 21:13/eli-c
Arsenic	0.001	mg/L		0.001		1 E200.8	02/04/09 18:03/eli-c
Barium	ND	mg/L		0.1		1 E200.8	01/30/09 21:13/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	01/30/09 21:13/eli-c
Boron	ND	mg/L		0.1		2 E200.7	02/05/09 19:23/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	01/30/09 21:13/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	01/30/09 21:13/eli-c
Copper	ND	mg/L		0.01		1 E200.8	01/30/09 21:13/eli-c
Iron	0.07	mg/L	D	0.04		2 E200.7	02/05/09 19:23/eli-c
Lead	ND	mg/L		0.001		1 E200.8	01/30/09 21:13/eli-c
Manganese	0.07	mg/L		0.01		1 E200.8	01/30/09 21:13/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	01/26/09 10:41/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	02/04/09 18:03/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	01/30/09 21:13/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	02/04/09 18:03/eli-c
Silver	ND	mg/L		0.005		1 E200.8	01/30/09 21:13/eli-c
Strontium	1.1	mg/L		0.1		1 E200.8	02/04/09 18:03/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	01/30/09 21:13/eli-c
Uranium	0.0084	mg/L		0.0003		1 E200.8	01/30/09 21:13/eli-c
Zinc	0.01	mg/L		0.01		1 E200.8	01/30/09 21:13/eli-c
DATA QUALITY							
A/C Balance (± 5)	1.57	%				1 A1030 E	03/16/09 00:00/kl
Anions	13.5	meq/L				1 A1030 E	03/16/09 00:00/kl
Cations	13.9	meq/L				1 A1030 E	03/16/09 00:00/kl
Solids, Total Dissolved Calculated	899	mg/L				1 A1030 E	03/16/09 00:00/kl
TDS Balance (0.80 - 1.20)	1.05					1 A1030 E	03/16/09 00:00/kl

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-008
 Client Sample ID: DewBurd GW689

Report Date: 03/17/09
 Collection Date: 01/20/09 13:05
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	150	mg/L		5		1	A2320 B	01/26/09 14:25/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:25/mb
Bicarbonate as HCO3	183	mg/L		5		1	A2320 B	01/26/09 14:25/mb
Calcium	44.8	mg/L		0.5		1	E200.7	01/30/09 20:32/eli-c
Chloride	5	mg/L		1		1	E300.0	01/22/09 04:12/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	01/22/09 04:12/jmh
Magnesium	15.5	mg/L		0.5		1	E200.7	01/30/09 20:32/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:20/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 04:12/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 04:12/jmh
Potassium	9.0	mg/L		0.5		1	E200.7	01/30/09 20:32/eli-c
Sodium	177	mg/L		0.5		1	E200.7	01/30/09 20:32/eli-c
Sulfate	399	mg/L	D	3		50	E300.0	01/22/09 03:56/jmh
Silica	8.3	mg/L		0.2		1	E200.7	01/30/09 20:32/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1080	umhos/cm		5.0		1	A2510 B	01/22/09 14:59/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	01/27/09 11:00/jmh
pH	7.71	s.u.		0.01		1	A4500-H B	01/22/09 10:13/tb
Sodium Adsorption Ratio (SAR)	5.8	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	780	mg/L		5		1	A2540 C	01/26/09 09:20/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 17:45/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	01/30/09 18:50/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 18:50/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/30/09 20:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 18:50/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 18:50/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 18:50/eli-c
Iron	ND	mg/L		0.03		1	E200.7	01/30/09 20:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 18:50/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	01/30/09 18:50/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 17:45/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 18:50/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 18:50/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 18:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 18:50/eli-c
Uranium	0.0035	mg/L		0.0003		1	E200.8	01/30/09 18:50/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-008
Client Sample ID: DewBurd GW689

Report Date: 03/17/09
Collection Date: 01/20/09 13:05
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1	1	E200.8	01/30/09 18:50/eli-c
Zinc	ND	mg/L		0.01	1	E200.8	01/30/09 18:50/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003	1	E200.8	02/19/09 00:20/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001	1	A3114 B	02/24/09 16:31/eli-c
Selenium-VI	ND	mg/L		0.001	1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	52.8	pCi/L			1	E900.0	02/07/09 01:11/eli-ca
Gross Alpha precision (±)	4.4	pCi/L			1	E900.0	02/07/09 01:11/eli-ca
Gross Alpha MDC	2.8	pCi/L			1	E900.0	02/07/09 01:11/eli-ca
Gross Beta	17.6	pCi/L			1	E900.0	02/07/09 01:11/eli-ca
Gross Beta precision (±)	2.3	pCi/L			1	E900.0	02/07/09 01:11/eli-ca
Gross Beta MDC	3.3	pCi/L			1	E900.0	02/07/09 01:11/eli-ca
Lead 210	-0.4	pCi/L	U		1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L			1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	-0.031	pCi/L	U		1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.62	pCi/L			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.22	pCi/L			1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	6.1	pCi/L			1	E903.0	02/05/09 14:35/eli-ca
Radium 226 precision (±)	0.5	pCi/L			1	E903.0	02/05/09 14:35/eli-ca
Thorium 230	0.0	pCi/L	U	0.2	1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.09	pCi/L			1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	1000	pCi/L			1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	170	pCi/L			1	E901.1	02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	-6	pCi/L	U		1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.7	pCi/L			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L			1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	0.025	pCi/L	U		1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.30	pCi/L			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.68	pCi/L			1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.4	pCi/L	U		1	E903.0	02/18/09 13:41/eli-ca
Radium 226 precision (±)	0.2	pCi/L			1	E903.0	02/18/09 13:41/eli-ca

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level. Page 23 of 42
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-008
 Client Sample ID: DewBurd GW689

Report Date: 03/17/09
 Collection Date: 01/20/09 13:05
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:41/eli-ca
Thorium 230	-0.2	pCi/L	U	0.2		1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1850	pCi/L		100		1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	78.7	pCi/L				1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/04/09 16:48/eli-c
Arsenic	ND	mg/L	D	0.002		1	E200.8	02/04/09 16:48/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/04/09 16:48/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/04/09 16:48/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/07/09 03:26/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/04/09 16:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/04/09 16:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/04/09 16:48/eli-c
Iron	0.62	mg/L		0.03		1	E200.7	02/07/09 03:26/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/04/09 16:48/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	02/04/09 16:48/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	01/26/09 10:43/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/04/09 16:48/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/04/09 16:48/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/04/09 16:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/04/09 16:48/eli-c
Strontium	1.0	mg/L		0.1		1	E200.8	02/04/09 16:48/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/04/09 16:48/eli-c
Uranium	0.0036	mg/L		0.0003		1	E200.8	02/04/09 16:48/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/04/09 16:48/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.130	%				1	A1030 E	03/16/09 00:00/kl
Anions	11.5	meq/L				1	A1030 E	03/16/09 00:00/kl
Cations	11.5	meq/L				1	A1030 E	03/16/09 00:00/kl
Solids, Total Dissolved Calculated	765	mg/L				1	A1030 E	03/16/09 00:00/kl
TDS Balance (0.80 - 1.20)	1.02					1	A1030 E	03/16/09 00:00/kl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-009
 Client Sample ID: DewBurd GW698

Report Date: 03/17/09
 Collection Date: 01/20/09 14:07
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO ₃	118	mg/L		5		1	A2320 B	01/26/09 14:28/mb
Carbonate as CO ₃	ND	mg/L		5		1	A2320 B	01/26/09 14:28/mb
Bicarbonate as HCO ₃	144	mg/L		5		1	A2320 B	01/26/09 14:28/mb
Calcium	341	mg/L		0.5		2	E200.7	01/30/09 20:37/eli-c
Chloride	10	mg/L		.1		1	E300.0	01/22/09 04:45/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	01/22/09 04:45/jmh
Magnesium	127	mg/L		0.5		2	E200.7	01/30/09 20:37/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:21/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 04:45/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 04:45/jmh
Potassium	16.0	mg/L		0.5		2	E200.7	01/30/09 20:37/eli-c
Sodium	92.1	mg/L		0.5		2	E200.7	01/30/09 20:37/eli-c
Sulfate	1340	mg/L	D	3		50	E300.0	01/22/09 04:29/jmh
Silica	10.2	mg/L		0.2		2	E200.7	01/30/09 20:37/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2410	umhos/cm		5.0		1	A2510 B	01/22/09 15:01/tb
Oxidation-Reduction Potential	300	mV				1	A2580 B	01/27/09 11:00/jmh
pH	6.74	s.u.		0.01		1	A4500-H B	01/22/09 10:14/tb
Sodium Adsorption Ratio (SAR)	1.1	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	1700	mg/L		5		1	A2540 C	01/26/09 09:21/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 18:06/eli-c
Arsenic	ND	mg/L		0.001		5	E200.8	01/30/09 18:57/eli-c
Barium	ND	mg/L		0.1		5	E200.8	01/30/09 18:57/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 20:37/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	01/30/09 18:57/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	01/30/09 18:57/eli-c
Copper	ND	mg/L		0.01		5	E200.8	01/30/09 18:57/eli-c
Iron	1.74	mg/L		0.03		2	E200.7	01/30/09 20:37/eli-c
Lead	ND	mg/L		0.001		5	E200.8	01/30/09 18:57/eli-c
Manganese	2.39	mg/L		0.01		5	E200.8	01/30/09 18:57/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 18:06/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.8	01/30/09 18:57/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	01/30/09 18:57/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:34/eli-c
Silver	ND	mg/L		0.005		5	E200.8	01/30/09 18:57/eli-c
Thorium 232	ND	mg/L		0.005		5	E200.8	01/30/09 18:57/eli-c
Uranium	0.100	mg/L		0.0003		5	E200.8	01/30/09 18:57/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-009
 Client Sample ID: DewBurd GW698

Report Date: 03/17/09
 Collection Date: 01/20/09 14:07
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		5	E200.8	01/30/09 18:57/eli-c
Zinc	ND	mg/L		0.01		5	E200.8	01/30/09 18:57/eli-c
METALS - SUSPENDED								
Uranium	0.0021	mg/L		0.0003		1	E200.8	02/19/09 01:21/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:33/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1960	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Alpha precision (±)	40.9	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Alpha MDC	7.4	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta	547	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta precision (±)	11.6	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta MDC	8.7	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Lead 210	0.1	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.42	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.68	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.51	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	386	pCi/L				1	E903.0	02/05/09 14:35/eli-ca
Radium 226 precision (±)	3.8	pCi/L				1	E903.0	02/05/09 14:35/eli-ca
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	1400	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	220	pCi/L				1	E901.1	02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.9	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	2.0	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.96	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.59	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	7.3	pCi/L				1	E903.0	02/18/09 13:41/eli-ca
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	02/18/09 13:41/eli-ca

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-009
 Client Sample ID: DewBurd GW698

Report Date: 03/17/09
 Collection Date: 01/20/09 14:07
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.5	pCi/L					1	E903.0	02/18/09 13:41/eli-ce
Thorium 230	1.9	pCi/L		0.2			1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.6	pCi/L					1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	32100	pCi/L		100			1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	235	pCi/L					1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	02/04/09 17:22/eli-c
Arsenic	ND	mg/L	D	0.002			1	E200.8	02/04/09 17:22/eli-c
Barium	ND	mg/L		0.1			1	E200.8	02/04/09 17:22/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	02/04/09 17:22/eli-c
Boron	ND	mg/L		0.1			2	E200.7	02/07/09 03:31/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	02/04/09 17:22/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	02/04/09 17:22/eli-c
Copper	ND	mg/L		0.01			1	E200.8	02/04/09 17:22/eli-c
Iron	4.60	mg/L		0.03			2	E200.7	02/07/09 03:31/eli-c
Lead	ND	mg/L		0.001			1	E200.8	02/04/09 17:22/eli-c
Manganese	2.37	mg/L		0.01			1	E200.8	02/04/09 17:22/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	01/26/09 10:45/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	02/04/09 17:22/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	02/04/09 17:22/eli-c
Selenium	ND	mg/L	D	0.002			1	E200.8	02/04/09 17:22/eli-c
Silver	ND	mg/L		0.005			1	E200.8	02/04/09 17:22/eli-c
Strontium	4.8	mg/L		0.1			1	E200.8	02/04/09 17:22/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	02/04/09 17:22/eli-c
Uranium	0.108	mg/L		0.0003			1	E200.8	02/04/09 17:22/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	02/04/09 17:22/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.51	%					1	A1030 E	03/16/09 00:00/lkl
Anions	30.6	meq/L					1	A1030 E	03/16/09 00:00/lkl
Cations	32.2	meq/L					1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	2030	mg/L					1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.820						1	A1030 E	03/16/09 00:00/lkl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-010
Client Sample ID: DewBurd GW3026

Report Date: 03/17/09
Collection Date: 01/20/09 14:25
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B	01/26/09 14:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:30/mb
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B	01/26/09 14:30/mb
Calcium	350	mg/L		0.5		2	E200.7	01/30/09 20:42/eli-c
Chloride	16	mg/L		1		1	E300.0	01/22/09 06:24/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	01/22/09 06:24/jmh
Magnesium	114	mg/L		0.5		2	E200.7	01/30/09 20:42/eli-c
Nitrogen, Ammonia as N	0.5	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:22/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 06:24/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 06:24/jmh
Potassium	20.6	mg/L		0.5		2	E200.7	01/30/09 20:42/eli-c
Sodium	161	mg/L		0.5		2	E200.7	01/30/09 20:42/eli-c
Sulfate	1310	mg/L	D	3		50	E300.0	01/22/09 05:34/jmh
Silica	8.5	mg/L		0.2		2	E200.7	01/30/09 20:42/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2600	umhos/cm		5.0		1	A2510 B	01/22/09 15:03/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	01/27/09 11:00/jmh
pH	6.67	s.u.		0.01		1	A4500-H B	01/22/09 10:15/tb
Sodium Adsorption Ratio (SAR)	1.9	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C	01/26/09 09:22/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 18:40/eli-c
Arsenic	0.001	mg/L		0.001		5	E200.8	01/30/09 19:04/eli-c
Barium	ND	mg/L		0.1		5	E200.8	01/30/09 19:04/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 20:42/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	01/30/09 19:04/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	01/30/09 19:04/eli-c
Copper	ND	mg/L		0.01		5	E200.8	01/30/09 19:04/eli-c
Iron	6.85	mg/L		0.03		2	E200.7	01/30/09 20:42/eli-c
Lead	ND	mg/L		0.001		5	E200.8	01/30/09 19:04/eli-c
Manganese	1.16	mg/L		0.01		5	E200.8	01/30/09 19:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 18:40/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.8	01/30/09 19:04/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	01/30/09 19:04/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:37/eli-c
Silver	ND	mg/L		0.005		5	E200.8	01/30/09 19:04/eli-c
Thorium 232	ND	mg/L		0.005		5	E200.8	01/30/09 19:04/eli-c
Uranium	0.0039	mg/L		0.0003		5	E200.8	01/30/09 19:04/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-010
 Client Sample ID: DewBurd GW3026

Report Date: 03/17/09
 Collection Date: 01/20/09 14:25
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		5 E200.8	01/30/09 19:04/eli-c
Zinc	0.02	mg/L		0.01		5 E200.8	01/30/09 19:04/eli-c
METALS - SUSPENDED							
Uranium	0.0003	mg/L		0.0003		1 E200.8	02/19/09 01:25/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/24/09 16:35/eli-c
Selenium-VI	ND	mg/L		0.001		1 A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	51.6	pCi/L				1 E900.0	02/07/09 01:12/eli-ca
Gross Alpha precision (±)	7.8	pCi/L				1 E900.0	02/07/09 01:12/eli-ca
Gross Alpha MDC	7.3	pCi/L				1 E900.0	02/07/09 01:12/eli-ca
Gross Beta	24.9	pCi/L				1 E900.0	02/07/09 01:12/eli-ca
Gross Beta precision (±)	5.6	pCi/L				1 E900.0	02/07/09 01:12/eli-ca
Gross Beta MDC	8.7	pCi/L				1 E900.0	02/07/09 01:12/eli-ca
Lead 210	-0.9	pCi/L	U			1 E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1 E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1 E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.053	pCi/L	U			1 RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.75	pCi/L				1 RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.34	pCi/L				1 RMO-3008	02/13/09 14:35/eli-c
Radium 226	3.5	pCi/L				1 E903.0	02/05/09 14:35/eli-ca
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	02/05/09 14:35/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1 E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	02/06/09 08:45/eli-c
Gross Gamma	1000	pCi/L				1 E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1 E901.1	02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.5	pCi/L	U			1 E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1 E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1 E909.0M	03/10/09 13:35/eli-c
Polonium 210	-0.058	pCi/L	U			1 RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.27	pCi/L				1 RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.75	pCi/L				1 RMO-3008	02/19/09 09:56/eli-c
Radium 226	0.6	pCi/L				1 E903.0	02/18/09 13:41/eli-ca
Radium 226 precision (±)	0.4	pCi/L				1 E903.0	02/18/09 13:41/eli-ca

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-010
 Client Sample ID: DewBurd GW3026

Report Date: 03/17/09
 Collection Date: 01/20/09 14:25
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.5	pCi/L					1	E903.0	02/18/09 13:41/eli-ca
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	295	pCi/L		100			1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	59.9	pCi/L					1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	01/30/09 21:20/eli-c
Arsenic	0.010	mg/L		0.001			1	E200.8	02/04/09 18:10/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/30/09 21:20/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/30/09 21:20/eli-c
Boron	0.2	mg/L		0.1			2	E200.7	02/05/09 19:27/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/30/09 21:20/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/30/09 21:20/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/30/09 21:20/eli-c
Iron	17.0	mg/L	D	0.04			2	E200.7	02/05/09 19:27/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/30/09 21:20/eli-c
Manganese	1.20	mg/L		0.01			1	E200.8	01/30/09 21:20/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	01/26/09 10:48/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	02/04/09 18:10/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/30/09 21:20/eli-c
Selenium	0.003	mg/L		0.001			1	E200.8	02/04/09 18:10/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/30/09 21:20/eli-c
Strontium	6.0	mg/L		0.1			1	E200.8	02/04/09 18:10/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	01/30/09 21:20/eli-c
Uranium	0.0047	mg/L		0.0003			1	E200.8	01/30/09 21:20/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/30/09 21:20/eli-c
DATA QUALITY									
A/C Balance (± 5)	5.42	%					1	A1030 E	03/16/09 00:00/kl
Anions	31.2	meq/L					1	A1030 E	03/16/09 00:00/kl
Cations	34.8	meq/L					1	A1030 E	03/16/09 00:00/kl
Solids, Total Dissolved Calculated	2100	mg/L					1	A1030 E	03/16/09 00:00/kl
TDS Balance (0.80 - 1.20)	0.990						1	A1030 E	03/16/09 00:00/kl

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-011
Client Sample ID: DewBurd GW680

Report Date: 03/17/09
Collection Date: 01/20/09 15:25
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	252	mg/L		5		1	A2320 B	01/26/09 14:32/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:32/mb
Bicarbonate as HCO3	307	mg/L		5		1	A2320 B	01/26/09 14:32/mb
Calcium	358	mg/L		0.5		2	E200.7	01/30/09 21:10/eli-c
Chloride	13	mg/L		1		1	E300.0	01/22/09 06:56/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	01/22/09 06:56/jmh
Magnesium	117	mg/L		0.5		2	E200.7	01/30/09 21:10/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:23/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 06:56/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 06:56/jmh
Potassium	19.8	mg/L		0.5		2	E200.7	01/30/09 21:10/eli-c
Sodium	145	mg/L		0.5		2	E200.7	01/30/09 21:10/eli-c
Sulfate	1370	mg/L	D	3		50	E300.0	01/22/09 06:40/jmh
Silica	8.7	mg/L		0.2		2	E200.7	01/30/09 21:10/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2480	umhos/cm		5.0		1	A2510 B	01/22/09 15:05/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	01/27/09 11:00/jmh
pH	7.12	s.u.		0.01		1	A4500-H B	01/22/09 10:17/tb
Sodium Adsorption Ratio (SAR)	1.7	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	01/26/09 09:22/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 18:46/eli-c
Arsenic	ND	mg/L		0.001		5	E200.8	01/30/09 19:52/eli-c
Barium	ND	mg/L		0.1		5	E200.8	01/30/09 19:52/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 21:10/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	01/30/09 19:52/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	01/30/09 19:52/eli-c
Copper	ND	mg/L		0.01		5	E200.8	01/30/09 19:52/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/30/09 21:10/eli-c
Lead	ND	mg/L		0.001		5	E200.8	01/30/09 19:52/eli-c
Manganese	0.47	mg/L		0.01		5	E200.8	01/30/09 19:52/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 18:46/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.8	01/30/09 19:52/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	01/30/09 19:52/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:43/eli-c
Silver	ND	mg/L		0.005		5	E200.8	01/30/09 19:52/eli-c
Thorium 232	ND	mg/L		0.005		5	E200.8	01/30/09 19:52/eli-c
Uranium	0.0205	mg/L		0.0003		5	E200.8	01/30/09 19:52/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-011
 Client Sample ID: DewBurd GW680

Report Date: 03/17/09
 Collection Date: 01/20/09 15:25
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		5	E200.8	01/30/09 19:52/eli-c
Zinc	0.01	mg/L		0.01		5	E200.8	01/30/09 19:52/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/09 01:29/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:42/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6730	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Gross Alpha precision (±)	79.0	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Gross Alpha MDC	8.1	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Gross Beta	1790	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Gross Beta precision (±)	19.6	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Gross Beta MDC	8.8	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Lead 210	5.4	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.53	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.51	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.48	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	1360	pCi/L				1	E903.0	02/05/09 14:35/eli-ce
Radium 226 precision (±)	7.5	pCi/L				1	E903.0	02/05/09 14:35/eli-ce
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	1700	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	240	pCi/L				1	E901.1	02/04/09 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	6.2	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	2.0	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.94	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.53	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	13.3	pCi/L				1	E903.0	02/18/09 13:41/eli-ce
Radium 226 precision (±)	1.1	pCi/L				1	E903.0	02/18/09 13:41/eli-ce
Radium 226 MDC	0.5	pCi/L				1	E903.0	02/18/09 13:41/eli-ce

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-011
Client Sample ID: DewBurd GW680

Report Date: 03/17/09
Collection Date: 01/20/09 15:25
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Thorium 230	-0.2	pCi/L	U	0.2			1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	48000	pCi/L		100			1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	283	pCi/L					1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	01/30/09 21:26/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	02/04/09 18:16/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/30/09 21:26/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/30/09 21:26/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	02/05/09 19:48/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/30/09 21:26/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/30/09 21:26/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/30/09 21:26/eli-c
Iron	0.30	mg/L	D	0.04			2	E200.7	02/05/09 19:48/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/30/09 21:26/eli-c
Manganese	0.46	mg/L		0.01			1	E200.8	01/30/09 21:26/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	01/26/09 10:50/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	02/04/09 18:16/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/30/09 21:26/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	02/04/09 18:16/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/30/09 21:26/eli-c
Strontium	7.1	mg/L		0.1			1	E200.8	02/04/09 18:16/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	01/30/09 21:26/eli-c
Uranium	0.0220	mg/L		0.0003			1	E200.8	01/30/09 21:26/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/30/09 21:26/eli-c
DATA QUALITY									
A/C Balance (± 5)	0.670	%					1	A1030 E	03/16/09 00:00/kl
Anions	33.9	meq/L					1	A1030 E	03/16/09 00:00/kl
Cations	34.3	meq/L					1	A1030 E	03/16/09 00:00/kl
Solids, Total Dissolved Calculated	2190	mg/L					1	A1030 E	03/16/09 00:00/kl
TDS Balance (0.80 - 1.20)	0.990						1	A1030 E	03/16/09 00:00/kl

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 33 of 42
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-012
 Client Sample ID: DewBurd GW688

Report Date: 03/17/09
 Collection Date: 01/20/09 15:35
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	01/26/09 14:45/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:45/mb
Bicarbonate as HCO3	197	mg/L		5		1	A2320 B	01/26/09 14:45/mb
Calcium	48.8	mg/L		0.5		1	E200.7	01/30/09 21:19/eli-c
Chloride	11	mg/L		1		1	E300.0	01/22/09 07:29/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	01/22/09 07:29/jmh
Magnesium	20.5	mg/L		0.5		1	E200.7	01/30/09 21:19/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:24/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 07:29/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 07:29/jmh
Potassium	14.2	mg/L		0.5		1	E200.7	01/30/09 21:19/eli-c
Sodium	189	mg/L		0.5		1	E200.7	01/30/09 21:19/eli-c
Sulfate	436	mg/L	D	3		50	E300.0	01/22/09 07:13/jmh
Silica	7.6	mg/L		0.2		1	E200.7	01/30/09 21:19/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1210	umhos/cm		5.0		1	A2510 B	01/22/09 15:07/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	01/27/09 11:00/jmh
pH	8.00	s.u.		0.01		1	A4500-H B	01/22/09 10:18/tb
Sodium Adsorption Ratio (SAR)	5.7	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	800	mg/L		5		1	A2540 C	01/26/09 09:23/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 18:53/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	01/30/09 19:58/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 19:58/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/30/09 21:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 19:58/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/03/09 18:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 19:58/eli-c
Iron	0.03	mg/L		0.03		1	E200.7	01/30/09 21:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 19:58/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	02/02/09 23:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 18:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 19:58/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/03/09 18:53/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:46/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 19:58/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 19:58/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/30/09 19:58/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-012
 Client Sample ID: DewBurd GW688

Report Date: 03/17/09
 Collection Date: 01/20/09 15:35
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 02/02/09 23:01/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 01/30/09 19:58/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 02/19/09 01:33/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 02/24/09 16:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B 02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	25.6	pCi/L				1	E900.0 02/07/09 01:12/eli-ce
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0 02/07/09 01:12/eli-ce
Gross Alpha MDC	3.2	pCi/L				1	E900.0 02/07/09 01:12/eli-ce
Gross Beta	15.8	pCi/L				1	E900.0 02/07/09 01:12/eli-ce
Gross Beta precision (±)	2.9	pCi/L				1	E900.0 02/07/09 01:12/eli-ce
Gross Beta MDC	4.3	pCi/L				1	E900.0 02/07/09 01:12/eli-ce
Lead 210	1.0	pCi/L	U			1	E909.0M 02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M 02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M 02/03/09 10:43/eli-c
Polonium 210	-0.0089	pCi/L	U			1	RMO-3008 02/13/09 14:35/eli-c
Polonium 210 MDC	0.71	pCi/L				1	RMO-3008 02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1	RMO-3008 02/13/09 14:35/eli-c
Radium 226	3.8	pCi/L				1	E903.0 02/05/09 14:35/eli-ce
Radium 226 precision (±)	0.4	pCi/L				1	E903.0 02/05/09 14:35/eli-ce
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0 02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0 02/06/09 08:45/eli-c
Gross Gamma	1100	pCi/L				1	E901.1 02/04/09 14:00/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1 02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	3.2	pCi/L	U			1	E909.0M 03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M 03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M 03/10/09 13:35/eli-c
Polonium 210	-0.0045	pCi/L	U			1	RMO-3008 02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Polonium 210 MDC	0.43	pCi/L				1	RMO-3008 02/19/09 09:56/eli-c
Radium 226	0.1	pCi/L	U			1	E903.0 02/18/09 13:41/eli-ce
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 02/18/09 13:41/eli-ce

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-012
 Client Sample ID: DewBurd GW688

Report Date: 03/17/09
 Collection Date: 01/20/09 15:35
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.5	pCi/L					1	E903.0	02/18/09 13:41/eli-ca
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	152	pCi/L		100			1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	57.4	pCi/L					1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	01/30/09 21:33/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	02/04/09 18:50/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/30/09 21:33/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/30/09 21:33/eli-c
Boron	ND	mg/L		0.1			2	E200.7	02/05/09 19:53/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/30/09 21:33/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/30/09 21:33/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/30/09 21:33/eli-c
Iron	0.17	mg/L	D	0.04			2	E200.7	02/05/09 19:53/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/30/09 21:33/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	01/30/09 21:33/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	01/26/09 10:53/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	02/04/09 18:50/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/30/09 21:33/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	02/04/09 18:50/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/30/09 21:33/eli-c
Strontium	1.3	mg/L		0.1			1	E200.8	02/04/09 18:50/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	01/30/09 21:33/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	01/30/09 21:33/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/30/09 21:33/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.140	%					1	A1030 E	03/16/09 00:00/lkl
Anions	12.8	meq/L					1	A1030 E	03/16/09 00:00/lkl
Cations	12.7	meq/L					1	A1030 E	03/16/09 00:00/lkl
Solids, Total Dissolved Calculated	840	mg/L					1	A1030 E	03/16/09 00:00/lkl
TDS Balance (0.80 - 1.20)	0.950						1	A1030 E	03/16/09 00:00/lkl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-013
Client Sample ID: DewBurd GW696

Report Date: 03/17/09
Collection Date: 01/20/09 16:55
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	01/26/09 14:47/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 14:47/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	01/26/09 14:47/mb
Calcium	27.0	mg/L		0.5		2	E200.7	01/30/09 21:24/eli-c
Chloride	12	mg/L		1		1	E300.0	01/22/09 08:02/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	01/22/09 08:02/jmh
Magnesium	9.6	mg/L		0.5		2	E200.7	01/30/09 21:24/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	01/21/09 17:28/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 08:02/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 08:02/jmh
Potassium	8.8	mg/L		0.5		2	E200.7	01/30/09 21:24/eli-c
Sodium	253	mg/L		0.5		2	E200.7	01/30/09 21:24/eli-c
Sulfate	483	mg/L	D	3		50	E300.0	01/22/09 07:46/jmh
Silica	7.5	mg/L		0.2		2	E200.7	01/30/09 21:24/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1400	umhos/cm		5.0		1	A2510 B	01/22/09 15:08/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	01/27/09 11:00/jmh
pH	8.05	s.u.		0.01		1	A4500-H B	01/22/09 10:19/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C	01/26/09 09:25/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/03/09 19:00/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/30/09 20:05/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/30/09 20:05/eli-c
Boron	ND	mg/L		0.1		2	E200.7	01/30/09 21:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/30/09 20:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/30/09 20:05/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/30/09 20:05/eli-c
Iron	ND	mg/L		0.03		2	E200.7	01/30/09 21:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/30/09 20:05/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	01/30/09 20:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/03/09 19:00/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/30/09 20:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/30/09 20:05/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/30/09 20:05/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/30/09 20:05/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/30/09 20:05/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-013
 Client Sample ID: DewBurd GW696

Report Date: 03/17/09
 Collection Date: 01/20/09 16:55
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 20:05/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 20:05/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/09 01:37/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:47/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	20.2	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Gross Alpha MDC	3.6	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Gross Beta	6.4	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Gross Beta precision (±)	2.7	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Gross Beta MDC	4.4	pCi/L				1	E900.0	02/07/09 01:12/eli-ce
Lead 210	0.4	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.0	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.61	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.23	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	1	pCi/L				1	E903.0	02/05/09 14:35/eli-ce
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/05/09 14:35/eli-ce
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	940	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	02/04/09 14:00/eli-c
<p>- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.</p>								
RADIONUCLIDES - SUSPENDED								
Lead 210	-4	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.7	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	-0.035	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.18	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.50	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	02/18/09 13:41/eli-ce
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/18/09 13:41/eli-ce

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-013
Client Sample ID: DewBurd GW696

Report Date: 03/17/09
Collection Date: 01/20/09 16:55
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.5	pCi/L					1	E903.0	02/18/09 13:41/eli-ce
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	250	pCi/L		100			1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	58.2	pCi/L					1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	01/30/09 21:40/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	02/04/09 20:33/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/30/09 21:40/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/30/09 21:40/eli-c
Boron	ND	mg/L		0.1			2	E200.7	02/05/09 19:57/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/30/09 21:40/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/30/09 21:40/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/30/09 21:40/eli-c
Iron	0.14	mg/L	D	0.04			2	E200.7	02/05/09 19:57/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/30/09 21:40/eli-c
Manganese	0.06	mg/L		0.01			1	E200.8	01/30/09 21:40/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	01/26/09 11:21/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	02/04/09 20:33/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/30/09 21:40/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	02/04/09 20:33/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/30/09 21:40/eli-c
Strontium	0.8	mg/L		0.1			1	E200.8	02/04/09 20:33/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	01/30/09 21:40/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	01/30/09 21:40/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/30/09 21:40/eli-c
DATA QUALITY									
A/C Balance (± 5)	-2.22	%					1	A1030 E	03/16/09 00:00/kl
Anions	14.0	meq/L					1	A1030 E	03/16/09 00:00/kl
Cations	13.4	meq/L					1	A1030 E	03/16/09 00:00/kl
Solids, Total Dissolved Calculated	921	mg/L					1	A1030 E	03/16/09 00:00/kl
TDS Balance (0.80 - 1.20)	1.00						1	A1030 E	03/16/09 00:00/kl

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 39 of 42
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09010301-014
Client Sample ID: DewBurd GW694

Report Date: 03/17/09
Collection Date: 01/20/09 17:00
Date Received: 01/21/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	208	mg/L		5		1	A2320 B 01/26/09 14:49/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B 01/26/09 14:49/mb
Bicarbonate as HCO3	254	mg/L		5		1	A2320 B 01/26/09 14:49/mb
Calcium	86.6	mg/L		0.5		2	E200.7 01/30/09 21:28/eli-c
Chloride	9	mg/L		1		1	E300.0 01/22/09 09:41/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0 01/22/09 09:41/jmh
Magnesium	32.8	mg/L		0.5		2	E200.7 01/30/09 21:28/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G 01/21/09 17:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 01/22/09 09:41/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 01/22/09 09:41/jmh
Potassium	12.3	mg/L		0.5		2	E200.7 01/30/09 21:28/eli-c
Sodium	162	mg/L		0.5		2	E200.7 01/30/09 21:28/eli-c
Sulfate	508	mg/L	D	3		50	E300.0 01/22/09 08:51/jmh
Silica	7.6	mg/L		0.2		2	E200.7 01/30/09 21:28/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1370	umhos/cm		5.0		1	A2510 B 01/22/09 15:10/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B 01/27/09 11:00/jmh
pH	7.55	s.u.		0.01		1	A4500-H B 01/22/09 10:20/tb
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10		1	Calculation 03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	960	mg/L		5		1	A2540 C 01/26/09 09:25/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		2	E200.7 02/20/09 13:06/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 01/30/09 20:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8 01/30/09 20:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7 01/30/09 21:28/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 01/30/09 20:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 01/30/09 20:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8 01/30/09 20:12/eli-c
Iron	ND	mg/L		0.03		2	E200.7 01/30/09 21:28/eli-c
Lead	ND	mg/L		0.001		1	E200.8 01/30/09 20:12/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8 01/30/09 20:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 02/03/09 20:42/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 01/30/09 20:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 01/30/09 20:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 02/25/09 10:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8 01/30/09 20:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 01/30/09 20:12/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8 01/30/09 20:12/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-014
 Client Sample ID: DewBurd GW694

Report Date: 03/17/09
 Collection Date: 01/20/09 17:00
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	01/30/09 20:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/30/09 20:12/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/19/09 01:41/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/24/09 16:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	25.9	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Alpha precision (±)	3.9	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Alpha MDC	3.7	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta	16.8	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Gross Beta MDC	4.4	pCi/L				1	E900.0	02/07/09 01:11/eli-ca
Lead 210	-0.9	pCi/L	U			1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L				1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	0.045	pCi/L	U			1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.58	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	1.7	pCi/L				1	E903.0	02/05/09 14:35/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	02/05/09 14:35/eli-ca
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	02/06/09 08:45/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	02/06/09 08:45/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1	E901.1	02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-1	pCi/L	U			1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L				1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	0.056	pCi/L	U			1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 precision (±)	0.28	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Polonium 210 MDC	0.59	pCi/L				1	RMO-3008	02/19/09 09:56/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	02/18/09 15:51/eli-ca
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/18/09 15:51/eli-ca

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010301-014
 Client Sample ID: DewBurd GW694

Report Date: 03/17/09
 Collection Date: 01/20/09 17:00
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 MDC	0.4	pCi/L					1	E903.0	02/18/09 15:51/eli-ca
Thorium 230	-0.1	pCi/L	U	0.2			1	E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	270	pCi/L		100			1	D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	58.4	pCi/L					1	D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	01/30/09 21:47/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	02/04/09 20:39/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/30/09 21:47/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/30/09 21:47/eli-c
Boron	ND	mg/L		0.1			2	E200.7	02/05/09 20:02/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/30/09 21:47/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/30/09 21:47/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/30/09 21:47/eli-c
Iron	0.15	mg/L	D	0.04			2	E200.7	02/05/09 20:02/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/30/09 21:47/eli-c
Manganese	0.15	mg/L		0.01			1	E200.8	01/30/09 21:47/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	01/26/09 11:28/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	02/04/09 20:39/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/30/09 21:47/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	02/04/09 20:39/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/30/09 21:47/eli-c
Strontium	2.7	mg/L		0.1			1	E200.8	02/04/09 20:39/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	01/30/09 21:47/eli-c
Uranium	0.0006	mg/L		0.0003			1	E200.8	01/30/09 21:47/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	01/30/09 21:47/eli-c
DATA QUALITY									
A/C Balance (± 5)	-2.05	%					1	A1030 E	03/16/09 00:00/kl
Anions	15.0	meq/L					1	A1030 E	03/16/09 00:00/kl
Cations	14.4	meq/L					1	A1030 E	03/16/09 00:00/kl
Solids, Total Dissolved Calculated	956	mg/L					1	A1030 E	03/16/09 00:00/kl
TDS Balance (0.80 - 1.20)	1.00						1	A1030 E	03/16/09 00:00/kl

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 090126A-ALK-SEL-W		
Sample ID: LCS1_090126A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			01/26/09 12:59
Sample ID: MBLK1_090126A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						01/26/09 13:00
Sample ID: R09010301-004AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 236	mg/L	5.0	92	80	120			01/26/09 14:06
Sample ID: R09010301-004AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 244	mg/L	5.0	100	80	120	3.3	10	01/26/09 14:11
Sample ID: R09010301-014AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 296	mg/L	5.0	83	80	120			01/26/09 14:51
Sample ID: R09010301-014AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 296	mg/L	5.0	83	80	120	0	10	01/26/09 14:53
Method: A2510 B							Batch: 090122_1_COND-PROBE-W		
Sample ID: LCS_COND-1_090122 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			01/22/09 14:38
Sample ID: LCS1-1_090122 Conductivity @ 25 C	Laboratory Control Sample 149	umhos/cm	5.0	99	90	110			01/22/09 14:39
Sample ID: LCS2-1_090122 Conductivity @ 25 C	Laboratory Control Sample 5000	umhos/cm	5.0	100	90	110			01/22/09 14:40
Sample ID: MBLK-1_090122 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						01/22/09 14:40
Sample ID: R09010301-007ADUP Conductivity @ 25 C	Sample Duplicate 1310	umhos/cm	5.0				0	10	01/22/09 14:57

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 090126A-SLDS-TDS-W		
Sample ID: LCS1_090126A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110			01/26/09 08:55
Sample ID: MBLK1_090126A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	5						01/26/09 08:57
Sample ID: R09010301-002AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	109	80	120			01/26/09 09:15
Sample ID: R09010301-002AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	106	80	120	0.5	10	01/26/09 09:16
Sample ID: R09010301-012AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	108	80	120			01/26/09 09:23
Sample ID: R09010301-012AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	101	80	120	1.4	10	01/26/09 09:24
Method: A2580 B							Batch: 090127-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample								
Oxidation-Reduction Potential	480	mV		100	95	105			01/27/09 11:00
Sample ID: R09010301-010F	Sample Duplicate								
Oxidation-Reduction Potential	240	mV					0.4	10	01/27/09 11:00
Method: A3114 B							Batch: C_SE3114-090224D-IV		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	0.0003						02/24/09 15:59
Sample ID: As/Se 1.0ppm-Q 02090	Laboratory Control Sample								
Selenium-IV	0.054	mg/L	0.0010	108	90	110			02/24/09 16:01
Sample ID: R09010301-001E	Sample Matrix Spike								
Selenium-IV	0.050	mg/L	0.0010	100	85	115			02/24/09 16:08
Sample ID: R09010301-001E	Sample Matrix Spike Duplicate								
Selenium-IV	0.051	mg/L	0.0010	102	85	115	1.2	10	02/24/09 16:10
Sample ID: C09010797-010EMS	Sample Matrix Spike								
Selenium-IV	0.049	mg/L	0.0010	99	85	115			02/24/09 16:38
Sample ID: C09010797-010EMSD	Sample Matrix Spike Duplicate								
Selenium-IV	0.047	mg/L	0.0010	94	85	115	4.8	10	02/24/09 16:40

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-090225A		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	0.0003			Run: SUB-C115157			02/25/09 10:00
Sample ID: As/Se 1.0ppm-Q 02090 Selenium	Laboratory Control Sample 0.052	mg/L	0.0010	103	90	110			02/25/09 10:03
Sample ID: R09010301-001E Selenium	Sample Matrix Spike 0.049	mg/L	0.0010	98	85	115			02/25/09 10:09
Sample ID: R09010301-001E Selenium	Sample Matrix Spike Duplicate 0.050	mg/L	0.0010	99	85	115	1.4		02/25/09 10:12 15
Sample ID: C09010797-010EMS Selenium	Sample Matrix Spike 0.047	mg/L	0.0010	94	85	115			02/25/09 10:39
Sample ID: C09010797-010EMSD Selenium	Sample Matrix Spike Duplicate 0.048	mg/L	0.0010	97	85	115	3		02/25/09 10:41 15
Method: A4500-H B							Batch: 090122_1_PH-W		
Sample ID: LCS_pH-1_090122 pH	Laboratory Control Sample 6.88	s.u.	0.010	100	98.55	101.45			01/22/09 09:53
Sample ID: R09010301-007ADUP pH	Sample Duplicate 7.85	s.u.	0.010			Run: PH_COND2-R_090122A	0		01/22/09 10:11 1.25

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2009-01-21_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
					Run: TECHAA2-R_090121A			01/21/09 15:03	
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	96	90	110			
					Run: TECHAA2-R_090121A			01/21/09 15:05	
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	103	90	110			
					Run: TECHAA2-R_090121A			01/21/09 15:06	
Sample ID: R09010278-006CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.18	mg/L	0.10	73	80	120			
					Run: TECHAA2-R_090121A			01/21/09 17:01	S
Sample ID: R09010278-006CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.18	mg/L	0.10	73	80	120	0	10	S
					Run: TECHAA2-R_090121A			01/21/09 17:02	
Sample ID: R09010301-005BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.44	mg/L	0.10	110	80	120			
					Run: TECHAA2-R_090121A			01/21/09 17:15	
Sample ID: R09010301-005BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.44	mg/L	0.10	110	80	120	0	10	
					Run: TECHAA2-R_090121A			01/21/09 17:16	
Sample ID: R09010301-013BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.63	mg/L	0.10	99	80	120			
					Run: TECHAA2-R_090121A			01/21/09 17:29	
Sample ID: R09010301-013BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.65	mg/L	0.10	108	80	120	3.3	10	
					Run: TECHAA2-R_090121A			01/21/09 17:30	
Method: D5072-92							Batch: C_R113850		
Sample ID: C09010745-002CDUP Radon 222	Sample Duplicate 150	pCi/L	100				0	30	
					Run: SUB-C113850			01/23/09 14:10	
Sample ID: R09010302-001G Radon 222	Sample Duplicate 133	pCi/L	100				14	30	
					Run: SUB-C113850			01/23/09 14:10	
Sample ID: MB-R113850 Radon 222	Method Blank 30	pCi/L							
					Run: SUB-C113850			01/23/09 14:10	U
Sample ID: LCS-R113850 Radon 222	Laboratory Control Sample 307	pCi/L	100	90	70	130			
					Run: SUB-C113850			01/23/09 14:10	

Qualifiers:

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 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_21342		
Sample ID: MB-21342	Method Blank					Run: SUB-C114422	02/07/09 03:07		
Boron	ND	mg/L	0.006						
Iron	ND	mg/L	0.01						
Sample ID: LCS3-21342	Laboratory Control Sample					Run: SUB-C114422	02/07/09 03:12		
Boron	0.482	mg/L	0.10	96	85	115			
Iron	2.54	mg/L	0.030	102	85	115			
Sample ID: R09010301-009D	Sample Matrix Spike					Run: SUB-C114422	02/07/09 03:35		
Boron	0.512	mg/L	0.10	94	70	130			
Iron	6.94	mg/L	0.030	94	70	130			
Sample ID: R09010301-009D	Sample Matrix Spike Duplicate					Run: SUB-C114422	02/07/09 03:40		
Boron	0.559	mg/L	0.10	103	70	130	8.7	20	
Iron	7.30	mg/L	0.030	108	70	130	5	20	

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R114100		
Sample ID: LRB	Method Blank		Run: SUB-C114100				01/30/09 15:45		
Boron	ND	mg/L	0.006						
Iron	0.005	mg/L	0.0004						
Silicon	ND	mg/L	0.003						
Calcium	ND	mg/L	0.02						
Magnesium	ND	mg/L	0.01						
Potassium	ND	mg/L	0.005						
Sodium	-0.05	mg/L							
Silica	ND	mg/L	0.005						
Sample ID: C09010796-010BMS	Sample Matrix Spike		Run: SUB-C114100				01/30/09 19:38		
Boron	15.4	mg/L	0.14	104	70	130			
Iron	13.1	mg/L	0.030	101	70	130			
Silicon	57.6	mg/L	0.10		70	130			A
Calcium	2910	mg/L	1.0	100	70	130			
Magnesium	1590	mg/L	1.0	103	70	130			
Potassium	1580	mg/L	1.0	112	70	130			
Sodium	3000	mg/L	1.0	103	70	130			
Silica	123	mg/L	0.21	452	70	130			S
Sample ID: C09010796-010BMSD	Sample Matrix Spike Duplicate		Run: SUB-C114100				01/30/09 19:43		
Boron	16.0	mg/L	0.14	109	70	130	3.7	20	
Iron	13.6	mg/L	0.030	105	70	130	3.4	20	
Silicon	58.8	mg/L	0.10		70	130	2	20	A
Calcium	3010	mg/L	1.0	108	70	130	3.5	20	
Magnesium	1630	mg/L	1.0	106	70	130	2.7	20	
Potassium	1610	mg/L	1.0	114	70	130	1.5	20	
Sodium	3020	mg/L	1.0	105	70	130	0.8	20	
Silica	126	mg/L	0.21	461	70	130	2	20	S
Sample ID: R09010301-010C	Sample Matrix Spike		Run: SUB-C114100				01/30/09 20:46		
Boron	1.19	mg/L	0.10	109	70	130			
Iron	7.94	mg/L	0.030		70	130			A
Silicon	4.63	mg/L	0.10		70	130			A
Calcium	459	mg/L	1.0	108	70	130			
Magnesium	222	mg/L	1.0	106	70	130			
Potassium	143	mg/L	1.0	120	70	130			
Sodium	264	mg/L	1.0	101	70	130			
Silica	9.92	mg/L	0.21	67	70	130			S
Sample ID: R09010301-010C	Sample Matrix Spike Duplicate		Run: SUB-C114100				01/30/09 20:51		
Boron	1.17	mg/L	0.10	108	70	130	1.5	20	
Iron	7.76	mg/L	0.030		70	130	2.2	20	A
Silicon	4.52	mg/L	0.10		70	130	2.5	20	A
Calcium	452	mg/L	1.0	100	70	130	1.6	20	

Qualifiers:

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ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 03/17/09

Project: Edgemont

Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R114100		
Sample ID: R09010301-010C	Sample Matrix Spike Duplicate			Run: SUB-C114100			01/30/09 20:51		
Magnesium	219	mg/L	1.0	102	70	130	1.7	20	
Sodium	263	mg/L	1.0	100	70	130	0.4	20	
Silica	9.68	mg/L	0.21	55	70	130	2.5	20	S
Sample ID: C09010853-001BMS	Sample Matrix Spike			Run: SUB-C114100			01/30/09 22:19		
Boron	1.08	mg/L	0.10	104	70	130			
Iron	1.06	mg/L	0.030	102	70	130			
Calcium	332	mg/L	1.0	103	70	130			
Magnesium	149	mg/L	1.0	104	70	130			
Potassium	128	mg/L	1.0	112	70	130			
Sodium	165	mg/L	1.0	103	70	130			
Silica	15.3	mg/L	0.21		70	130			A
Sample ID: C09010853-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C114100			01/30/09 22:23		
Boron	1.08	mg/L	0.10	104	70	130	0.5	20	
Iron	1.06	mg/L	0.030	103	70	130	0.2	20	
Calcium	337	mg/L	1.0	108	70	130	1.5	20	
Magnesium	149	mg/L	1.0	104	70	130	0.3	20	
Potassium	128	mg/L	1.0	112	70	130	0.3	20	
Sodium	166	mg/L	1.0	104	70	130	0.6	20	
Silica	15.6	mg/L	0.21		70	130	2	20	A
Method: E200.7							Batch: C_R114362		
Sample ID: LRB	Method Blank			Run: SUB-C114362			02/05/09 12:03		
Boron	0.007	mg/L	0.006						
Iron	0.006	mg/L	0.0004						
Sample ID: R09010301-004D	Sample Matrix Spike			Run: SUB-C114362			02/05/09 19:05		
Boron	5.41	mg/L	0.37	106	70	130			
Iron	6.63	mg/L	0.22	104	70	130			
Sample ID: R09010301-004D	Sample Matrix Spike Duplicate			Run: SUB-C114362			02/05/09 19:10		
Boron	5.64	mg/L	0.37	111	70	130	4.3	20	
Iron	6.90	mg/L	0.22	109	70	130	4	20	
Sample ID: R09010302-001D	Sample Matrix Spike			Run: SUB-C114362			02/05/09 20:15		
Boron	1.44	mg/L	0.10	106	70	130			
Iron	1.74	mg/L	0.043	104	70	130			
Sample ID: R09010302-001D	Sample Matrix Spike Duplicate			Run: SUB-C114362			02/05/09 20:20		
Boron	1.49	mg/L	0.10	110	70	130	3	20	
Iron	1.77	mg/L	0.043	107	70	130	1.6	20	

Qualifiers:

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A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
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Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R115011		
Sample ID: MB-090220A	Method Blank					Run: SUB-C115011		02/20/09 12:54	
Aluminum	ND	mg/L	0.003						
Sample ID: LFB-090220A	Laboratory Fortified Blank					Run: SUB-C115011		02/20/09 12:58	
Aluminum	0.95	mg/L	0.10	95	85	125			
Sample ID: C09010797-014CMS2	Sample Matrix Spike					Run: SUB-C115011		02/20/09 13:10	
Aluminum	1.92	mg/L	0.10	94	70	130			
Sample ID: C09010797-014CMSD2	Sample Matrix Spike Duplicate					Run: SUB-C115011		02/20/09 13:14	
Aluminum	1.92	mg/L	0.10	94	70	130	0.4	20	

Qualifiers:

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QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_21342		
Sample ID: MB-21342	Method Blank		Run: SUB-C114332				02/04/09 16:21		
Antimony	0.0004	mg/L	0.0003						
Arsenic	0.002	mg/L	0.0008						
Barium	ND	mg/L	0.0002						
Beryllium	ND	mg/L	6E-05						
Cadmium	ND	mg/L	7E-05						
Chromium	0.002	mg/L	0.0005						
Copper	0.0004	mg/L	0.0002						
Lead	ND	mg/L	8E-05						
Manganese	ND	mg/L	0.0001						
Molybdenum	ND	mg/L	9E-05						
Nickel	ND	mg/L	9E-05						
Selenium	0.002	mg/L	0.0008						
Silver	ND	mg/L	0.0002						
Strontium	ND	mg/L	7E-05						
Thallium	ND	mg/L	0.0004						
Uranium	ND	mg/L	6E-05						
Zinc	ND	mg/L	0.001						
Sample ID: LCS3-21342	Laboratory Control Sample		Run: SUB-C114332				02/04/09 16:28		
Antimony	0.584	mg/L	0.050	117	85	115			S
Arsenic	0.497	mg/L	0.0010	99	85	115			
Barium	0.511	mg/L	0.10	102	85	115			
Beryllium	0.276	mg/L	0.010	110	85	115			
Cadmium	0.251	mg/L	0.010	100	85	115			
Chromium	0.465	mg/L	0.050	93	85	115			
Copper	0.476	mg/L	0.010	95	85	115			
Lead	0.498	mg/L	0.050	100	85	115			
Manganese	2.43	mg/L	0.010	97	85	115			
Molybdenum	0.516	mg/L	0.10	103	85	115			
Nickel	0.477	mg/L	0.050	95	85	115			
Selenium	0.498	mg/L	0.0010	100	85	115			
Silver	0.0500	mg/L	0.010	100	85	115			
Strontium	0.504	mg/L	0.10	101	85	115			
Thallium	0.497	mg/L	0.10	99	85	115			
Uranium	0.525	mg/L	0.00030	105	85	115			
Zinc	0.485	mg/L	0.010	97	85	115			
Sample ID: R09010301-009D	Sample Matrix Spike		Run: SUB-C114332				02/04/09 17:29		
Antimony	0.585	mg/L	0.050	117	70	130			
Arsenic	0.507	mg/L	0.0010	101	70	130			
Barium	0.529	mg/L	0.10	104	70	130			
Beryllium	0.264	mg/L	0.010	106	70	130			
Cadmium	0.242	mg/L	0.010	97	70	130			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

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 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_21342		
Sample ID: R09010301-009D	Sample Matrix Spike			Run: SUB-C114332			02/04/09 17:29		
Chromium	0.461	mg/L	0.050	90	70	130			
Copper	0.468	mg/L	0.010	93	70	130			
Lead	0.508	mg/L	0.050	101	70	130			
Manganese	4.66	mg/L	0.010	92	70	130			
Molybdenum	0.531	mg/L	0.10	106	70	130			
Nickel	0.471	mg/L	0.050	93	70	130			
Selenium	0.499	mg/L	0.0010	99	70	130			
Silver	0.0483	mg/L	0.010	97	70	130			
Strontium	5.32	mg/L	0.10		70	130			A
Thallium	0.512	mg/L	0.10	102	70	130			
Uranium	0.660	mg/L	0.00030	110	70	130			
Zinc	0.455	mg/L	0.010	89	70	130			
Sample ID: R09010301-009D	Sample Matrix Spike Duplicate			Run: SUB-C114332			02/04/09 17:36		
Antimony	0.586	mg/L	0.050	117	70	130	0.1	20	
Arsenic	0.502	mg/L	0.0010	100	70	130	1	20	
Barium	0.526	mg/L	0.10	103	70	130	0.5	20	
Beryllium	0.258	mg/L	0.010	103	70	130	2.3	20	
Cadmium	0.244	mg/L	0.010	97	70	130	0.8	20	
Chromium	0.445	mg/L	0.050	87	70	130	3.5	20	
Copper	0.455	mg/L	0.010	90	70	130	2.9	20	
Lead	0.499	mg/L	0.050	100	70	130	1.8	20	
Manganese	4.57	mg/L	0.010	88	70	130	2	20	
Molybdenum	0.541	mg/L	0.10	108	70	130	2	20	
Nickel	0.460	mg/L	0.050	91	70	130	2.3	20	
Selenium	0.499	mg/L	0.0010	99	70	130	0	20	
Silver	0.0494	mg/L	0.010	99	70	130	2.3	20	
Strontium	5.28	mg/L	0.10		70	130	0.8	20	A
Thallium	0.501	mg/L	0.10	100	70	130	2.2	20	
Uranium	0.634	mg/L	0.00030	105	70	130	3.9	20	
Zinc	0.443	mg/L	0.010	87	70	130	2.6	20	

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ND - Not detected at the reporting limit.

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MDC - Minimum detectable concentration



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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_21458		
Sample ID: MB-21458	Method Blank					Run: SUB-C114869		02/18/09 22:43	
Uranium	ND	mg/L	7E-05						
Sample ID: LCS1-21458	Laboratory Control Sample					Run: SUB-C114869		02/18/09 22:47	
Uranium	0.102	mg/L	0.00030	102	80	120			
Sample ID: R09010301-006I	Post Digestion Spike					Run: SUB-C114869		02/18/09 23:35	
Uranium	0.0127	mg/L	0.00030	101	70	130			
Sample ID: R09010301-006I	Post Digestion Spike Duplicate					Run: SUB-C114869		02/18/09 23:39	
Uranium	0.0128	mg/L	0.00030	102	70	130	0.5	20	
Method: E200.8							Batch: C_21459		
Sample ID: MB-21459	Method Blank					Run: SUB-C114869		02/18/09 23:47	
Uranium	ND	mg/L	7E-05						
Sample ID: LCS1-21459	Laboratory Control Sample					Run: SUB-C114869		02/18/09 23:51	
Uranium	0.105	mg/L	0.00030	105	80	120			
Sample ID: R09010302-001I	Post Digestion Spike					Run: SUB-C114869		02/19/09 01:49	
Uranium	0.0128	mg/L	0.00030	102	70	130			
Sample ID: R09010302-001I	Post Digestion Spike Duplicate					Run: SUB-C114869		02/19/09 01:53	
Uranium	0.0127	mg/L	0.00030	101	70	130	0.5	20	

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R114097		
Sample ID: LRB	Method Blank		Run: SUB-C114097				01/30/09 16:42		
Antimony	0.0004	mg/L	0.0001						
Arsenic	ND	mg/L	0.0003						
Barium	0.0001	mg/L	3E-05						
Beryllium	ND	mg/L	6E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	9E-05	mg/L	4E-05						
Lead	5E-05	mg/L	2E-05						
Manganese	0.0001	mg/L	5E-05						
Mercury	ND	mg/L	4E-05						
Molybdenum	5E-05	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Silver	6E-05	mg/L	2E-05						
Strontium	0.0006	mg/L	2E-05						
Thallium	4E-05	mg/L	3E-05						
Thorium 232	0.0001	mg/L	3E-05						
Uranium	0.0001	mg/L	8E-06						
Vanadium	0.0001	mg/L	9E-05						
Zinc	0.0004	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C114097				01/30/09 16:49		
Antimony	0.0523	mg/L	0.0010	104	85	115			
Arsenic	0.0517	mg/L	0.0010	103	85	115			
Barium	0.0514	mg/L	0.0010	103	85	115			
Beryllium	0.0501	mg/L	0.0010	100	85	115			
Cadmium	0.0521	mg/L	0.0010	104	85	115			
Chromium	0.0495	mg/L	0.0010	99	85	115			
Copper	0.0521	mg/L	0.0010	104	85	115			
Lead	0.0525	mg/L	0.0010	105	85	115			
Manganese	0.0500	mg/L	0.0010	100	85	115			
Mercury	0.00528	mg/L	0.0010	106	85	115			
Molybdenum	0.0523	mg/L	0.0010	104	85	115			
Nickel	0.0524	mg/L	0.0010	105	85	115			
Silver	0.0212	mg/L	0.0010	106	85	115			
Strontium	0.0503	mg/L	0.0010	99	85	115			
Thallium	0.0521	mg/L	0.0010	104	85	115			
Thorium 232	0.0515	mg/L	0.0010	103	85	115			
Uranium	0.0514	mg/L	0.00030	103	85	115			
Vanadium	0.0489	mg/L	0.0010	98	85	115			
Zinc	0.0557	mg/L	0.0010	111	85	115			
Sample ID: C09010693-001CMS4	Post Digestion Spike		Run: SUB-C114097				01/30/09 17:22		
Antimony	0.0563	mg/L	0.050	112	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									
Batch: C_R114097									
Sample ID: C09010693-001CMS4 Post Digestion Spike Run: SUB-C114097 01/30/09 17:22									
Arsenic	0.0574	mg/L	0.0010	114	70	130			
Barium	0.0719	mg/L	0.10	109	70	130			
Beryllium	0.0485	mg/L	0.010	97	70	130			
Cadmium	0.0513	mg/L	0.010	102	70	130			
Chromium	0.0493	mg/L	0.050	98	70	130			
Copper	0.0541	mg/L	0.010	97	70	130			
Lead	0.0541	mg/L	0.050	108	70	130			
Manganese	0.551	mg/L	0.010		70	130			A
Mercury	0.00544	mg/L	0.0010	109	70	130			
Molybdenum	0.0581	mg/L	0.10	110	70	130			
Nickel	0.0582	mg/L	0.050	104	70	130			
Silver	0.0186	mg/L	0.010	93	70	130			
Strontium	1.86	mg/L	0.10		70	130			A
Thallium	0.0545	mg/L	0.10	109	70	130			
Thorium 232	0.0584	mg/L	0.0010	116	70	130			
Uranium	0.0587	mg/L	0.00030	115	70	130			
Vanadium	0.0496	mg/L	0.10	99	70	130			
Zinc	0.0789	mg/L	0.010	93	70	130			
Sample ID: C09010693-001CMSD4 Post Digestion Spike Duplicate Run: SUB-C114097 01/30/09 17:29									
Antimony	0.0566	mg/L	0.050	112	70	130	0.5	20	
Arsenic	0.0560	mg/L	0.0010	111	70	130	2.5	20	
Barium	0.0724	mg/L	0.10	110	70	130		20	
Beryllium	0.0473	mg/L	0.010	95	70	130	2.6	20	
Cadmium	0.0513	mg/L	0.010	102	70	130	0.1	20	
Chromium	0.0494	mg/L	0.050	98	70	130		20	
Copper	0.0539	mg/L	0.010	97	70	130	0.4	20	
Lead	0.0542	mg/L	0.050	108	70	130	0.2	20	
Manganese	0.549	mg/L	0.010		70	130	0.4	20	A
Mercury	0.00547	mg/L	0.0010	109	70	130	0.5	20	
Molybdenum	0.0584	mg/L	0.10	111	70	130		20	
Nickel	0.0572	mg/L	0.050	102	70	130	1.8	20	
Silver	0.0192	mg/L	0.010	96	70	130	3.1	20	
Strontium	1.86	mg/L	0.10		70	130	0.3	20	A
Thallium	0.0548	mg/L	0.10	109	70	130		20	
Thorium 232	0.0585	mg/L	0.0010	117	70	130	0.2	20	
Uranium	0.0588	mg/L	0.00030	115	70	130	0.1	20	
Vanadium	0.0493	mg/L	0.10	98	70	130		20	
Zinc	0.0783	mg/L	0.010	92	70	130	0.7	20	
Sample ID: R09010301-010C Post Digestion Spike Run: SUB-C114097 01/30/09 19:11									
Antimony	0.272	mg/L	0.050	109	70	130			
Arsenic	0.278	mg/L	0.0010	111	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R114097		
Sample ID: R09010301-010C	Post Digestion Spike			Run: SUB-C114097			01/30/09 19:11		
Barium	0.282	mg/L	0.10	108	70	130			
Beryllium	0.247	mg/L	0.010	99	70	130			
Cadmium	0.259	mg/L	0.010	103	70	130			
Chromium	0.252	mg/L	0.050	100	70	130			
Copper	0.252	mg/L	0.010	100	70	130			
Lead	0.263	mg/L	0.050	105	70	130			
Manganese	1.41	mg/L	0.010		70	130			A
Molybdenum	0.277	mg/L	0.10	109	70	130			
Nickel	0.257	mg/L	0.050	101	70	130			
Silver	0.0681	mg/L	0.010	68	70	130			S
Strontium	6.64	mg/L	0.10		70	130			A
Thallium	0.261	mg/L	0.10	104	70	130			
Thorium 232	0.271	mg/L	0.0010	108	70	130			
Uranium	0.274	mg/L	0.00030	108	70	130			
Vanadium	0.252	mg/L	0.10	101	70	130			
Zinc	0.267	mg/L	0.010	97	70	130			
Sample ID: C09010797-014DMS4	Post Digestion Spike			Run: SUB-C114097			01/30/09 21:53		
Antimony	0.0547	mg/L	0.050	109	70	130			
Barium	0.0636	mg/L	0.10	108	70	130			
Beryllium	0.0525	mg/L	0.010	105	70	130			
Cadmium	0.0521	mg/L	0.010	104	70	130			
Chromium	0.0515	mg/L	0.050	103	70	130			
Copper	0.0497	mg/L	0.010	98	70	130			
Lead	0.0522	mg/L	0.050	104	70	130			
Manganese	0.213	mg/L	0.010	117	70	130			
Nickel	0.0504	mg/L	0.050	98	70	130			
Silver	0.0191	mg/L	0.010	96	70	130			
Thallium	0.0523	mg/L	0.10	105	70	130			
Thorium 232	0.0573	mg/L	0.0010	115	70	130			
Uranium	0.0581	mg/L	0.00030	115	70	130			
Vanadium	0.0522	mg/L	0.10	104	70	130			
Zinc	0.0548	mg/L	0.010	102	70	130			
Sample ID: C09010797-014DMSD4	Post Digestion Spike Duplicate			Run: SUB-C114097			01/30/09 22:00		
Antimony	0.0550	mg/L	0.050	110	70	130	0.5	20	
Barium	0.0631	mg/L	0.10	107	70	130		20	
Beryllium	0.0536	mg/L	0.010	107	70	130	2.2	20	
Cadmium	0.0516	mg/L	0.010	103	70	130	0.9	20	
Chromium	0.0523	mg/L	0.050	104	70	130	1.5	20	
Copper	0.0493	mg/L	0.010	97	70	130	0.8	20	
Lead	0.0534	mg/L	0.050	107	70	130	2.3	20	
Manganese	0.218	mg/L	0.010	128	70	130	2.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R114097		
Sample ID: C09010797-014DMSD4	Post Digestion Spike Duplicate			Run: SUB-C114097			01/30/09 22:00		
Nickel	0.0500	mg/L	0.050	97	70	130		20	
Silver	0.0200	mg/L	0.010	100	70	130	4.3	20	
Thallium	0.0535	mg/L	0.10	107	70	130		20	
Thorium 232	0.0585	mg/L	0.0010	117	70	130	2.1	20	
Uranium	0.0591	mg/L	0.00030	117	70	130	1.7	20	
Vanadium	0.0532	mg/L	0.10	106	70	130		20	
Zinc	0.0545	mg/L	0.010	101	70	130	0.7	20	
Method: E200.8							Batch: C_R114166		
Sample ID: LRB	Method Blank			Run: SUB-C114166			02/02/09 11:50		
Manganese	ND	mg/L	5E-05						
Vanadium	ND	mg/L	9E-05						
Sample ID: LFB	Laboratory Fortified Blank			Run: SUB-C114166			02/02/09 11:56		
Manganese	0.0509	mg/L	0.0010	102	85	115			
Vanadium	0.0514	mg/L	0.0010	103	85	115			
Sample ID: R09010301-010C	Post Digestion Spike			Run: SUB-C114166			02/02/09 22:45		
Manganese	1.15	mg/L	0.010		70	130			A
Vanadium	0.0488	mg/L	0.10	97	70	130			
Sample ID: R09010301-010C	Post Digestion Spike Duplicate			Run: SUB-C114166			02/02/09 22:50		
Manganese	1.14	mg/L	0.010		70	130	1.1	20	A
Vanadium	0.0483	mg/L	0.10	96	70	130		20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R114210		
Sample ID: LRB	Method Blank		Run: SUB-C114210				02/03/09 14:15		
Aluminum	0.003	mg/L	0.002						
Chromium	0.0001	mg/L	8E-05						
Mercury	ND	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C114210				02/03/09 14:22		
Aluminum	0.0530	mg/L	0.0022	99	85	115			
Chromium	0.0490	mg/L	0.0010	98	85	115			
Mercury	0.00500	mg/L	0.0010	100	85	115			
Nickel	0.0485	mg/L	0.0010	97	85	115			
Sample ID: R09010301-008C	Post Digestion Spike		Run: SUB-C114210				02/03/09 17:52		
Aluminum	0.0553	mg/L	0.10	104	70	130			
Chromium	0.0490	mg/L	0.050	96	70	130			
Mercury	0.00559	mg/L	0.0010	112	70	130			
Nickel	0.0480	mg/L	0.050	94	70	130			
Sample ID: R09010301-008C	Post Digestion Spike Duplicate		Run: SUB-C114210				02/03/09 17:59		
Aluminum	0.0567	mg/L	0.10	107	70	130			20
Chromium	0.0492	mg/L	0.050	97	70	130			20
Mercury	0.00553	mg/L	0.0010	111	70	130	1.1		20
Nickel	0.0477	mg/L	0.050	94	70	130			20

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R114332		
Sample ID: LRB	Method Blank				Run: SUB-C114332		02/04/09 12:58		
Arsenic	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	4E-05						
Selenium	ND	mg/L	0.001						
Strontium	ND	mg/L	2E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C114332		02/04/09 13:05		
Arsenic	0.0508	mg/L	0.0010	102	85	115			
Molybdenum	0.0512	mg/L	0.0010	102	85	115			
Selenium	0.0509	mg/L	0.0014	102	85	115			
Strontium	0.0504	mg/L	0.0010	101	85	115			
Sample ID: C09010797-014DMS4	Post Digestion Spike				Run: SUB-C114332		02/04/09 20:46		
Arsenic	0.0543	mg/L	0.0010	105	70	130			
Molybdenum	0.0531	mg/L	0.050	105	70	130			
Selenium	0.0509	mg/L	0.0010	102	70	130			
Strontium	2.74	mg/L	0.10		70	130			A
Sample ID: C09010797-014DMSD4	Post Digestion Spike Duplicate				Run: SUB-C114332		02/04/09 20:53		
Arsenic	0.0551	mg/L	0.0010	107	70	130	1.5	20	
Molybdenum	0.0544	mg/L	0.050	107	70	130	2.5	20	
Selenium	0.0524	mg/L	0.0010	105	70	130	3	20	
Strontium	2.75	mg/L	0.10		70	130	0.3	20	A
Method: E200.8							Batch: C_R114411		
Sample ID: LRB	Method Blank				Run: SUB-C114411		02/06/09 13:14		
Selenium	ND	mg/L	0.001						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C114411		02/06/09 13:21		
Selenium	0.0524	mg/L	0.0014	105	85	115			
Sample ID: C09011015-001BMS4	Post Digestion Spike				Run: SUB-C114411		02/06/09 16:25		
Selenium	0.0546	mg/L	0.0010	106	70	130			
Sample ID: C09011015-001BMSD4	Post Digestion Spike Duplicate				Run: SUB-C114411		02/06/09 16:31		
Selenium	0.0543	mg/L	0.0010	106	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R114880		
Sample ID: LRB	Method Blank					Run: SUB-C114880		02/18/09 13:34	
Aluminum	ND	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank					Run: SUB-C114880		02/18/09 13:41	
Aluminum	0.0453	mg/L	0.0022	91	85	115			
Sample ID: C09020383-007BMS4	Post Digestion Spike					Run: SUB-C114880		02/18/09 15:50	
Aluminum	0.0521	mg/L	0.10	100	70	130			
Sample ID: C09020383-007BMSD4	Post Digestion Spike Duplicate					Run: SUB-C114880		02/18/09 15:57	
Aluminum	0.0521	mg/L	0.10	100	70	130		20	
Method: E245.1							Batch: B_36915		
Sample ID: MB-36915	Method Blank					Run: SUB-B123917		01/26/09 09:36	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-36915	Laboratory Fortified Blank					Run: SUB-B123917		01/26/09 09:45	
Mercury	0.0019	mg/L	0.0010	94	85	115			
Sample ID: B09011705-001BMS	Sample Matrix Spike					Run: SUB-B123917		01/26/09 09:52	
Mercury	0.0018	mg/L	0.0010	89	70	130			
Sample ID: B09011705-001BMSD	Sample Matrix Spike Duplicate					Run: SUB-B123917		01/26/09 09:54	
Mercury	0.0018	mg/L	0.0010	89	70	130	0	30	
Sample ID: R09010294-001C	Sample Matrix Spike					Run: SUB-B123917		01/26/09 10:15	
Mercury	0.0018	mg/L	0.00020	89	70	130			
Sample ID: R09010294-001C	Sample Matrix Spike Duplicate					Run: SUB-B123917		01/26/09 10:17	
Mercury	0.0018	mg/L	0.00020	88	70	130	1.1	30	
Method: E245.1							Batch: B_36926		
Sample ID: MB-36926	Method Blank					Run: SUB-B123917		01/26/09 11:14	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-36926	Laboratory Fortified Blank					Run: SUB-B123917		01/26/09 11:16	
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: R09010301-013J	Sample Matrix Spike					Run: SUB-B123917		01/26/09 11:23	
Mercury	0.0018	mg/L	0.0010	92	70	130			
Sample ID: R09010301-013J	Sample Matrix Spike Duplicate					Run: SUB-B123917		01/26/09 11:25	
Mercury	0.0019	mg/L	0.0010	94	70	130	2.2	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E245.1							Analytical Run: SUB-B123917			
Sample ID: QCS	Initial Calibration Verification Standard									
Mercury	0.0018	mg/L	0.0010	92	90	110			01/26/09 09:28	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R39252		
Sample ID: LFB0901211057-3	Laboratory Fortified Blank			Run: DIONEX_090121A			01/21/09 19:10		
Chloride	4.61	mg/L	0.50	92	90	110			
Fluoride	1.92	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0901211057-4	Laboratory Fortified Blank			Run: DIONEX_090121A			01/21/09 19:27		
Chloride	4.52	mg/L	0.50	90	90	110			
Fluoride	1.90	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.25	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.37	mg/L	0.10	95	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: R09010301-002AMS	Sample Matrix Spike			Run: DIONEX_090121A			01/21/09 23:17		
Chloride	249	mg/L	5.4	90	80	120			
Fluoride	102	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1110	mg/L	3.4	82	80	120			
Sample ID: R09010301-002AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_090121A			01/21/09 23:33		
Chloride	233	mg/L	5.4	83	80	120	6.8	10	
Fluoride	95.4	mg/L	0.56	94	80	120	7	10	
Nitrogen, Nitrate as N	109	mg/L	1.3	87	80	120	7.4	10	
Nitrogen, Nitrite as N	116	mg/L	2.9	92	80	120	7.1	10	
Sulfate	1070	mg/L	3.4	76	80	120	4	10	S
Sample ID: R09010301-006AMS	Sample Matrix Spike			Run: DIONEX_090121A			01/22/09 02:34		
Chloride	246	mg/L	5.4	89	80	120			
Fluoride	102	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	99	80	120			
Sulfate	1060	mg/L	3.4	82	80	120			
Sample ID: R09010301-006AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_090121A			01/22/09 02:50		
Chloride	237	mg/L	5.4	85	80	120	3.8	10	
Fluoride	98.0	mg/L	0.56	97	80	120	3.8	10	
Nitrogen, Nitrate as N	111	mg/L	1.3	89	80	120	4.1	10	
Nitrogen, Nitrite as N	118	mg/L	2.9	95	80	120	4.1	10	
Sulfate	1020	mg/L	3.4	76	80	120	4	10	S
Sample ID: R09010301-010AMS	Sample Matrix Spike			Run: DIONEX_090121A			01/22/09 05:51		
Chloride	255	mg/L	5.4	90	80	120			
Fluoride	103	mg/L	0.56	101	80	120			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R39252		
Sample ID: R09010301-010AMS	Sample Matrix Spike		Run: DIONEX_090121A				01/22/09 05:51		
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sulfate	1990	mg/L	3.4	91	80	120			
Sample ID: R09010301-010AMSD	Sample Matrix Spike Duplicate		Run: DIONEX_090121A				01/22/09 06:07		
Chloride	243	mg/L	5.4	85	80	120	4.8	10	
Fluoride	98.0	mg/L	0.56	96	80	120	5	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	89	80	120	5.1	10	
Nitrogen, Nitrite as N	118	mg/L	2.9	95	80	120	5.4	10	
Sulfate	1930	mg/L	3.4	82	80	120	3.3	10	
Sample ID: R09010301-014AMS	Sample Matrix Spike		Run: DIONEX_090121A				01/22/09 09:08		
Chloride	248	mg/L	5.4	90	80	120			
Fluoride	102	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120			
Sulfate	1130	mg/L	3.4	84	80	120			
Sample ID: R09010301-014AMSD	Sample Matrix Spike Duplicate		Run: DIONEX_090121A				01/22/09 09:24		
Chloride	239	mg/L	5.4	86	80	120	3.6	10	
Fluoride	98.7	mg/L	0.56	97	80	120	3.7	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	3.5	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	3.3	10	
Sulfate	1120	mg/L	3.4	82	80	120	1.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0604		
Sample ID: MB-GrAB-0604	Method Blank				Run: SUB-C114642			02/06/09 03:23	
Gross Alpha	1	pCi/L							
Gross Alpha precision (±)	0.6	pCi/L							
Gross Alpha MDC	0.5	pCi/L							
Gross Beta	-2	pCi/L							U
Gross Beta precision (±)	1	pCi/L							
Gross Beta MDC	1	pCi/L							
Sample ID: UNAT-GrAB-0604	Laboratory Control Sample				Run: SUB-C114642			02/06/09 03:24	
Gross Alpha	130	pCi/L	97	70	130				
Sample ID: Cs137-GrAB-0604	Laboratory Control Sample				Run: SUB-C114642			02/06/09 03:24	
Gross Beta	84	pCi/L	92	70	130				
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114642			02/06/09 03:24	
Gross Alpha	120	pCi/L	85	70	130				
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114642			02/06/09 03:23	
Gross Alpha	120	pCi/L	88	70	130	3.6	15.7		
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114642			02/06/09 03:23	
Gross Beta	79	pCi/L	87	70	130				
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114642			02/06/09 03:23	
Gross Beta	82	pCi/L	89	70	130	3	16.4		
Method: E903.0							Batch: C_21458		
Sample ID: R09010301-001I	Sample Matrix Spike				Run: SUB-C114911			02/18/09 13:43	
Radium 226	19	pCi/L	102	70	130				
Sample ID: R09010301-001I	Sample Matrix Spike Duplicate				Run: SUB-C114911			02/18/09 13:43	
Radium 226	18	pCi/L	102	70	130	2.9	24.4		
Sample ID: LCS-21458	Laboratory Control Sample				Run: SUB-C114911			02/18/09 13:43	
Radium 226	70	pCi/L	96	70	130				
Sample ID: MB-21458	Method Blank				Run: SUB-C114911			02/18/09 15:52	
Radium 226	0.02	pCi/L							U
Radium 226 precision (±)	0.2	pCi/L							
Radium 226 MDC	0.4	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_21459		
Sample ID: C09010797-007IMS	Sample Matrix Spike				Run: SUB-C114901		02/18/09 13:41		
Radium 226	19	pCi/L	98		70	130			
Sample ID: C09010797-007IMSD	Sample Matrix Spike Duplicate				Run: SUB-C114901		02/18/09 13:41		
Radium 226	19	pCi/L	97		70	130	1	24	
Sample ID: LCS-21459	Laboratory Control Sample				Run: SUB-C114901		02/18/09 15:51		
Radium 226	74	pCi/L	102		70	130			
Sample ID: MB-21459	Method Blank				Run: SUB-C114901		02/18/09 15:51		
Radium 226	-0.02	pCi/L							U
Radium 226 precision (±)	0.2	pCi/L							
Radium 226 MDC	0.4	pCi/L							
Method: E903.0							Batch: C_RA226-3432		
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114417		02/05/09 12:53		
Radium 226	16	pCi/L	105		70	130			
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114417		02/05/09 12:53		
Radium 226	15	pCi/L	96		70	130	8	25.6	
Sample ID: MB-RA226-3432	Method Blank				Run: SUB-C114417		02/05/09 14:35		
Radium 226	-0.1	pCi/L							U
Radium 226 precision (±)	0.1	pCi/L							
Radium 226 MDC	0.3	pCi/L							
Sample ID: LCS-RA226-3432	Laboratory Control Sample				Run: SUB-C114417		02/05/09 14:35		
Radium 226	8.6	pCi/L	111		70	130			
Method: E907.0							Batch: C_21458		
Sample ID: C09010595-006AMS	Sample Matrix Spike				Run: SUB-C115513		03/03/09 16:30		
Thorium 230	49.7	pCi/Filter	108		70	130			
Sample ID: C09010595-006AMSD	Sample Matrix Spike Duplicate				Run: SUB-C115513		03/03/09 16:30		
Thorium 230	52.9	pCi/Filter	113		70	130	6.2	54	
Sample ID: LCS-21458	Laboratory Control Sample				Run: SUB-C115513		03/03/09 16:30		
Thorium 230	5.21	pCi/Filter	109		70	130			
Sample ID: MB-21458	Method Blank				Run: SUB-C115513		03/03/09 16:30		
Thorium 230	0.1	pCi/Filter							U

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_21459		
Sample ID: R09010302-0011	Sample Matrix Spike				Run: SUB-C115509				03/01/09 14:58
Thorium 230	15	pCi/L		134	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: R09010302-0011	Sample Matrix Spike Duplicate				Run: SUB-C115509				03/01/09 14:58
Thorium 230	12	pCi/L		107	70	130	20	53	
Sample ID: LCS-21459	Laboratory Control Sample				Run: SUB-C115509				03/02/09 09:04
Thorium 230	5.2	pCi/L		113	70	130			
Sample ID: MB-21459	Method Blank				Run: SUB-C115509				03/02/09 09:04
Thorium 230	-0.07	pCi/L							U
Method: E907.0							Batch: C_RA-TH-ISO-0741		
Sample ID: LCS-RA-TH-ISO-0741	Laboratory Control Sample				Run: SUB-C114512				02/05/09 16:36
Thorium 230	5.1	pCi/L	0.20	103	70	130			
Sample ID: R09010301-001H	Sample Matrix Spike				Run: SUB-C114512				02/05/09 16:36
Thorium 230	17	pCi/L	0.20	112	70	130			
Sample ID: R09010301-001H	Sample Matrix Spike Duplicate				Run: SUB-C114512				02/05/09 16:36
Thorium 230	16	pCi/L	0.20	98	70	130	8.8	42.4	
Sample ID: MB-RA-TH-ISO-0741	Method Blank				Run: SUB-C114512				02/06/09 08:45
Thorium 230	ND	pCi/L							U
Method: E909.0M							Batch: C_21458		
Sample ID: R09010301-002I	Sample Matrix Spike				Run: SUB-C115433				02/12/09 09:35
Lead 210	230	pCi/L		81	70	130			
Sample ID: R09010301-002I	Sample Matrix Spike Duplicate				Run: SUB-C115433				02/12/09 09:35
Lead 210	230	pCi/L		82	70	130	0.8	30	
Sample ID: MB-R115433	Method Blank				Run: SUB-C115433				02/12/09 09:35
Lead 210	-0.3	pCi/L							U
Lead 210 precision (±)	4	pCi/L							
Lead 210 MDC	7	pCi/L							
Sample ID: LCS-R115433	Laboratory Control Sample				Run: SUB-C115433				02/12/09 09:35
Lead 210	110	pCi/L		95	70	130			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R114833		
Sample ID: C09010853-001DMS	Sample Matrix Spike					Run: SUB-C114833			02/03/09 10:43
Lead 210	94	pCi/L		78	70	130			
Sample ID: C09010853-002DMD	Sample Duplicate					Run: SUB-C114833			02/03/09 10:43
Lead 210	0.50	pCi/L					700	30	UR
Lead 210 precision (±)	5.1	pCi/L							
Lead 210 MDC	8.5	pCi/L							
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R114833	Method Blank					Run: SUB-C114833			02/03/09 10:43
Lead 210	-0.7	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	4	pCi/L							
Sample ID: LCS-R114833	Laboratory Control Sample					Run: SUB-C114833			02/03/09 10:43
Lead 210	50	pCi/L		88	70	130			
Method: E909.0M							Batch: C_R115907		
Sample ID: MB-R115907	Method Blank					Run: SUB-C115907			03/10/09 13:35
Lead 210	-1	pCi/L							U
Lead 210 precision (±)	4	pCi/L							
Lead 210 MDC	7	pCi/L							
Sample ID: LCS-R115907	Laboratory Control Sample					Run: SUB-C115907			03/10/09 13:35
Lead 210	65	pCi/L		97	70	130			
- No MS or MSD available due to spiking error by analyst..									
Method: RMO-3008							Batch: C_PO210-0181		
Sample ID: R09010302-001K	Sample Matrix Spike					Run: SUB-C114991			02/13/09 14:35
Polonium 210	13	pCi/L		79	70	130			
Sample ID: R09010302-001K	Sample Matrix Spike Duplicate					Run: SUB-C114991			02/17/09 10:36
Polonium 210	17	pCi/L		103	70	130	26	58.3	
Sample ID: LCS-PO210-0181	Laboratory Control Sample					Run: SUB-C114991			02/17/09 10:36
Polonium 210	14	pCi/L		83	70	130			
Sample ID: MB-PO210-0181	Method Blank					Run: SUB-C114991			02/17/09 10:36
Polonium 210	-0.04	pCi/L							U
Polonium 210 MDC	0.7	pCi/L							
Polonium 210 precision (±)	0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010301

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008							Batch: C_R115005		
Sample ID: C09020173-003FMS	Sample Matrix Spike				Run: SUB-C115005				02/19/09 12:18
Polonium 210	21	pCi/L	74		70	130			
Sample ID: C09020173-003FMSD	Sample Matrix Spike Duplicate				Run: SUB-C115005				02/19/09 12:18
Polonium 210	32	pCi/L	113		70	130	39	53.2	
Sample ID: LCS-21459	Laboratory Control Sample				Run: SUB-C115005				02/19/09 12:18
Polonium 210	75	pCi/L	98		70	130			
Sample ID: MB-21459	Method Blank				Run: SUB-C115005				02/19/09 12:18
Polonium 210	0.08	pCi/L							U
Polonium 210 MDC	2	pCi/L							
Polonium 210 precision (±)	1.0	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

Sample R09010301-001A not reported to LIMS

DONOT MAIL
BLANK

SAMPLE ID: R09010301-001A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	<1	0.01
Ca	<1	0.01	SO4	<1	0.00
Mg	<1	0.00	T. Alkalinity	<1	0.00
K	<1	0.00	HCO3	<1	
Na	<1	0.01	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.00			
Hardness (as CaCO3)	<1		OH		
Hardness, grains/gal.	0.03		NO3	<0.1	0.00
NH4+	<0.1	0.00	PO4		
Si	<0.1		F	<0.1	0.00
			CN		
			Br	<0.1	0.00
	Total Cations	0.02	Total Anions		0.01

BALANCE, (± 5%) 34.15
BALANCE, "sigma" -0.08

	Measured	Calculated		Salinity	
Sample pH	6.0			0.00	
Conductivity (umho/cm)	<1	2		Cl as NaCl	0
TDS	<10	<10		Carbonate Hardness	0
TDS Ratio	#VALUE!			Non-carbonate Hardness	0
Resistivity (RW - ohm-m)				Free CO2	
				Total CO2	
Estimated Ionic Strength (from TDS)		0		SAR	0.07
				Langlier Saturation Index	-7.4
				Ryznar Index	20.82
				Aggressive Index	#NUM!
Soft water.				Temp	20

SAMPLE ID: R09010301-001A

BALANCE, (± 5%) 34.15

Sample R09010301-002A not reported to LIMS

SAMPLE ID: R09010301-002A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	10	0.28
Ca	85	4.23	SO4	499	10.38
Mg	30	2.44	T. Alkalinity	176	3.52
K	12	0.31	HCO3	215	
Na	173	7.53	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.01			
Hardness (as CaCO3)	334		OH		
Hardness, grains/gal.	19.5		NO3	<0.1	0.00
NH4+	<0.1	0.00	PO4		
Si	7.4		F	0.6	0.03
			CN		
			Br	0.2	0.00
	Total Cations	14.52		Total Anions	14.21

BALANCE, (± 5%) 1.07
BALANCE, "sigma" -0.94

	Measured	Calculated		
Sample pH	7.5		Salinity	0.67
Conductivity (umho/cm)	1310	1220	Cl as NaCl	17
TDS	904	934	Carbonate Hardness	176
TDS Ratio	0.97		Non-carbonate Hardness	158
Resistivity (RW - ohm-m)	7.63		Free CO2	
			Total CO2	
Estimated Ionic Strength (from TDS)	0.0226		SAR	4.12
			Langlier Saturation Index	0.1
			Ryznar Index	7.27
			Aggressive Index	12.03
			Temp	20

Very hard water.

SAMPLE ID: R09010301-002A

BALANCE, (± 5%) 1.07

Sample R09010301-003A not reported to LIMS

SAMPLE ID: R09010301-003A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	10	0.28
Ca	83	4.16	SO4	492	10.24
Mg	30	2.42	T. Alkalinity	178	3.56
K	12	0.31	HCO3	217	
Na	174	7.56	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.01			
Hardness (as CaCO3)	330		OH		
Hardness, grains/gal.	19.3		NO3	<0.1	0.00
NH4+	<0.1	0.00	PO4		
Si	7.4		F	0.6	0.03
			CN		
			Br	0.2	0.00
	Total Cations	14.48	Total Anions	14.11	

BALANCE, (± 5%) 1.26
BALANCE, "sigma" -1.11

	Measured	Calculated
Sample pH	7.5	
Conductivity (umho/cm)	1310	1210
TDS	952	928
TDS Ratio		1.03
Resistivity (RW - ohm-m)		7.63
Estimated Ionic Strength (from TDS)		0.0238

Salinity	0.67
Cl as NaCl	17
Carbonate Hardness	178
Non-carbonate Hardness	152
Free CO2	
Total CO2	
SAR	4.16
Langlier Saturation Index	0.2
Ryznar Index	7.21
Aggressive Index	12.10
Temp	20

Very hard water.

SAMPLE ID: R09010301-003A

BALANCE, (± 5%) 1.26

Sample R09010301-004A not reported to LIMS

SAMPLE ID: R09010301-004A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	5	0.14
Ca	70	3.51	SO4	389	8.10
Mg	21	1.73	T. Alkalinity	138	2.76
K	10	0.25	HCO3	168	
Na	131	5.68	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.00			
Hardness (as CaCO3)	262		OH		
Hardness, grains/gal.	15.3		NO3	<0.1	0.00
NH4+	<0.1	0.00	PO4		
Si	7.8		F	0.6	0.03
			CN		
			Br	0.2	0.00
	Total Cations	11.18		Total Anions	11.03
	BALANCE, (± 5%)	0.66			
	BALANCE, "sigma"	-0.53			

	Measured	Calculated		
Sample pH	7.2		Salinity	0.53
Conductivity (umho/cm)	1050	971	Cl as NaCl	8
TDS	716	730	Carbonate Hardness	138
TDS Ratio	0.98		Non-carbonate Hardness	124
Resistivity (RW - ohm-m)	9.52		Free CO2	
			Total CO2	
Estimated Ionic Strength (from TDS)	0.0179		SAR	3.51
			Langlier Saturation Index	-0.3
			Ryznar Index	7.85
			Aggressive Index	11.57
			Temp	20

Very hard water.

SAMPLE ID: R09010301-004A

BALANCE, (± 5%) 0.66

Sample R09010301-005A not reported to LIMS

SAMPLE ID: R09010301-005A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	12	0.33
Ca	50	2.49	SO4	500	10.41
Mg	18	1.50	T. Alkalinity	174	3.48
K	9	0.24	HCO3	212	
Na	247	10.74	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.01			
Hardness (as CaCO3)	200		OH		
Hardness, grains/gal.	11.7		NO3	<0.1	0.00
NH4+	0.2	0.01	PO4		
Si	7.9		F	0.6	0.03
			CN		
			Br	0.2	0.00
	Total Cations	14.99		Total Anions	14.25

BALANCE, (± 5%) 2.54
BALANCE, "sigma" -2.27

	Measured	Calculated
Sample pH	7.8	
Conductivity (umho/cm)	1350	1230
TDS	912	962
TDS Ratio		0.95
Resistivity (RW - ohm-m)		7.41
Estimated Ionic Strength (from TDS)	0.0228	

Salinity	0.69
Cl as NaCl	19
Carbonate Hardness	174
Non-carbonate Hardness	26
Free CO2	
Total CO2	
SAR	7.60
Langlier Saturation Index	0.2
Ryznar Index	7.39
Aggressive Index	12.15
Temp	20

Moderately hard water.

SAMPLE ID: R09010301-005A

BALANCE, (± 5%) 2.54

Sample R09010301-006A not reported to LIMS

SAMPLE ID: R09010301-006A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	8	0.23
Ca	50	2.48	SO4	444	9.25
Mg	16	1.35	T. Alkalinity	168	3.36
K	9	0.22	HCO3	205	
Na	206	8.97	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.00			
Hardness (as CaCO3)	192		OH		
Hardness, grains/gal.	11.2		NO3	<0.1	0.00
NH4+	0.2	0.01	PO4		
Si	7.9		F	0.7	0.03
			CN		
			Br	0.2	0.00
	Total Cations	13.04		Total Anions	12.87
	BALANCE, (± 5%)	0.64			
	BALANCE, "sigma"	-0.54			

	Measured	Calculated		
Sample pH	7.7		Salinity	0.62
Conductivity (umho/cm)	1220	1100	Cl as NaCl	13
TDS	818	856	Carbonate Hardness	168
TDS Ratio	0.96		Non-carbonate Hardness	24
Resistivity (RW - ohm-m)	8.20		Free CO2	
Estimated Ionic Strength (from TDS)	0.0205		Total CO2	
			SAR	6.48
			Langlier Saturation Index	0.1
			Ryznar Index	7.48
			Aggressive Index	12.05
			Temp	20

Moderately hard water.

SAMPLE ID: R09010301-006A

BALANCE, (± 5%) 0.64

Sample R09010301-007A not reported to LIMS

SAMPLE ID: R09010301-007A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	13	0.36
Ca	54	2.67	SO4	465	9.69
Mg	21	1.72	T. Alkalinity	170	3.40
K	10	0.26	HCO3	207	
Na	213	9.25	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.01			
Hardness (as CaCO3)	220		OH		
Hardness, grains/gal.	12.9		NO3	<0.1	0.00
NH4+	<0.1	0.00	PO4		
Si	7.8		F	0.6	0.03
			CN		
			Br	0.3	0.00
	Total Cations	13.91		Total Anions	13.48

BALANCE, (± 5%) 1.57
BALANCE, "sigma" -1.37

	Measured	Calculated
Sample pH	7.9	
Conductivity (umho/cm)	1310	1160
TDS	944	899
TDS Ratio		1.05
Resistivity (RW - ohm-m)		7.63
Estimated Ionic Strength (from TDS)		0.0236

Salinity	0.67
Cl as NaCl	21
Carbonate Hardness	170
Non-carbonate Hardness	50
Free CO2	
Total CO2	
SAR	6.23
Langlier Saturation Index	0.3
Ryznar Index	7.32
Aggressive Index	12.21
Temp	20

Very hard water.

SAMPLE ID: R09010301-007A

BALANCE, (± 5%) 1.57

Sample R09010301-008A not reported to LIMS

SAMPLE ID: R09010301-008A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	5	0.15
Ca	45	2.24	SO4	399	8.31
Mg	16	1.28	T. Alkalinity	150	3.00
K	9	0.23	HCO3	183	
Na	177	7.71	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.00			
Hardness (as CaCO3)	176		OH		
Hardness, grains/gal.	10.3		NO3	<0.1	0.00
NH4+	<0.1	0.00	PO4		
Si	8.3		F	0.6	0.03
			CN		
			Br	0.2	0.00
	Total Cations	11.47		Total Anions	11.50

BALANCE, (± 5%) -0.13
BALANCE, "sigma" 0.11

	Measured	Calculated		
Sample pH	7.7		Salinity	0.55
Conductivity (umho/cm)	1080	988	Cl as NaCl	9
TDS	782	765	Carbonate Hardness	150
TDS Ratio	1.02		Non-carbonate Hardness	26
Resistivity (RW - ohm-m)	9.26		Free CO2	
			Total CO2	
Estimated Ionic Strength (from TDS)	0.0196		SAR	5.82
			Langlier Saturation Index	0.0
			Ryznar Index	7.67
			Aggressive Index	11.94
			Temp	20

Moderately hard water.

SAMPLE ID: R09010301-008A

BALANCE, (± 5%) -0.13

Sample R09010301-009A not reported to LIMS

SAMPLE ID: R09010301-009A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	10	0.27
Ca	341	17.03	SO4	1340	27.94
Mg	127	10.48	T. Alkalinity	118	2.36
K	16	0.41	HCO3	144	
Na	92	4.00	CO3	<1	
Al	<1	0.00			
Fe	2	0.06			
Mn	2	0.17			
Hardness (as CaCO3)	1380		OH		
Hardness, grains/gal.	80.5		NO3	<0.1	0.00
NH4+	0.1	0.01	PO4		
Si	10.2		F	0.4	0.02
			CN		
			Br	0.2	0.00
	Total Cations	32.17		Total Anions	30.59

BALANCE, (± 5%) 2.51
BALANCE, "sigma" -2.72

	Measured	Calculated
Sample pH	6.7	
Conductivity (umho/cm)	2410	2670
TDS	1670	2030
TDS Ratio	0.82	
Resistivity (RW - ohm-m)	4.15	
Estimated Ionic Strength (from TDS)	0.0418	

Salinity	1.25
Cl as NaCl	16
Carbonate Hardness	118
Non-carbonate Hardness	1259
Free CO2	
Total CO2	
SAR	1.08
Langlier Saturation Index	-0.3
Ryznar Index	7.29
Aggressive Index	11.74
Temp	20

Very hard water.

SAMPLE ID: R09010301-009A

BALANCE, (± 5%) 2.51

Sample R09010301-010A not reported to LIMS

SAMPLE ID: **R09010301-010A**

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	16	0.44
Ca	350	17.45	SO4	1310	27.22
Mg	114	9.42	T. Alkalinity	174	3.48
K	21	0.53	HCO3	212	
Na	161	6.99	CO3	<1	
Al	<1	0.00			
Fe	7	0.25			
Mn	1	0.08			
Hardness (as CaCO3)	1340		OH		
Hardness, grains/gal.	78.6		NO3	<0.1	0.00
NH4+	0.5	0.03	PO4		
Si	8.5		F	0.6	0.03
			CN		
			Br	0.2	0.00
	Total Cations	34.75	Total Anions		31.18
	BALANCE, (± 5%)	5.42			
	BALANCE, "sigma"	-6.06			

	Measured	Calculated		
Sample pH	6.7		Salinity	1.35
Conductivity (umho/cm)	2600	2720	Cl as NaCl	26
TDS	2080	2100	Carbonate Hardness	174
TDS Ratio	0.99		Non-carbonate Hardness	1171
Resistivity (RW - ohm-m)	3.85		Free CO2	
			Total CO2	
Estimated Ionic Strength (from TDS)	0.0521		SAR	1.90
			Langlier Saturation Index	-0.2
			Ryznar Index	7.07
			Aggressive Index	11.85
			Temp	20

Very hard water.

SAMPLE ID: R09010301-010A

BALANCE, (± 5%) 5.42

Sample R09010301-011A not reported to LIMS

SAMPLE ID: R09010301-011A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	13	0.36
Ca	358	17.87	SO4	1370	28.44
Mg	117	9.59	T. Alkalinity	252	5.04
K	20	0.51	HCO3	307	
Na	145	6.32	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.03			
Hardness (as CaCO3)	1370		OH		
Hardness, grains/gal.	80.4		NO3	<0.1	0.00
NH4+	<0.1	0.00	PO4		
Si	8.7		F	0.5	0.03
			CN		
			Br	0.2	0.00
	Total Cations	34.32		Total Anions	33.87
	BALANCE, (± 5%)	0.67			
	BALANCE, "sigma"	-0.72			

	Measured	Calculated		
Sample pH	7.1		Salinity	1.29
Conductivity (umho/cm)	2480	2770	Cl as NaCl	21
TDS	2170	2190	Carbonate Hardness	252
TDS Ratio	0.99		Non-carbonate Hardness	1122
Resistivity (RW - ohm-m)	4.03		Free CO2	
			Total CO2	
Estimated Ionic Strength (from TDS)	0.0542		SAR	1.70
			Langlier Saturation Index	0.4
			Ryznar Index	6.29
			Aggressive Index	12.47
			Temp	20

Very hard water.

SAMPLE ID: R09010301-011A

BALANCE, (± 5%) 0.67

Sample R09010301-012A not reported to LIMS

SAMPLE ID: R09010301-012A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	11	0.32
Ca	49	2.43	SO4	436	9.08
Mg	21	1.69	T. Alkalinity	166	3.32
K	14	0.36	HCO3	203	
Na	189	8.20	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.00			
Hardness (as CaCO3)	206		OH		
Hardness, grains/gal.	12.1		NO3	<0.1	0.00
NH4+	0.2	0.02	PO4		
Si	7.7		F	0.6	0.03
			CN		
			Br	0.2	0.00
	Total Cations	12.71		Total Anions	12.75
	BALANCE, (± 5%)	-0.14			
	BALANCE, "sigma"	0.12			

	Measured	Calculated		
Sample pH	8.0		Salinity	0.61
Conductivity (umho/cm)	1210	1080	Cl as NaCl	18
TDS	796	840	Carbonate Hardness	166
TDS Ratio	0.95		Non-carbonate Hardness	40
Resistivity (RW - ohm-m)	8.26		Free CO2	
			Total CO2	
			SAR	5.71
Estimated Ionic Strength (from TDS)	0.0199		Langlier Saturation Index	0.4
			Ryznar Index	7.23
			Aggressive Index	12.31
			Temp	20

Very hard water.

SAMPLE ID: R09010301-012A

BALANCE, (± 5%) -0.14

Sample R09010301-013A not reported to LIMS

SAMPLE ID: **R09010301-013A**

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	12	0.35
Ca	27	1.35	SO4	483	10.06
Mg	10	0.79	T. Alkalinity	178	3.56
K	9	0.23	HCO3	217	
Na	253	10.99	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.00			
Hardness (as CaCO3)	107		OH		
Hardness, grains/gal.	6.26		NO3	<0.1	0.00
NH4+	0.4	0.03	PO4		
Si	7.5		F	0.5	0.03
			CN		
			Br	0.3	0.00
	Total Cations	13.38		Total Anions	13.99
	BALANCE, (± 5%)	-2.22			
	BALANCE, "sigma"	1.88			

	Measured	Calculated		
Sample pH	8.1		Salinity	0.71
Conductivity (umho/cm)	1400	1160	Cl as NaCl	20
TDS	922	921	Carbonate Hardness	107
TDS Ratio		1	Non-carbonate Hardness	0
Resistivity (RW - ohm-m)		7.14	Free CO2	
			Total CO2	
Estimated Ionic Strength (from TDS)		0.0231	SAR	10.62
			Langlier Saturation Index	0.2
			Ryznar Index	7.67
			Aggressive Index	12.13
			Temp	20

Moderately hard water.

SAMPLE ID: R09010301-013A

BALANCE, (± 5%) -2.22

Sample R09010301-014A not reported to LIMS

SAMPLE ID: R09010301-014A

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	9	0.25
Ca	87	4.32	SO4	508	10.57
Mg	33	2.70	T. Alkalinity	208	4.16
K	12	0.32	HCO3	254	
Na	162	7.03	CO3	<1	
Al	<1	0.00			
Fe	<1	0.00			
Mn	<1	0.01			
Hardness (as CaCO3)	351		OH		
Hardness, grains/gal.	20.5		NO3	<0.1	0.00
NH4+	0.2	0.02	PO4		
Si	7.6		F	0.5	0.02
			CN		
			Br	0.2	0.00
	Total Cations	14.40	Total Anions	15.00	
	BALANCE, (± 5%)	-2.05			
	BALANCE, "sigma"	1.78			

	Measured	Calculated		
Sample pH	7.6		Salinity	0.70
Conductivity (umho/cm)	1370	1220	Cl as NaCl	15
TDS	958	956	Carbonate Hardness	208
TDS Ratio		1	Non-carbonate Hardness	143
Resistivity (RW - ohm-m)		7.30	Free CO2	
			Total CO2	
			SAR	3.75
Estimated Ionic Strength (from TDS)		0.024	Langlier Saturation Index	0.3
			Ryznar Index	7.03
			Aggressive Index	12.20
			Temp	20

Very hard water.

SAMPLE ID: R09010301-014A

BALANCE, (± 5%) -2.05

Linda Larson

From: Steve Carlston [scarlston@energylab.com]
Sent: Monday, March 16, 2009 4:40 PM
To: llarson@energylab.com
Subject: R09010301

Linda-dear;

Please change the metals report from L quals to D plus on the two seleniums please change the RL to 0.002 and the QUAL from B to D.

Thanks!

Steven Carlston

Project Manager, Technical Data Review
Toll Free: 888.235.0515 x3213
Office: 307.235.0515 x3213
Fax: 307.234.1639
scarlston@energylab.com

Energy Laboratories, Inc.

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This transmission is CONFIDENTIAL. If you have received this in error,
please contact Energy Laboratories, Inc. immediately.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Scott Env. Project Name, PWS, Permit, Etc: DeW Parkade / Powertek
 Report Mail Address: RESPEC Contact Name: Phone/Fax:
 Invoice Address: Invoice Contact & Phone: Email:

EPA/State Compliance: Yes No
 Sampler: (Please Print) Allen Smith
 Quote/Bottle Order:

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED		Normal Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by:
				SEE ATTACHED	Comments:			
1 DeW Pond Blk 01	1-20-09	7:00	water					Receipt Temp: <u>2.4</u> °C
2 GW 622	1-20-09	10:51	water					On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3 GW 622	1-20-09	10:55	water					Custody Seal Y N
4 GW 615	1-20-09	11:10	"					Intact Y N
5 GW 695	1-20-09	12:15	"					Signature Match Y N
6 GW 697	1-20-09	12:35	"					LABORATORY USE ONLY
7 GW 681	1-20-09	12:50	"					<u>809010301-201</u>
8 GW 689	1-20-09	18:05	"					<u>202</u>
9 GW 698	1-20-09	14:20	"					<u>203</u>
10 GW 3026	1-20-09	14:25	"					<u>204</u>
Custody Record MUST be Signed				Signature: <u>Allen Smith</u>	Date/Time: <u>1-21-09 10:37</u>	Received by (print): <u> </u>	Signature: <u> </u>	Date/Time: <u> </u>
Sample Disposal: <u> </u> Return to Client: <u> </u> Lab Disposal: <u> </u>				Signature: <u> </u>	Date/Time: <u> </u>	Received by (print): <u> </u>	Signature: <u> </u>	Date/Time: <u> </u>

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Scott Env. Project Name, PWS, Permit, Etc.: Pow Sack / Power Tech EPA/State Compliance: Yes No

Report Mail Address: RESPEC Contact Name: Phone/Fax: Sampler: (Please Print)

Invoice Address: Invoice Contact & Phone: Purchase Order: Quote/Bottle Order:

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

- DW
- GSA
- POTW/MWTP
- State:
- Other:
- A2LA
- EDD/EDT (Electronic Data)
- Format:
- LEVEL IV
- NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED						Normal Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: Cooler ID(s):
				Number of Containers	Sample Type: A W S V B O	Vegetation	Air	Water	Solids			
1 GW 680	1-20-09	15:25	Water									Receipt Temp: <u>2.4</u> °C
2 GW 688	1-20-09	15:35	"									On Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No
3 Ponds well	1-20-09	15:05	"									Custody Seal Y N
4 GW 696	1-20-09	16:55	"									Intact Y N
5 GW 694	1-20-09	17:00	"									Signature Match Y N
6												
7												
8												
9												
10												

As Per Quote

R U S H

LABORATORY USE ONLY
 89910301-011
 012
 013
 014

Received by (print): Steve Hoiland Date/Time: 1-21-09 10:37 Signature:

Received by (print): Date/Time: Signature:

Received by Laboratory: Steve Hoiland (210910301) Date/Time: Signature:

Sample Disposal: Return to Client: Lab Disposal:

Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

March 17, 2009

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R09010302 Quote ID: R286

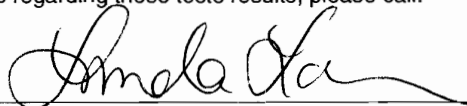
Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample for RESPEC Inc on 1/21/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R09010302-001	GW703	01/20/09 15:05	01/21/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: 

Linda Larson
 Rapid City - Project Manager



CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R09010302

Date: 17-Mar-09

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.

- The Mercury was run out of hold due to laboratory error.

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

BRANCH LABORATORY IDENTIFIERS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

Comments imported for SUBBED Workorder: B09011713

Prep Comments for Sample R09010302-001J, Test PRP-HG-245.1: The prep HoldTime was exceeded by 2.78 days.

Prep Comments for Sample R09010302-001J, Test PRP-HG-245.1: The prep HoldTime was exceeded by 2.78 days.

End of comments imported for SUBBED Workorder: B09011713



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010302-001
 Client Sample ID: GW703

Report Date: 03/17/09
 Collection Date: 01/20/09 15:05
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	01/26/09 15:33/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/09 15:33/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	01/26/09 15:33/mb
Calcium	72.6	mg/L		0.5		2	E200.7	01/30/09 21:32/eli-c
Chloride	16	mg/L		1		1	E300.0	01/22/09 10:13/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	01/22/09 10:13/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	01/30/09 21:32/eli-c
Nitrogen, Ammonia as N	1.6	mg/L		0.1		4	A4500-NH3 G	01/21/09 17:45/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/22/09 10:13/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/22/09 10:13/jmh
Potassium	9.3	mg/L		0.5		2	E200.7	01/30/09 21:32/eli-c
Sodium	370	mg/L		0.5		2	E200.7	01/30/09 21:32/eli-c
Sulfate	828	mg/L	D	3		50	E300.0	01/22/09 09:57/jmh
Silica	4.2	mg/L		0.2		2	E200.7	01/30/09 21:32/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2420	umhos/cm		5.0		1	A2510 B	01/22/09 15:11/tb
Oxidation-Reduction Potential	88	mV				1	A2580 B	01/27/09 11:00/jmh
pH	11.4	s.u.		0.01		1	A4500-H B	01/22/09 10:22/tb
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	03/16/09 16:28/ADM
Solids, Total Dissolved TDS @ 180 C	1400	mg/L		5		1	A2540 C	01/26/09 09:26/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	02/20/09 13:18/eli-c
Arsenic	ND	mg/L		0.001		5	E200.8	01/31/09 01:17/eli-c
Barium	ND	mg/L		0.1		5	E200.8	01/31/09 01:17/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	01/30/09 21:32/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	01/31/09 01:17/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	01/31/09 01:17/eli-c
Copper	ND	mg/L		0.01		5	E200.8	01/31/09 01:17/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	01/30/09 21:32/eli-c
Lead	ND	mg/L		0.001		5	E200.8	01/31/09 01:17/eli-c
Manganese	ND	mg/L		0.01		5	E200.8	01/31/09 01:17/eli-c
Mercury	ND	mg/L		0.001		5	E200.8	01/31/09 01:17/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.8	01/31/09 01:17/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	01/31/09 01:17/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/09 10:57/eli-c
Silver	ND	mg/L		0.005		5	E200.8	01/31/09 01:17/eli-c
Thorium 232	ND	mg/L		0.005		5	E200.8	01/31/09 01:17/eli-c
Uranium	0.0003	mg/L		0.0003		5	E200.8	01/31/09 01:17/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Page 1 of 3



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010302-001
 Client Sample ID: GW703

Report Date: 03/17/09
 Collection Date: 01/20/09 15:05
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			5	E200.8	01/31/09 01:17/eli-c
Zinc	0.03	mg/L		0.01			5	E200.8	01/31/09 01:17/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	02/19/09 01:45/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	02/24/09 16:56/eli-c
Selenium-VI	ND	mg/L		0.001			1	A3114 B	02/25/09 11:07/eli-c
RADIONUCLIDES - DISSOLVED									
Gross Alpha	42.6	pCi/L					1	E900.0	02/07/09 01:11/eli-c
Gross Alpha precision (±)	6.0	pCi/L					1	E900.0	02/07/09 01:11/eli-c
Gross Alpha MDC	5.4	pCi/L					1	E900.0	02/07/09 01:11/eli-c
Gross Beta	14.2	pCi/L					1	E900.0	02/07/09 01:11/eli-c
Gross Beta precision (±)	4.2	pCi/L					1	E900.0	02/07/09 01:11/eli-c
Gross Beta MDC	6.6	pCi/L					1	E900.0	02/07/09 01:11/eli-c
Lead 210	1.0	pCi/L	U				1	E909.0M	02/03/09 10:43/eli-c
Lead 210 precision (±)	2.5	pCi/L					1	E909.0M	02/03/09 10:43/eli-c
Lead 210 MDC	4.2	pCi/L					1	E909.0M	02/03/09 10:43/eli-c
Polonium 210	-0.015	pCi/L	U				1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 MDC	0.53	pCi/L					1	RMO-3008	02/13/09 14:35/eli-c
Polonium 210 precision (±)	0.19	pCi/L					1	RMO-3008	02/13/09 14:35/eli-c
Radium 226	0.4	pCi/L					1	E903.0	02/05/09 14:35/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	02/05/09 14:35/eli-c
Thorium 230	0.1	pCi/L	U	0.2			1	E907.0	02/08/09 11:55/eli-c
Thorium 230 precision (±)	0.09	pCi/L					1	E907.0	02/08/09 11:55/eli-c
Gross Gamma	1100	pCi/L					1	E901.1	02/04/09 14:00/eli-c
Gross Gamma precision (±)	190	pCi/L					1	E901.1	02/04/09 14:00/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - SUSPENDED									
Lead 210	1.1	pCi/L	U				1	E909.0M	03/10/09 13:35/eli-c
Lead 210 precision (±)	4.8	pCi/L					1	E909.0M	03/10/09 13:35/eli-c
Lead 210 MDC	8.0	pCi/L					1	E909.0M	03/10/09 13:35/eli-c
Polonium 210	0.047	pCi/L	U				1	RMO-3008	02/19/09 12:18/eli-c
Polonium 210 precision (±)	0.27	pCi/L					1	RMO-3008	02/19/09 12:18/eli-c
Polonium 210 MDC	0.58	pCi/L					1	RMO-3008	02/19/09 12:18/eli-c
Radium 226	-0.4	pCi/L	U				1	E903.0	02/18/09 15:51/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	02/18/09 15:51/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09010302-001
 Client Sample ID: GW703

Report Date: 03/17/09
 Collection Date: 01/20/09 15:05
 Date Received: 01/21/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.5	pCi/L					1 E903.0	02/18/09 15:51/eli-ca
Thorium 230	-0.2	pCi/L	U	0.2			1 E907.0	03/01/09 14:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1 E907.0	03/01/09 14:58/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	153	pCi/L		100			1 D5072-92	01/23/09 14:10/eli-c
Radon 222 precision (±)	57.7	pCi/L					1 D5072-92	01/23/09 14:10/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003			1 E200.8	02/04/09 21:00/eli-c
Arsenic	ND	mg/L		0.001			1 E200.8	02/04/09 21:00/eli-c
Barium	ND	mg/L		0.1			1 E200.8	02/04/09 21:00/eli-c
Beryllium	ND	mg/L		0.001			1 E200.8	02/04/09 21:00/eli-c
Boron	0.4	mg/L		0.1			2 E200.7	02/05/09 20:11/eli-c
Cadmium	ND	mg/L		0.005			1 E200.8	02/04/09 21:00/eli-c
Chromium	ND	mg/L		0.05			1 E200.8	02/04/09 21:00/eli-c
Copper	ND	mg/L		0.01			1 E200.8	02/04/09 21:00/eli-c
Iron	0.68	mg/L	D	0.04			2 E200.7	02/05/09 20:11/eli-c
Lead	0.007	mg/L		0.001			1 E200.8	02/04/09 21:00/eli-c
Manganese	ND	mg/L		0.01			1 E200.8	02/04/09 21:00/eli-c
Mercury	ND	mg/L	H	0.001			1 E245.1	02/20/09 14:04/eli-b
Molybdenum	ND	mg/L		0.1			1 E200.8	02/04/09 21:00/eli-c
Nickel	ND	mg/L		0.05			1 E200.8	02/11/09 22:14/eli-c
Selenium	ND	mg/L		0.001			1 E200.8	02/04/09 21:00/eli-c
Silver	ND	mg/L		0.005			1 E200.8	02/04/09 21:00/eli-c
Strontium	2.2	mg/L		0.1			1 E200.8	02/04/09 21:00/eli-c
Thallium	ND	mg/L		0.001			1 E200.8	02/04/09 21:00/eli-c
Uranium	ND	mg/L		0.0003			1 E200.8	02/04/09 21:00/eli-c
Zinc	ND	mg/L		0.01			1 E200.8	02/04/09 21:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.35	%					1 A1030 E	03/16/09 00:00/kl
Anions	20.7	meq/L					1 A1030 E	03/16/09 00:00/kl
Cations	20.1	meq/L					1 A1030 E	03/16/09 00:00/kl
Solids, Total Dissolved Calculated	1400	mg/L					1 A1030 E	03/16/09 00:00/kl
TDS Balance (0.80 - 1.20)	1.01						1 A1030 E	03/16/09 00:00/kl

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 3 of 3
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 H - Analysis performed past recommended holding time. U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 03/17/09

Project: Edgemont

Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 090126A-ALK-SEL-W		
Sample ID: LCS1_090126A Alkalinity, Total as CaCO3	Laboratory Control Sample 960	mg/L	5.0	96	90	110			01/26/09 12:59
Sample ID: MBLK1_090126A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						01/26/09 13:00
Sample ID: R09010301-014AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 296	mg/L	5.0	83	80	120			01/26/09 14:51
Sample ID: R09010301-014AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 296	mg/L	5.0	83	80	120	0	10	01/26/09 14:53
Method: A2510 B							Batch: 090122_1_COND-PROBE-W		
Sample ID: LCS_COND-1_090122 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			01/22/09 14:38
Sample ID: LCS1-1_090122 Conductivity @ 25 C	Laboratory Control Sample 149	umhos/cm	5.0	99	90	110			01/22/09 14:39
Sample ID: LCS2-1_090122 Conductivity @ 25 C	Laboratory Control Sample 5000	umhos/cm	5.0	100	90	110			01/22/09 14:40
Sample ID: MBLK-1_090122 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						01/22/09 14:40
Sample ID: R09010302-001ADUP Conductivity @ 25 C	Sample Duplicate 2420	umhos/cm	5.0				0	10	01/22/09 15:12
Method: A2540 C							Batch: 090126A-SLDS-TDS-W		
Sample ID: LCS1_090126A Solids, Total Dissolved TDS @ 180 C	Laboratory Control Sample 220	mg/L	5.0	108	90	110			01/26/09 08:55
Sample ID: MBLK1_090126A Solids, Total Dissolved TDS @ 180 C	Method Blank ND	mg/L	5						01/26/09 08:57
Sample ID: R09010301-012AMS Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike 1000	mg/L	5.0	108	80	120			01/26/09 09:23
Sample ID: R09010301-012AMSD Solids, Total Dissolved TDS @ 180 C	Sample Matrix Spike Duplicate 1000	mg/L	5.0	101	80	120	1.4	10	01/26/09 09:24

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 090127-ORP-ISE-W		
Sample ID: LCS Oxidation-Reduction Potential	Laboratory Control Sample 480	mg/L mV		100	95	105			01/27/09 11:00
Sample ID: R09010302-001F Oxidation-Reduction Potential	Sample Duplicate 84	mg/L mV					4.3	10	01/27/09 11:00
Method: A3114 B							Batch: C_SE3114-090224D-IV		
Sample ID: MBLK Selenium-IV	Method Blank ND	mg/L	0.0003						02/24/09 15:59
Sample ID: As/Se 1.0ppm-Q 02090 Selenium-IV	Laboratory Control Sample 0.054	mg/L	0.0010	108	90	110			02/24/09 16:01
Sample ID: C09010797-010EMS Selenium-IV	Sample Matrix Spike 0.049	mg/L	0.0010	99	85	115			02/24/09 16:38
Sample ID: C09010797-010EMSD Selenium-IV	Sample Matrix Spike Duplicate 0.047	mg/L	0.0010	94	85	115	4.8	10	02/24/09 16:40
Method: A3114 B							Batch: C_SE3114-090225A		
Sample ID: MBLK Selenium	Method Blank ND	mg/L	0.0003						02/25/09 10:00
Sample ID: As/Se 1.0ppm-Q 02090 Selenium	Laboratory Control Sample 0.052	mg/L	0.0010	103	90	110			02/25/09 10:03
Sample ID: C09010797-010EMS Selenium	Sample Matrix Spike 0.047	mg/L	0.0010	94	85	115			02/25/09 10:39
Sample ID: C09010797-010EMSD Selenium	Sample Matrix Spike Duplicate 0.048	mg/L	0.0010	97	85	115	3	15	02/25/09 10:41
Method: A4500-H B							Batch: 090122_1_PH-W		
Sample ID: LCS_pH-1_090122 pH	Laboratory Control Sample 6.88	s.u.	0.010	100	98.55	101.45			01/22/09 09:53
Sample ID: R09010302-001ADUP pH	Sample Duplicate 11.4	s.u.	0.010				0	1.25	01/22/09 10:23

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2009-01-21_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						
						Run: TECHAA2-R_090121A			01/21/09 15:03
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.24	mg/L	0.10	96	90	110			01/21/09 15:05
						Run: TECHAA2-R_090121A			01/21/09 15:06
Sample ID: LFB-4 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.26	mg/L	0.10	103	90	110			01/21/09 15:06
						Run: TECHAA2-R_090121A			01/21/09 17:29
Sample ID: R09010301-013BMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.63	mg/L	0.10	99	80	120			01/21/09 17:29
						Run: TECHAA2-R_090121A			01/21/09 17:30
Sample ID: R09010301-013BMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.65	mg/L	0.10	108	80	120	3.3	10	01/21/09 17:30
Method: D5072-92							Batch: C_R113850		
Sample ID: R09010302-001G Radon 222	Sample Duplicate 133	pCi/L	100				14	30	01/23/09 14:10
						Run: SUB-C113850			01/23/09 14:10
Sample ID: MB-R113850 Radon 222	Method Blank 30	pCi/L							U
						Run: SUB-C113850			01/23/09 14:10
Sample ID: LCS-R113850 Radon 222	Laboratory Control Sample 307	pCi/L	100	90	70	130			01/23/09 14:10

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R114100		
Sample ID: LRB	Method Blank		Run: SUB-C114100			01/30/09 15:45			
Boron	ND	mg/L	0.006						
Iron	0.005	mg/L	0.0004						
Silicon	ND	mg/L	0.003						
Calcium	ND	mg/L	0.02						
Magnesium	ND	mg/L	0.01						
Potassium	ND	mg/L	0.005						
Sodium	-0.05	mg/L							
Silica	ND	mg/L	0.005						
Sample ID: C09010853-001BMS	Sample Matrix Spike		Run: SUB-C114100			01/30/09 22:19			
Boron	1.08	mg/L	0.10	104	70	130			
Iron	1.06	mg/L	0.030	102	70	130			
Silicon	7.13	mg/L	0.10		70	130			A
Calcium	332	mg/L	1.0	103	70	130			
Magnesium	149	mg/L	1.0	104	70	130			
Potassium	128	mg/L	1.0	112	70	130			
Sodium	165	mg/L	1.0	103	70	130			
Silica	15.3	mg/L	0.21		70	130			A
Sample ID: C09010853-001BMSD	Sample Matrix Spike Duplicate		Run: SUB-C114100			01/30/09 22:23			
Boron	1.08	mg/L	0.10	104	70	130	0.5	20	
Iron	1.06	mg/L	0.030	103	70	130	0.2	20	
Silicon	7.28	mg/L	0.10		70	130	2	20	A
Calcium	337	mg/L	1.0	108	70	130	1.5	20	
Magnesium	149	mg/L	1.0	104	70	130	0.3	20	
Potassium	128	mg/L	1.0	112	70	130	0.3	20	
Sodium	166	mg/L	1.0	104	70	130	0.6	20	
Silica	15.6	mg/L	0.21		70	130	2	20	A
Method: E200.7							Batch: C_R114362		
Sample ID: LRB	Method Blank		Run: SUB-C114362			02/05/09 12:03			
Boron	0.007	mg/L	0.006						
Iron	0.006	mg/L	0.0004						
Sample ID: R09010302-001D	Sample Matrix Spike		Run: SUB-C114362			02/05/09 20:15			
Boron	1.44	mg/L	0.10	106	70	130			
Iron	1.74	mg/L	0.043	104	70	130			
Sample ID: R09010302-001D	Sample Matrix Spike Duplicate		Run: SUB-C114362			02/05/09 20:20			
Boron	1.49	mg/L	0.10	110	70	130	3	20	
Iron	1.77	mg/L	0.043	107	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R115011		
Sample ID: MB-090220A	Method Blank					Run: SUB-C115011			02/20/09 12:54
Aluminum	ND	mg/L	0.003						
Sample ID: LFB-090220A	Laboratory Fortified Blank					Run: SUB-C115011			02/20/09 12:58
Aluminum	0.95	mg/L	0.10	95	85	125			
Sample ID: C09010797-014CMS2	Sample Matrix Spike					Run: SUB-C115011			02/20/09 13:10
Aluminum	1.92	mg/L	0.10	94	70	130			
Sample ID: C09010797-014CMSD2	Sample Matrix Spike Duplicate					Run: SUB-C115011			02/20/09 13:14
Aluminum	1.92	mg/L	0.10	94	70	130	0.4	20	
Method: E200.8							Batch: C_21459		
Sample ID: MB-21459	Method Blank					Run: SUB-C114869			02/18/09 23:47
Uranium	ND	mg/L	7E-05						
Sample ID: LCS1-21459	Laboratory Control Sample					Run: SUB-C114869			02/18/09 23:51
Uranium	0.105	mg/L	0.00030	105	80	120			
Sample ID: R09010302-0011	Post Digestion Spike					Run: SUB-C114869			02/19/09 01:49
Uranium	0.0128	mg/L	0.00030	102	70	130			
Sample ID: R09010302-0011	Post Digestion Spike Duplicate					Run: SUB-C114869			02/19/09 01:53
Uranium	0.0127	mg/L	0.00030	101	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R114097		
Sample ID: LRB	Method Blank		Run: SUB-C114097			01/30/09 16:42			
Arsenic	ND	mg/L	0.0003						
Barium	0.0001	mg/L	3E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	9E-05	mg/L	4E-05						
Lead	5E-05	mg/L	2E-05						
Manganese	0.0001	mg/L	5E-05						
Mercury	ND	mg/L	4E-05						
Molybdenum	5E-05	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Silver	6E-05	mg/L	2E-05						
Thorium 232	0.0001	mg/L	3E-05						
Uranium	0.0001	mg/L	8E-06						
Vanadium	0.0001	mg/L	9E-05						
Zinc	0.0004	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C114097			01/30/09 16:49			
Arsenic	0.0517	mg/L	0.0010	103	85	115			
Barium	0.0514	mg/L	0.0010	103	85	115			
Cadmium	0.0521	mg/L	0.0010	104	85	115			
Chromium	0.0495	mg/L	0.0010	99	85	115			
Copper	0.0521	mg/L	0.0010	104	85	115			
Lead	0.0525	mg/L	0.0010	105	85	115			
Manganese	0.0500	mg/L	0.0010	100	85	115			
Mercury	0.00528	mg/L	0.0010	106	85	115			
Molybdenum	0.0523	mg/L	0.0010	104	85	115			
Nickel	0.0524	mg/L	0.0010	105	85	115			
Silver	0.0212	mg/L	0.0010	106	85	115			
Thorium 232	0.0515	mg/L	0.0010	103	85	115			
Uranium	0.0514	mg/L	0.00030	103	85	115			
Vanadium	0.0489	mg/L	0.0010	98	85	115			
Zinc	0.0557	mg/L	0.0010	111	85	115			
Sample ID: C09010797-014DMS4	Post Digestion Spike		Run: SUB-C114097			01/30/09 21:53			
Barium	0.0636	mg/L	0.10	108	70	130			
Cadmium	0.0521	mg/L	0.010	104	70	130			
Chromium	0.0515	mg/L	0.050	103	70	130			
Copper	0.0497	mg/L	0.010	98	70	130			
Lead	0.0522	mg/L	0.050	104	70	130			
Manganese	0.213	mg/L	0.010	117	70	130			
Nickel	0.0504	mg/L	0.050	98	70	130			
Silver	0.0191	mg/L	0.010	96	70	130			
Thorium 232	0.0573	mg/L	0.0010	115	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R114097		
Sample ID: C09010797-014DMS4	Post Digestion Spike				Run: SUB-C114097		01/30/09 21:53		
Uranium	0.0581	mg/L	0.00030	115	70	130			
Vanadium	0.0522	mg/L	0.10	104	70	130			
Zinc	0.0548	mg/L	0.010	102	70	130			
Sample ID: C09010797-014DMSD4	Post Digestion Spike Duplicate				Run: SUB-C114097		01/30/09 22:00		
Barium	0.0631	mg/L	0.10	107	70	130		20	
Cadmium	0.0516	mg/L	0.010	103	70	130	0.9	20	
Chromium	0.0523	mg/L	0.050	104	70	130	1.5	20	
Copper	0.0493	mg/L	0.010	97	70	130	0.8	20	
Lead	0.0534	mg/L	0.050	107	70	130	2.3	20	
Manganese	0.218	mg/L	0.010	128	70	130	2.6	20	
Nickel	0.0500	mg/L	0.050	97	70	130		20	
Silver	0.0200	mg/L	0.010	100	70	130	4.3	20	
Thorium 232	0.0585	mg/L	0.0010	117	70	130	2.1	20	
Uranium	0.0591	mg/L	0.00030	117	70	130	1.7	20	
Vanadium	0.0532	mg/L	0.10	106	70	130		20	
Zinc	0.0545	mg/L	0.010	101	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R114332		
Sample ID: LRB	Method Blank		Run: SUB-C114332				02/04/09 12:58		
Antimony	0.0001	mg/L	0.0001						
Arsenic	ND	mg/L	0.0003						
Barium	ND	mg/L	3E-05						
Beryllium	ND	mg/L	6E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	ND	mg/L	4E-05						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	4E-05						
Selenium	ND	mg/L	0.001						
Silver	ND	mg/L	2E-05						
Strontium	ND	mg/L	2E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Zinc	ND	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C114332				02/04/09 13:05		
Antimony	0.0506	mg/L	0.0010	101	85	115			
Arsenic	0.0508	mg/L	0.0010	102	85	115			
Barium	0.0509	mg/L	0.0010	102	85	115			
Beryllium	0.0522	mg/L	0.0010	104	85	115			
Cadmium	0.0511	mg/L	0.0010	102	85	115			
Chromium	0.0520	mg/L	0.0010	104	85	115			
Copper	0.0513	mg/L	0.0010	103	85	115			
Lead	0.0521	mg/L	0.0010	104	85	115			
Manganese	0.0517	mg/L	0.0010	103	85	115			
Molybdenum	0.0512	mg/L	0.0010	102	85	115			
Selenium	0.0509	mg/L	0.0014	102	85	115			
Silver	0.0211	mg/L	0.0010	106	85	115			
Strontium	0.0504	mg/L	0.0010	101	85	115			
Thallium	0.0520	mg/L	0.0010	104	85	115			
Uranium	0.0519	mg/L	0.00030	104	85	115			
Zinc	0.0542	mg/L	0.0010	108	85	115			
Sample ID: C09010797-014DMS4	Post Digestion Spike		Run: SUB-C114332				02/04/09 20:46		
Antimony	0.0549	mg/L	0.050	110	70	130			
Arsenic	0.0543	mg/L	0.0010	105	70	130			
Barium	0.0583	mg/L	0.10	99	70	130			
Beryllium	0.0509	mg/L	0.010	102	70	130			
Cadmium	0.0498	mg/L	0.010	100	70	130			
Chromium	0.0493	mg/L	0.050	99	70	130			
Copper	0.0499	mg/L	0.010	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R114332		
Sample ID: C09010797-014DMS4	Post Digestion Spike		Run: SUB-C114332			02/04/09 20:46			
Lead	0.0503	mg/L	0.050	101	70	130			
Manganese	0.194	mg/L	0.010	95	70	130			
Molybdenum	0.0531	mg/L	0.050	105	70	130			
Selenium	0.0509	mg/L	0.0010	102	70	130			
Silver	0.0182	mg/L	0.010	91	70	130			
Strontium	2.74	mg/L	0.10		70	130			A
Thallium	0.0505	mg/L	0.10	101	70	130			
Uranium	0.0536	mg/L	0.00030	106	70	130			
Zinc	0.0553	mg/L	0.010	104	70	130			
Sample ID: C09010797-014DMS4	Post Digestion Spike Duplicate		Run: SUB-C114332			02/04/09 20:53			
Antimony	0.0559	mg/L	0.050	112	70	130	1.7	20	
Arsenic	0.0551	mg/L	0.0010	107	70	130	1.5	20	
Barium	0.0592	mg/L	0.10	101	70	130		20	
Beryllium	0.0498	mg/L	0.010	100	70	130	2.1	20	
Cadmium	0.0511	mg/L	0.010	102	70	130	2.6	20	
Chromium	0.0488	mg/L	0.050	98	70	130		20	
Copper	0.0493	mg/L	0.010	99	70	130	1.2	20	
Lead	0.0514	mg/L	0.050	103	70	130	2.1	20	
Manganese	0.191	mg/L	0.010	89	70	130	1.5	20	
Molybdenum	0.0544	mg/L	0.050	107	70	130	2.5	20	
Selenium	0.0524	mg/L	0.0010	105	70	130	3	20	
Silver	0.0189	mg/L	0.010	94	70	130	3.6	20	
Strontium	2.75	mg/L	0.10		70	130	0.3	20	A
Thallium	0.0520	mg/L	0.10	104	70	130		20	
Uranium	0.0541	mg/L	0.00030	107	70	130	0.9	20	
Zinc	0.0546	mg/L	0.010	103	70	130	1.2	20	
Method: E200.8							Batch: C_R114631		
Sample ID: LRB	Method Blank		Run: SUB-C114631			02/11/09 12:44			
Nickel	ND	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C114631			02/11/09 12:50			
Nickel	0.0454	mg/L	0.0010	91	85	115			
Sample ID: C09020274-004AMS4	Post Digestion Spike		Run: SUB-C114631			02/11/09 23:26			
Nickel	0.0485	mg/L	0.040	93	70	130			
Sample ID: C09020274-004AMS4	Post Digestion Spike Duplicate		Run: SUB-C114631			02/11/09 23:33			
Nickel	0.0485	mg/L	0.040	93	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_37342		
Sample ID: MB-37342	Method Blank					Run: SUB-B125166		02/20/09 13:51	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-37342	Laboratory Fortified Blank					Run: SUB-B125166		02/20/09 13:53	
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B09021443-001AMS	Sample Matrix Spike					Run: SUB-B125166		02/20/09 14:00	
Mercury	0.0018	mg/L	0.00020	90	70	130			
Sample ID: B09021443-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-B125166		02/20/09 14:02	
Mercury	0.0018	mg/L	0.00020	89	70	130	1.1	30	
Method: E245.1							Analytical Run: SUB-B125166		
Sample ID: QCS	Initial Calibration Verification Standard							02/20/09 13:43	
Mercury	0.0020	mg/L	0.00020	98	95	105			
Method: E300.0							Batch: R39252		
Sample ID: LFB0901211057-3	Laboratory Fortified Blank					Run: DIONEX_090121A		01/21/09 19:10	
Chloride	4.61	mg/L	0.50	92	90	110			
Fluoride	1.92	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0901211057-4	Laboratory Fortified Blank					Run: DIONEX_090121A		01/21/09 19:27	
Chloride	4.52	mg/L	0.50	90	90	110			
Fluoride	1.90	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.25	mg/L	0.10	90	90	110			
Nitrogen, Nitrite as N	2.37	mg/L	0.10	95	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: R09010301-014AMS	Sample Matrix Spike					Run: DIONEX_090121A		01/22/09 09:08	
Chloride	248	mg/L	5.4	90	80	120			
Fluoride	102	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Nitrogen, Nitrite as N	123	mg/L	2.9	98	80	120			
Sulfate	1130	mg/L	3.4	84	80	120			
Sample ID: R09010301-014AMSD	Sample Matrix Spike Duplicate					Run: DIONEX_090121A		01/22/09 09:24	
Chloride	239	mg/L	5.4	86	80	120	3.6	10	
Fluoride	98.7	mg/L	0.56	97	80	120	3.7	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	3.5	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	3.3	10	
Sulfate	1120	mg/L	3.4	82	80	120	1.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0604		
Sample ID: MB-GrAB-0604	Method Blank				Run: SUB-C114642				02/06/09 03:23
Gross Alpha	1	pCi/L							
Gross Alpha precision (±)	0.6	pCi/L							
Gross Alpha MDC	0.5	pCi/L							
Gross Beta	-2	pCi/L							U
Gross Beta precision (±)	1	pCi/L							
Gross Beta MDC	1	pCi/L							
Sample ID: UNAT-GrAB-0604	Laboratory Control Sample				Run: SUB-C114642				02/06/09 03:24
Gross Alpha	130	pCi/L	97	70	130				
Sample ID: Cs137-GrAB-0604	Laboratory Control Sample				Run: SUB-C114642				02/06/09 03:24
Gross Beta	84	pCi/L	92	70	130				
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114642				02/06/09 03:24
Gross Alpha	120	pCi/L	85	70	130				
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114642				02/06/09 03:23
Gross Alpha	120	pCi/L	88	70	130	3.6	15.7		
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114642				02/06/09 03:23
Gross Beta	79	pCi/L	87	70	130				
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114642				02/06/09 03:23
Gross Beta	82	pCi/L	89	70	130	3	16.4		
Sample ID: R09010302-001H	Sample Duplicate				Run: SUB-C114642				02/07/09 01:11
Gross Alpha	30	pCi/L					33	40.7	
Gross Alpha precision (±)	5.3	pCi/L							
Gross Alpha MDC	5.3	pCi/L							
Gross Beta	12	pCi/L					18	73.5	
Gross Beta precision (±)	4.1	pCi/L							
Gross Beta MDC	6.5	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R114484		
Sample ID: C09010797-014HDUP	Sample Duplicate				Run: SUB-C114484		02/04/09 14:00		
Gross Gamma	980	pCi/L					2.9	30	
Gross Gamma precision (±)	160	pCi/L							
Sample ID: MB-R114484	Method Blank				Run: SUB-C114484		02/04/09 14:00		
Gross Gamma	ND	pCi/L							U
Sample ID: LCS-R114484	Laboratory Control Sample				Run: SUB-C114484		02/04/09 14:00		
Americium 241	25000	pCi/L	20	84	70	130			
Cesium 137	45000	pCi/L	20	106	70	130			
Cobalt 60	30000	pCi/L	20	103	70	130			
Method: E903.0							Batch: C_21459		
Sample ID: C09010797-007IMS	Sample Matrix Spike				Run: SUB-C114901		02/18/09 13:41		
Radium 226	19	pCi/L		98	70	130			
Sample ID: C09010797-007IMSD	Sample Matrix Spike Duplicate				Run: SUB-C114901		02/18/09 13:41		
Radium 226	19	pCi/L		97	70	130	1	24	
Sample ID: LCS-21459	Laboratory Control Sample				Run: SUB-C114901		02/18/09 15:51		
Radium 226	74	pCi/L		102	70	130			
Sample ID: MB-21459	Method Blank				Run: SUB-C114901		02/18/09 15:51		
Radium 226	-0.02	pCi/L							U
Radium 226 precision (±)	0.2	pCi/L							
Radium 226 MDC	0.4	pCi/L							
Method: E903.0							Batch: C_RA226-3432		
Sample ID: C09010797-001HMS	Sample Matrix Spike				Run: SUB-C114417		02/05/09 12:53		
Radium 226	16	pCi/L		105	70	130			
Sample ID: C09010797-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C114417		02/05/09 12:53		
Radium 226	15	pCi/L		96	70	130	8	25.6	
Sample ID: MB-RA226-3432	Method Blank				Run: SUB-C114417		02/05/09 14:35		
Radium 226	-0.1	pCi/L							U
Radium 226 precision (±)	0.1	pCi/L							
Radium 226 MDC	0.3	pCi/L							
Sample ID: LCS-RA226-3432	Laboratory Control Sample				Run: SUB-C114417		02/05/09 14:35		
Radium 226	8.6	pCi/L		111	70	130			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 03/17/09
Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_21459		
Sample ID: R09010302-001I	Sample Matrix Spike				Run: SUB-C115509				03/01/09 14:58
Thorium 230	15	pCi/L		134	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: R09010302-001I	Sample Matrix Spike Duplicate				Run: SUB-C115509				03/01/09 14:58
Thorium 230	12	pCi/L		107	70	130	20	53	
Sample ID: LCS-21459	Laboratory Control Sample				Run: SUB-C115509				03/02/09 09:04
Thorium 230	5.2	pCi/L		113	70	130			
Sample ID: MB-21459	Method Blank				Run: SUB-C115509				03/02/09 09:04
Thorium 230	-0.07	pCi/L							U
Method: E907.0							Batch: C_RA-TH-ISO-0742		
Sample ID: LCS-RA-TH-ISO-0742	Laboratory Control Sample				Run: SUB-C114515				02/08/09 11:55
Thorium 230	5.1	pCi/L	0.20	104	70	130			
Sample ID: R09010302-001H	Sample Matrix Spike				Run: SUB-C114515				02/08/09 11:55
Thorium 230	25	pCi/L	0.20	103	70	130			
Sample ID: R09010302-001H	Sample Matrix Spike Duplicate				Run: SUB-C114515				02/08/09 11:55
Thorium 230	27	pCi/L	0.20	113	70	130	7.9	43	
Sample ID: MB-RA-TH-ISO-0742	Method Blank				Run: SUB-C114515				02/09/09 08:45
Thorium 230	0.01	pCi/L							U
Method: E909.0M							Batch: C_R114833		
Sample ID: C09010853-001DMS	Sample Matrix Spike				Run: SUB-C114833				02/03/09 10:43
Lead 210	94	pCi/L		78	70	130			
Sample ID: C09010853-002DMD	Sample Duplicate				Run: SUB-C114833				02/03/09 10:43
Lead 210	0.50	pCi/L					700	30	UR
Lead 210 precision (±)	5.1	pCi/L							
Lead 210 MDC	8.5	pCi/L							
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R114833	Method Blank				Run: SUB-C114833				02/03/09 10:43
Lead 210	-0.7	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	4	pCi/L							
Sample ID: LCS-R114833	Laboratory Control Sample				Run: SUB-C114833				02/03/09 10:43
Lead 210	50	pCi/L		88	70	130			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 03/17/09
 Work Order: R09010302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_R115907		
Sample ID: MB-R115907	Method Blank								
Lead 210	-1	pCi/L							U
Lead 210 precision (±)	4	pCi/L							
Lead 210 MDC	7	pCi/L							
Sample ID: LCS-R115907	Laboratory Control Sample								
Lead 210	65	pCi/L	97	70	130				03/10/09 13:35
- No MS or MSD available due to spiking error by analyst..									
Method: RMO-3008							Batch: C_PO210-0181		
Sample ID: R09010302-001K	Sample Matrix Spike								
Polonium 210	13	pCi/L	79	70	130				02/13/09 14:35
Sample ID: R09010302-001K	Sample Matrix Spike Duplicate								
Polonium 210	17	pCi/L	103	70	130	26	58.3		02/17/09 10:36
Sample ID: LCS-PO210-0181	Laboratory Control Sample								
Polonium 210	14	pCi/L	83	70	130				02/17/09 10:36
Sample ID: MB-PO210-0181	Method Blank								
Polonium 210 MDC	0.7	pCi/L							
Polonium 210	-0.04	pCi/L							U
Polonium 210 precision (±)	0.2	pCi/L							
Method: RMO-3008							Batch: C_R115005		
Sample ID: C09020173-003FMS	Sample Matrix Spike								
Polonium 210	21	pCi/L	74	70	130				02/19/09 12:18
Sample ID: C09020173-003FMSD	Sample Matrix Spike Duplicate								
Polonium 210	32	pCi/L	113	70	130	39	53.2		02/19/09 12:18
Sample ID: LCS-21458	Laboratory Control Sample								
Polonium 210	87	pCi/L	111	70	130				02/19/09 09:56
Sample ID: MB-21458	Method Blank								
Polonium 210 MDC	2	pCi/L							
Polonium 210	0.2	pCi/L							U
Polonium 210 precision (±)	1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

Sample R09010302-001A not reported to LIMS

SAMPLE ID: **R09010302-001A**

3/16/2009

	CATIONS			ANIONS	
	mg/L	meq/L		mg/L	meq/L
Acidity(as CaCO3)			Cl	16	0.45
Ca	73	3.62	SO4	828	17.23
Mg	<1	0.01	T. Alkalinity	148	2.96
K	9	0.24	HCO3	181	
Na	370	16.11	CO3	<1	
Al	<1	0.01			
Fe	<1	0.00			
Mn	<1	0.00			
Hardness (as CaCO3)	182		OH		
Hardness, grains/gal.	10.6		NO3	<0.1	0.00
NH4+	1.6	0.11	PO4		
Si	4.2		F	0.3	0.02
			CN		
			Br	0.3	0.00
	Total Cations	20.11	Total Anions	20.66	

BALANCE, (± 5%) -1.35
BALANCE, "sigma" 1.29

	Measured	Calculated
Sample pH	11.4	
Conductivity (umho/cm)	2420	1770
TDS	1410	1400
TDS Ratio		1.01
Resistivity (RW - ohm-m)		4.13
Estimated Ionic Strength (from TDS)		0.0354

Salinity	1.25
Cl as NaCl	26
Carbonate Hardness	148
Non-carbonate Hardness	34
Free CO2	
Total CO2	
SAR	11.94
Langlier Saturation Index	2.5
Ryznar Index	6.34
Aggressive Index	15.83
Temp	20

Moderately hard water.

SAMPLE ID: R09010302-001A

BALANCE, (± 5%) -1.35



Chain of Custody and Analytical Request Record

PLEASE PRINT. Provide as much information as possible.

Company Name: Scott Env. Project Name, PWS, Permit, Etc.: Pur Backst / Power Tech
 Report Mail Address: RESREC Contact Name: Phone/Fax:
 Invoice Address: Invoice Contact & Phone: Purchase Order:

EPA/State Compliance: Yes No
 Sampler: (Please Print)
 Quote/Bottle Order:

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

DW A2LA
 GSA EDD/EDT (Electronic Data)
 POTW/WWTP Format:
 State: LEVEL IV
 Other: NELAC

SAMPLE IDENTIFICATION (Name, Location, interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED		Comments:	Shipped by:
				SEE ATTACHED	Normal Turnaround (TAT)		
1 GW 680	1-20-09	15:25	Water				
2 GW 68A	1-20-09	15:35	"				
3 991015 well	1-20-09	15:05	"				
4 GW 696	1-20-09	16:55	"				
5 GW 694	1-20-09	17:00	"				
6							
7							
8							
9							
10							

Received by (print): Date/Time: 1-21-09 10:37
 Received by (print): Date/Time:
 Received by (print): Date/Time:

Signature: Date/Time:
 Signature: Date/Time:
 Signature: Date/Time:

Sample Disposal: Return to Client: Lab Disposal:
 Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

LABORATORY USE ONLY

GW703

as per quote

RUSH

Signature: Steve Hoiland 1-21-09 10:37



ANALYTICAL SUMMARY REPORT

April 14, 2009

Cory Foreman
 RESPEC Inc
 3824 Jet Dr
 Rapid City, SD 57701-

Workorder No.: R09020293 Quote ID: R286
 Project Name: Edgemont

Energy Laboratories Inc. received the following 15 samples for RESPEC Inc on 2/25/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R09020293-001	DewBurd BLK01	02/24/09 18:00	02/25/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved



ANALYTICAL SUMMARY REPORT

R09020293-002	DewBurd GW704	02/24/09 9:40	02/25/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R09020293-003	DewBurd GW3026	02/24/09 11:35	02/25/09	Aqueous	Same As Above
R09020293-004	DewBurd GW698	02/24/09 12:10	02/25/09	Aqueous	Same As Above
R09020293-005	DewBurd GW698	02/24/09 12:15	02/25/09	Aqueous	Same As Above
R09020293-006	DewBurd GW688	02/24/09 13:23	02/25/09	Aqueous	Same As Above
R09020293-007	DewBurd GW680	02/24/09 13:35	02/25/09	Aqueous	Same As Above
R09020293-008	DewBurd GW622	02/24/09 15:31	02/25/09	Aqueous	Same As Above
R09020293-009	DewBurd GW615	02/24/09 15:45	02/25/09	Aqueous	Same As Above
R09020293-010	DewBurd GW689	02/24/09 16:04	02/25/09	Aqueous	Same As Above
R09020293-011	DewBurd GW681	02/24/09 16:18	02/25/09	Aqueous	Same As Above
R09020293-012	DewBurd GW697	02/24/09 16:45	02/25/09	Aqueous	Same As Above
R09020293-013	DewBurd GW695	02/24/09 16:56	02/25/09	Aqueous	Same As Above
R09020293-014	DewBurd GW694	02/24/09 17:15	02/25/09	Aqueous	Same As Above
R09020293-015	DewBurd GW696	02/24/09 17:31	02/25/09	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____

Linda Larson



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-001
Client Sample ID: DewBurd BLK01

Report Date: 04/14/09
Collection Date: 02/24/09 18:00
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	03/03/09 14:18/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:18/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	03/03/09 14:18/mb
Calcium	ND	mg/L	D	1		1	E200.7	03/06/09 21:14/eli-c
Chloride	ND	mg/L		1		1	E300.0	02/25/09 23:17/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	02/25/09 23:17/jmh
Magnesium	ND	mg/L		0.5		1	E200.7	03/06/09 21:14/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 16:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/25/09 23:17/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/25/09 23:17/jmh
Potassium	ND	mg/L		0.5		1	E200.7	03/06/09 21:14/eli-c
Sodium	ND	mg/L		0.5		1	E200.7	03/06/09 21:14/eli-c
Sulfate	ND	mg/L		1		1	E300.0	02/25/09 23:17/jmh
Silica	ND	mg/L		0.2		1	E200.7	03/06/09 21:14/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	02/27/09 12:41/tb
Oxidation-Reduction Potential	240	mV				1	A2580 B	03/02/09 11:00/jmh
pH	5.58	s.u.		0.01		1	A4500-H B	02/27/09 10:47/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	10	mg/L		5		1	A2540 C	03/02/09 09:56/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 19:38/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 19:38/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 19:38/eli-c
Boron	ND	mg/L		0.1		1	E200.7	03/06/09 21:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 19:38/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 19:38/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 19:38/eli-c
Iron	ND	mg/L		0.03		1	E200.7	03/06/09 21:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 19:38/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	03/04/09 19:38/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 19:38/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 19:38/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 19:38/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 19:38/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 19:38/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/04/09 19:38/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-001
 Client Sample ID: DewBurd BLK01

Report Date: 04/14/09
 Collection Date: 02/24/09 18:00
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1 E200.8	03/04/09 19:38/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	03/04/09 19:38/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	03/10/09 02:55/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	03/06/09 13:45/eli-ca
Selenium-VI	ND	mg/L		0.001		1 A3114 B	03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED							
Gross Alpha	0.6	pCi/L	U			1 E900.0	03/11/09 22:56/eli-ca
Gross Alpha precision (±)	0.7	pCi/L				1 E900.0	03/11/09 22:56/eli-ca
Gross Alpha MDC	1.1	pCi/L				1 E900.0	03/11/09 22:56/eli-ca
Gross Beta	-2	pCi/L	U			1 E900.0	03/11/09 22:56/eli-ca
Gross Beta precision (±)	1.6	pCi/L				1 E900.0	03/11/09 22:56/eli-ca
Gross Beta MDC	2.7	pCi/L				1 E900.0	03/11/09 22:56/eli-ca
Lead 210	-0.4	pCi/L	U			1 E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1 E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1 E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.054	pCi/L	U			1 E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.43	pCi/L				1 E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1 E912.0	03/10/09 13:10/eli-c
Radium 226	0.2	pCi/L				1 E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.1	pCi/L				1 E903.0	03/11/09 15:45/eli-c
Thorium 230	0.06	pCi/L	U			1 E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L				1 E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1 E907.0	03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1 E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	-4	pCi/L	U			1 E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.3	pCi/L				1 E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1 E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.14	pCi/L	U			1 E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1 E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.66	pCi/L				1 E912.0	03/23/09 07:21/eli-c

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-001
 Client Sample ID: DewBurd BLK01

Report Date: 04/14/09
 Collection Date: 02/24/09 18:00
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.2	pCi/L	U			1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Thorium 230	-0.03	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	141	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	64.2	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/09/09 13:54/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/09/09 13:54/eli-c
Barium	ND	mg/L		0.1		1	E200.7	03/06/09 21:32/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/09/09 13:54/eli-c
Boron	ND	mg/L		0.1		1	E200.7	03/06/09 21:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/09/09 13:54/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/09/09 13:54/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/09/09 13:54/eli-c
Iron	ND	mg/L		0.03		1	E200.7	03/06/09 21:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/09/09 13:54/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	03/06/09 02:56/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/02/09 11:03/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/09/09 13:54/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/09/09 13:54/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/09/09 13:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/09/09 13:54/eli-c
Strontium	ND	mg/L		0.1		1	E200.7	03/06/09 21:32/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/09/09 13:54/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	03/09/09 13:54/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/09/09 13:54/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-002
Client Sample ID: DewBurd GW704

Report Date: 04/14/09
Collection Date: 02/24/09 09:40
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	03/03/09 14:20/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:20/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	03/03/09 14:20/mb
Calcium	55	mg/L	D	6		5	E200.7	03/06/09 21:37/eli-c
Chloride	10	mg/L		1		1	E300.0	02/25/09 23:50/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	02/25/09 23:50/jmh
Magnesium	18.6	mg/L		0.5		5	E200.7	03/06/09 21:37/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	02/27/09 16:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/25/09 23:50/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/25/09 23:50/jmh
Potassium	9.3	mg/L		0.5		5	E200.7	03/06/09 21:37/eli-c
Sodium	205	mg/L		0.5		5	E200.7	03/06/09 21:37/eli-c
Sulfate	487	mg/L	D	3		50	E300.0	02/25/09 23:34/jmh
Silica	7.1	mg/L		0.2		5	E200.7	03/06/09 21:37/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm		5.0		1	A2510 B	02/27/09 12:42/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.78	s.u.		0.01		1	A4500-H B	02/27/09 10:49/tb
Sodium Adsorption Ratio (SAR)	6.1	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	890	mg/L		5		1	A2540 C	03/02/09 09:56/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 19:45/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 19:45/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 19:45/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 21:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 19:45/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 19:45/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 19:45/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 21:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 19:45/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	03/04/09 19:45/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 19:45/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 19:45/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 19:45/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:42/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 19:45/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 19:45/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/04/09 19:45/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-002
Client Sample ID: DewBurd GW704

Report Date: 04/14/09
Collection Date: 02/24/09 09:40
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1 E200.8	03/04/09 19:45/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	03/04/09 19:45/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	03/10/09 02:59/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	03/06/09 13:53/eli-ce
Selenium-VI	ND	mg/L		0.001		1 A3114 B	03/09/09 13:39/eli-ce
RADIONUCLIDES - DISSOLVED							
Gross Alpha	2.5	pCi/L	U			1 E900.0	03/11/09 22:56/eli-ce
Gross Alpha precision (±)	3.0	pCi/L				1 E900.0	03/11/09 22:56/eli-ce
Gross Alpha MDC	4.7	pCi/L				1 E900.0	03/11/09 22:56/eli-ce
Gross Beta	8.8	pCi/L				1 E900.0	03/11/09 22:56/eli-ce
Gross Beta precision (±)	3.5	pCi/L				1 E900.0	03/11/09 22:56/eli-ce
Gross Beta MDC	5.7	pCi/L				1 E900.0	03/11/09 22:56/eli-ce
Lead 210	-1	pCi/L	U			1 E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1 E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1 E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.15	pCi/L	U			1 E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.55	pCi/L				1 E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1 E912.0	03/10/09 13:10/eli-c
Radium 226	1.6	pCi/L				1 E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	03/11/09 15:45/eli-c
Thorium 230	0.04	pCi/L	U			1 E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1 E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1 E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	03/06/09 09:10/eli-c
<p>- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.</p>							
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.2	pCi/L	U			1 E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1 E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1 E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.068	pCi/L	U			1 E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.34	pCi/L				1 E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.72	pCi/L				1 E912.0	03/23/09 07:21/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-002
Client Sample ID: DewBurd GW704

Report Date: 04/14/09
Collection Date: 02/24/09 09:40
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.03	pCi/L	U				1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	03/17/09 13:12/eli-c
Thorium 230	-0.007	pCi/L	U				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L					1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	200	pCi/L		100			1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	69.5	pCi/L					1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	03/09/09 14:01/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	03/09/09 14:01/eli-c
Barium	ND	mg/L		0.1			5	E200.7	03/06/09 21:41/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	03/09/09 14:01/eli-c
Boron	ND	mg/L		0.1			1	E200.8	03/09/09 14:01/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/09/09 14:01/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/09/09 14:01/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/09/09 14:01/eli-c
Iron	1.55	mg/L		0.03			1	E200.8	03/09/09 14:01/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/09/09 14:01/eli-c
Manganese	0.09	mg/L		0.01			1	E200.8	03/06/09 03:29/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	03/02/09 11:10/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	03/09/09 14:01/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/09/09 14:01/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	03/09/09 14:01/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/09/09 14:01/eli-c
Strontium	1.0	mg/L		0.1			1	E200.8	03/09/09 14:01/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	03/09/09 14:01/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	03/09/09 14:01/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	03/09/09 14:01/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.29	%					1	A1030 E	04/14/09 00:00/ADM
Anions	13.8	meq/L					1	A1030 E	04/14/09 00:00/ADM
Cations	13.4	meq/L					1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	905	mg/L					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-002
Client Sample ID: DewBurd GW704

Report Date: 04/14/09
Collection Date: 02/24/09 09:40
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	0.980						1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-003
Client Sample ID: DewBurd GW3026

Report Date: 04/14/09
Collection Date: 02/24/09 11:35
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	176	mg/L		5		1	A2320 B	03/03/09 14:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:22/mb
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B	03/03/09 14:22/mb
Calcium	334	mg/L	D	6		5	E200.7	03/06/09 21:46/eli-c
Chloride	16	mg/L		1		1	E300.0	02/26/09 00:56/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	02/26/09 00:56/jmh
Magnesium	108	mg/L		0.5		5	E200.7	03/06/09 21:46/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 00:56/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 00:56/jmh
Potassium	17.5	mg/L		0.5		5	E200.7	03/06/09 21:46/eli-c
Sodium	147	mg/L		0.5		5	E200.7	03/06/09 21:46/eli-c
Sulfate	1390	mg/L	D	3		50	E300.0	02/26/09 00:06/jmh
Silica	8.1	mg/L		0.2		5	E200.7	03/06/09 21:46/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2510	umhos/cm		5.0		1	A2510 B	02/27/09 12:44/tb
Oxidation-Reduction Potential	170	mV				1	A2580 B	03/02/09 11:00/jmh
pH	6.63	s.u.		0.01		1	A4500-H B	02/27/09 10:50/tb
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	03/02/09 09:57/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 19:52/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/04/09 19:52/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 19:52/eli-c
Boron	0.2	mg/L		0.1		5	E200.7	03/06/09 21:46/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 19:52/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 19:52/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 19:52/eli-c
Iron	2.98	mg/L		0.03		5	E200.7	03/06/09 21:46/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 19:52/eli-c
Manganese	1.10	mg/L		0.01		1	E200.8	03/04/09 19:52/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 19:52/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 19:52/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 19:52/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:44/eli-cc
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 19:52/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 19:52/eli-c
Uranium	0.0022	mg/L		0.0003		1	E200.8	03/04/09 19:52/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-003
 Client Sample ID: DewBurd GW3026

Report Date: 04/14/09
 Collection Date: 02/24/09 11:35
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 03/04/09 19:52/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 03/04/09 19:52/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 03/10/09 03:20/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 03/06/09 13:55/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B 03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED							
Gross Alpha	15.4	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Gross Alpha precision (±)	6.6	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Gross Alpha MDC	9.2	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Gross Beta	18.1	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Gross Beta precision (±)	6.0	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Gross Beta MDC	9.6	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Lead 210	0.4	pCi/L	U			1	E909.0M 03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M 03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M 03/16/09 09:10/eli-c
Polonium 210	0.14	pCi/L	U			1	E912.0 03/10/09 13:10/eli-c
Polonium 210 MDC	0.65	pCi/L				1	E912.0 03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1	E912.0 03/10/09 13:10/eli-c
Radium 226	2.9	pCi/L				1	E903.0 03/11/09 15:45/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0 03/11/09 15:45/eli-c
Thorium 230	-0.03	pCi/L	U			1	E907.0 03/13/09 12:03/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0 03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1 03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1 03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	2.9	pCi/L	U			1	E909.0M 03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M 03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M 03/11/09 10:11/eli-c
Polonium 210	0.098	pCi/L	U			1	E912.0 03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.34	pCi/L				1	E912.0 03/23/09 07:21/eli-c
Polonium 210 MDC	0.68	pCi/L				1	E912.0 03/23/09 07:21/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-003
 Client Sample ID: DewBurd GW3026

Report Date: 04/14/09
 Collection Date: 02/24/09 11:35
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	0.1	pCi/L	U				1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	03/17/09 13:12/eli-c
Thorium 230	-0.07	pCi/L	U				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L					1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	484	pCi/L		100			1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	72.4	pCi/L					1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	03/09/09 14:07/eli-c
Arsenic	0.006	mg/L		0.001			1	E200.8	03/09/09 14:07/eli-c
Barium	ND	mg/L		0.1			5	E200.7	03/06/09 21:50/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	03/09/09 14:07/eli-c
Boron	0.2	mg/L		0.1			1	E200.8	03/09/09 14:07/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/09/09 14:07/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/09/09 14:07/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/09/09 14:07/eli-c
Iron	15.1	mg/L		0.03			1	E200.8	03/09/09 14:07/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/09/09 14:07/eli-c
Manganese	1.35	mg/L		0.01			1	E200.8	03/06/09 03:35/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	03/02/09 11:12/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	03/09/09 14:07/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/09/09 14:07/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	03/09/09 14:07/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/09/09 14:07/eli-c
Strontium	5.8	mg/L		0.1			1	E200.8	03/09/09 14:07/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	03/09/09 14:07/eli-c
Uranium	0.0025	mg/L		0.0003			1	E200.8	03/09/09 14:07/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	03/09/09 14:07/eli-c
DATA QUALITY									
A/C Balance (± 5)	-0.590	%					1	A1030 E	04/14/09 00:00/ADM
Anions	33.0	meq/L					1	A1030 E	04/14/09 00:00/ADM
Cations	32.6	meq/L					1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	2140	mg/L					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-003
Client Sample ID: DewBurd GW3026

Report Date: 04/14/09
Collection Date: 02/24/09 11:35
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	1.05						1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-004
 Client Sample ID: DewBurd GW698

Report Date: 04/14/09
 Collection Date: 02/24/09 12:10
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	110	mg/L		5		1	A2320 B	03/03/09 14:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:24/mb
Bicarbonate as HCO3	134	mg/L		5		1	A2320 B	03/03/09 14:24/mb
Calcium	357	mg/L	D	6		5	E200.7	03/06/09 21:54/eli-c
Chloride	9	mg/L		1		1	E300.0	02/26/09 02:01/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	02/26/09 02:01/jmh
Magnesium	131	mg/L		0.5		5	E200.7	03/06/09 21:54/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 02:01/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 02:01/jmh
Potassium	15.5	mg/L		0.5		5	E200.7	03/06/09 21:54/eli-c
Sodium	86.5	mg/L		0.5		5	E200.7	03/06/09 21:54/eli-c
Sulfate	1240	mg/L	D	3		50	E300.0	02/26/09 01:12/jmh
Silica	10.2	mg/L		0.2		5	E200.7	03/06/09 21:54/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2360	umhos/cm		5.0		1	A2510 B	02/27/09 12:46/tb
Oxidation-Reduction Potential	110	mV				1	A2580 B	03/02/09 11:00/jmh
pH	6.82	s.u.		0.01		1	A4500-H B	02/27/09 10:54/tb
Sodium Adsorption Ratio (SAR)	0.99	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	03/02/09 09:57/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 19:59/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 19:59/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 19:59/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 21:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 19:59/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 19:59/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 19:59/eli-c
Iron	2.03	mg/L		0.03		5	E200.7	03/06/09 21:54/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 19:59/eli-c
Manganese	2.45	mg/L		0.01		1	E200.8	03/04/09 19:59/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 19:59/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 19:59/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 19:59/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 19:59/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 19:59/eli-c
Uranium	0.108	mg/L		0.0003		1	E200.8	03/04/09 19:59/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-004
 Client Sample ID: DewBurd GW698

Report Date: 04/14/09
 Collection Date: 02/24/09 12:10
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 19:59/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 19:59/eli-c
METALS - SUSPENDED								
Uranium	0.0050	mg/L		0.0003		1	E200.8	03/10/09 03:24/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:00/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1270	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha precision (±)	35.4	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha MDC	9.5	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta	357	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta precision (±)	10.4	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta MDC	9.6	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Lead 210	1.5	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.40	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.51	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.45	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	355	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	3.1	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	0.03	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	420	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	56	pCi/L				1	E901.1	03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	4.5	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.78	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.62	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.61	pCi/L				1	E912.0	03/23/09 07:21/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-004
 Client Sample ID: DewBurd GW698

Report Date: 04/14/09
 Collection Date: 02/24/09 12:10
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	11.0	pCi/L					1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.9	pCi/L					1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	03/17/09 13:12/eli-c
Thorium 230	1	pCi/L					1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L					1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.5	pCi/L					1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	38400	pCi/L		100			1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	279	pCi/L					1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	03/10/09 04:18/eli-c
Arsenic	0.003	mg/L	L	0.002			1	E200.8	03/10/09 04:18/eli-c
Barium	ND	mg/L		0.1			1	E200.8	03/10/09 04:18/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	03/16/09 22:35/eli-c
Boron	ND	mg/L	D	0.2			5	E200.7	03/10/09 16:41/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/10/09 04:18/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/10/09 04:18/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/10/09 04:18/eli-c
Iron	4.37	mg/L		0.03			1	E200.8	03/10/09 04:18/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/10/09 04:18/eli-c
Manganese	2.7	mg/L	D	0.1			5	E200.7	03/10/09 16:41/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	03/02/09 11:15/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	03/16/09 22:35/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/10/09 04:18/eli-c
Selenium	0.001	mg/L		0.001			1	E200.8	03/10/09 04:18/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/10/09 04:18/eli-c
Strontium	4.7	mg/L		0.1			1	E200.8	03/10/09 04:18/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	03/10/09 04:18/eli-c
Uranium	0.113	mg/L		0.0003			1	E200.8	03/10/09 04:18/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	03/10/09 04:18/eli-c
DATA QUALITY									
A/C Balance (± 5)	7.55	%					1	A1030 E	04/14/09 00:00/ADM
Anions	28.4	meq/L					1	A1030 E	04/14/09 00:00/ADM
Cations	33.0	meq/L					1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	1940	mg/L					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

L - Lowest available reporting limit for the analytical method used.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-004
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:10
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	1.15						1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-005
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	114	mg/L		5			1	A2320 B	03/03/09 14:28/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	03/03/09 14:28/mb
Bicarbonate as HCO3	139	mg/L		5			1	A2320 B	03/03/09 14:28/mb
Calcium	348	mg/L	D	6			5	E200.7	03/06/09 21:59/eli-c
Chloride	9	mg/L		1			1	E300.0	02/26/09 02:34/jmh
Fluoride	0.4	mg/L		0.1			1	E300.0	02/26/09 02:34/jmh
Magnesium	130	mg/L		0.5			5	E200.7	03/06/09 21:59/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1			1	A4500-NH3 G	02/27/09 15:31/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	02/26/09 02:34/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	02/26/09 02:34/jmh
Potassium	15.5	mg/L		0.5			5	E200.7	03/06/09 21:59/eli-c
Sodium	85.5	mg/L		0.5			5	E200.7	03/06/09 21:59/eli-c
Sulfate	1380	mg/L	D	3			50	E300.0	02/26/09 02:18/jmh
Silica	10	mg/L		0.2			5	E200.7	03/06/09 21:59/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	2390	umhos/cm		5.0			1	A2510 B	02/27/09 12:47/tb
Oxidation-Reduction Potential	110	mV					1	A2580 B	03/02/09 11:00/jmh
pH	6.78	s.u.		0.01			1	A4500-H B	02/27/09 11:00/tb
Sodium Adsorption Ratio (SAR)	0.99	unitless		0.10			1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5			1	A2540 C	03/02/09 09:58/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	03/04/09 20:05/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	03/04/09 20:05/eli-c
Barium	ND	mg/L		0.1			1	E200.8	03/04/09 20:05/eli-c
Boron	ND	mg/L		0.1			5	E200.7	03/06/09 21:59/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/04/09 20:05/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/04/09 20:05/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/04/09 20:05/eli-c
Iron	1.16	mg/L		0.03			5	E200.7	03/06/09 21:59/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/04/09 20:05/eli-c
Manganese	2.42	mg/L		0.01			1	E200.8	03/04/09 20:05/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	03/04/09 20:05/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	03/04/09 20:05/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/04/09 20:05/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	03/09/09 10:49/eli-ce
Silver	ND	mg/L		0.005			1	E200.8	03/04/09 20:05/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	03/04/09 20:05/eli-c
Uranium	0.104	mg/L		0.0003			1	E200.8	03/04/09 20:05/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-005
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	03/04/09 20:05/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	03/04/09 20:05/eli-c
METALS - SUSPENDED									
Uranium	0.0047	mg/L		0.0003			1	E200.8	03/10/09 03:28/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	03/06/09 14:02/eli-ca
Selenium-VI	ND	mg/L		0.001			1	A3114 B	03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED									
Gross Alpha	1490	pCi/L					1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha precision (±)	38.6	pCi/L					1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha MDC	9.7	pCi/L					1	E900.0	03/11/09 22:56/eli-ca
Gross Beta	373	pCi/L					1	E900.0	03/11/09 22:56/eli-ca
Gross Beta precision (±)	10.6	pCi/L					1	E900.0	03/11/09 22:56/eli-ca
Gross Beta MDC	9.6	pCi/L					1	E900.0	03/11/09 22:56/eli-ca
Lead 210	2.1	pCi/L	U				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L					1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L					1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.068	pCi/L	U				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.51	pCi/L					1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.25	pCi/L					1	E912.0	03/10/09 13:10/eli-c
Radium 226	349	pCi/L					1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	3.0	pCi/L					1	E903.0	03/11/09 15:45/eli-c
Thorium 230	0.05	pCi/L	U				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L					1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	440	pCi/L					1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	56	pCi/L					1	E901.1	03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - SUSPENDED									
Lead 210	1.1	pCi/L	U				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L					1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L					1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	1.1	pCi/L					1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.82	pCi/L					1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.91	pCi/L					1	E912.0	03/23/09 07:21/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-005
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	12.5	pCi/L					1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	1	pCi/L					1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	03/17/09 13:12/eli-c
Thorium 230	0.4	pCi/L	U				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L					1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.4	pCi/L					1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	42600	pCi/L		100			1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	293	pCi/L					1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	03/10/09 04:25/eli-c
Arsenic	0.003	mg/L	L	0.002			1	E200.8	03/10/09 04:25/eli-c
Barium	ND	mg/L		0.1			1	E200.8	03/10/09 04:25/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	03/16/09 22:41/eli-c
Boron	ND	mg/L	D	0.2			5	E200.7	03/10/09 16:45/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/10/09 04:25/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/10/09 04:25/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/10/09 04:25/eli-c
Iron	4.28	mg/L		0.03			1	E200.8	03/10/09 04:25/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/10/09 04:25/eli-c
Manganese	2.6	mg/L	D	0.1			5	E200.7	03/10/09 16:45/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	03/02/09 11:22/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	03/16/09 22:41/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/10/09 04:25/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	03/10/09 04:25/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/10/09 04:25/eli-c
Strontium	4.7	mg/L		0.1			1	E200.8	03/10/09 04:25/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	03/10/09 04:25/eli-c
Uranium	0.110	mg/L		0.0003			1	E200.8	03/10/09 04:25/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	03/10/09 04:25/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.91	%					1	A1030 E	04/14/09 00:00/ADM
Anions	31.2	meq/L					1	A1030 E	04/14/09 00:00/ADM
Cations	32.5	meq/L					1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	2060	mg/L					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 18 of 57
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 L - Lowest available reporting limit for the analytical method used. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-005
Client Sample ID: DewBurd GW698

Report Date: 04/14/09
Collection Date: 02/24/09 12:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.09						1 A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-006
 Client Sample ID: DewBurd GW688

Report Date: 04/14/09
 Collection Date: 02/24/09 13:23
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	03/03/09 14:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:30/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	03/03/09 14:30/mb
Calcium	52	mg/L	D	6		5	E200.7	03/06/09 22:03/eli-c
Chloride	11	mg/L		1		1	E300.0	02/26/09 03:07/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	02/26/09 03:07/jmh
Magnesium	21.4	mg/L		0.5		5	E200.7	03/06/09 22:03/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:32/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 03:07/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 03:07/jmh
Potassium	12.1	mg/L		0.5		5	E200.7	03/06/09 22:03/eli-c
Sodium	181	mg/L		0.5		5	E200.7	03/06/09 22:03/eli-c
Sulfate	460	mg/L	D	3		50	E300.0	02/26/09 02:51/jmh
Silica	7.5	mg/L		0.2		5	E200.7	03/06/09 22:03/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1200	umhos/cm		5.0		1	A2510 B	02/27/09 12:49/tb
Oxidation-Reduction Potential	120	mV				1	A2580 B	03/02/09 11:00/jmh
pH	8.03	s.u.		0.01		1	A4500-H B	02/27/09 11:01/tb
Sodium Adsorption Ratio (SAR)	5.3	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	830	mg/L		5		1	A2540 C	03/02/09 09:58/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 20:12/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	03/04/09 20:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 20:12/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 22:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 20:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 20:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 20:12/eli-c
Iron	0.03	mg/L		0.03		5	E200.7	03/06/09 22:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 20:12/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	03/04/09 20:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 20:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 20:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 20:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:51/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 20:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 20:12/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/04/09 20:12/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-006
Client Sample ID: DewBurd GW688

Report Date: 04/14/09
Collection Date: 02/24/09 13:23
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 20:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 20:12/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 03:32/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:04/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	28.7	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha precision (±)	4.3	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha MDC	4.2	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta	19.2	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta precision (±)	3.2	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta MDC	4.8	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Lead 210	-1	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	3.2	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	5.4	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.45	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.43	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.41	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	7.9	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	0.03	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	03/06/09 09:10/eli-c
<p>- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.</p>								
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.9	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	-0.054	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.26	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.73	pCi/L				1	E912.0	03/23/09 07:21/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-006
 Client Sample ID: DewBurd GW688

Report Date: 04/14/09
 Collection Date: 02/24/09 13:23
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226	0.2	pCi/L	U			1 E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1 E903.0	03/17/09 13:12/eli-c
Thorium 230	0.1	pCi/L	U			1 E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L				1 E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1 E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - TOTAL							
Radon 222	218	pCi/L		100		1 D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	67.9	pCi/L				1 D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	03/10/09 04:31/eli-c
Arsenic	0.003	mg/L	L	0.002		1 E200.8	03/10/09 04:31/eli-c
Barium	ND	mg/L		0.1		1 E200.8	03/10/09 04:31/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	03/16/09 23:15/eli-c
Boron	ND	mg/L	D	0.2		5 E200.7	03/10/09 16:50/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	03/10/09 04:31/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	03/10/09 04:31/eli-c
Copper	ND	mg/L		0.01		1 E200.8	03/10/09 04:31/eli-c
Iron	0.44	mg/L		0.03		1 E200.8	03/10/09 04:31/eli-c
Lead	ND	mg/L		0.001		1 E200.8	03/10/09 04:31/eli-c
Manganese	0.07	mg/L		0.01		1 E200.8	03/16/09 23:15/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	03/02/09 11:24/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	03/16/09 23:15/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	03/10/09 04:31/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	03/10/09 04:31/eli-c
Silver	ND	mg/L		0.005		1 E200.8	03/10/09 04:31/eli-c
Strontium	1.3	mg/L		0.1		1 E200.8	03/10/09 04:31/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	03/10/09 04:31/eli-c
Uranium	0.0005	mg/L		0.0003		1 E200.8	03/10/09 04:31/eli-c
Zinc	0.01	mg/L		0.01		1 E200.8	03/10/09 04:31/eli-c
DATA QUALITY							
A/C Balance (± 5)	-2.71	%				1 A1030 E	04/14/09 00:00/ADM
Anions	13.2	meq/L				1 A1030 E	04/14/09 00:00/ADM
Cations	12.6	meq/L				1 A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	858	mg/L				1 A1030 E	04/14/09 00:00/ADM

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 22 of 57
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 L - Lowest available reporting limit for the analytical method used. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-006
Client Sample ID: DewBurd GW688

Report Date: 04/14/09
Collection Date: 02/24/09 13:23
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-007
 Client Sample ID: DewBurd GW680

Report Date: 04/14/09
 Collection Date: 02/24/09 13:35
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	250	mg/L		5		1	A2320 B	03/03/09 14:33/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:33/mb
Bicarbonate as HCO3	305	mg/L		5		1	A2320 B	03/03/09 14:33/mb
Calcium	365	mg/L	D	6		5	E200.7	03/06/09 22:30/eli-c
Chloride	13	mg/L		1		1	E300.0	02/26/09 04:13/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	02/26/09 04:13/jmh
Magnesium	121	mg/L		0.5		5	E200.7	03/06/09 22:30/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:34/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 04:13/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 04:13/jmh
Potassium	19.2	mg/L		0.5		5	E200.7	03/06/09 22:30/eli-c
Sodium	145	mg/L		0.5		5	E200.7	03/06/09 22:30/eli-c
Sulfate	1400	mg/L	D	3		50	E300.0	02/26/09 03:23/jmh
Silica	8.6	mg/L		0.2		5	E200.7	03/06/09 22:30/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2530	umhos/cm		5.0		1	A2510 B	02/27/09 12:50/tb
Oxidation-Reduction Potential	140	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.16	s.u.		0.01		1	A4500-H B	02/27/09 11:03/tb
Sodium Adsorption Ratio (SAR)	1.7	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	2300	mg/L		5		1	A2540 C	03/02/09 09:59/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 20:19/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	03/04/09 20:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 20:19/eli-c
Boron	0.2	mg/L		0.1		5	E200.7	03/06/09 22:30/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 20:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 20:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 20:19/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 22:30/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 20:19/eli-c
Manganese	0.44	mg/L		0.01		1	E200.8	03/04/09 20:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 20:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 20:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 20:19/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 10:58/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 20:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 20:19/eli-c
Uranium	0.0185	mg/L		0.0003		1	E200.8	03/04/09 20:19/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-007
 Client Sample ID: DewBurd GW680

Report Date: 04/14/09
 Collection Date: 02/24/09 13:35
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1	E200.8 03/04/09 20:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8 03/04/09 20:19/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1	E200.8 03/10/09 03:36/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1	A3114 B 03/06/09 14:11/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B 03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED							
Gross Alpha	5140	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Gross Alpha precision (±)	73.7	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Gross Alpha MDC	10.4	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Gross Beta	1210	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Gross Beta precision (±)	17.1	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Gross Beta MDC	9.7	pCi/L				1	E900.0 03/11/09 22:56/eli-ca
Lead 210	10.6	pCi/L				1	E909.0M 03/16/09 09:10/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M 03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M 03/16/09 09:10/eli-c
Polonium 210	0.069	pCi/L	U			1	E912.0 03/10/09 13:10/eli-c
Polonium 210 MDC	0.45	pCi/L				1	E912.0 03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.23	pCi/L				1	E912.0 03/10/09 13:10/eli-c
Radium 226	1330	pCi/L				1	E903.0 03/11/09 15:45/eli-c
Radium 226 precision (±)	6.1	pCi/L				1	E903.0 03/11/09 15:45/eli-c
Thorium 230	-0.009	pCi/L	U			1	E907.0 03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0 03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0 03/13/09 12:03/eli-c
Gross Gamma	1000	pCi/L				1	E901.1 03/06/09 09:10/eli-c
Gross Gamma precision (±)	80	pCi/L				1	E901.1 03/06/09 09:10/eli-c
RADIONUCLIDES - SUSPENDED							
Lead 210	4.1	pCi/L	U			1	E909.0M 03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M 03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M 03/11/09 10:11/eli-c
Polonium 210	0.64	pCi/L				1	E912.0 03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.53	pCi/L				1	E912.0 03/23/09 07:21/eli-c
Polonium 210 MDC	0.49	pCi/L				1	E912.0 03/23/09 07:21/eli-c
Radium 226	6.4	pCi/L				1	E903.0 03/17/09 13:12/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-007
 Client Sample ID: DewBurd GW680

Report Date: 04/14/09
 Collection Date: 02/24/09 13:35
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 precision (±)	0.7	pCi/L				1 E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1 E903.0	03/17/09 13:12/eli-c
Thorium 230	0.03	pCi/L	U			1 E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1 E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - TOTAL							
Radon 222	56800	pCi/L		100		1 D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	334	pCi/L				1 D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	03/09/09 14:14/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	03/09/09 14:14/eli-c
Barium	ND	mg/L		0.1		5 E200.7	03/06/09 22:39/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	03/09/09 14:14/eli-c
Boron	0.1	mg/L		0.1		1 E200.8	03/09/09 14:14/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	03/09/09 14:14/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	03/09/09 14:14/eli-c
Copper	ND	mg/L		0.01		1 E200.8	03/09/09 14:14/eli-c
Iron	0.24	mg/L		0.03		1 E200.8	03/09/09 14:14/eli-c
Lead	ND	mg/L		0.001		1 E200.8	03/09/09 14:14/eli-c
Manganese	0.44	mg/L		0.01		1 E200.8	03/06/09 03:42/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	03/02/09 11:27/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	03/09/09 14:14/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	03/09/09 14:14/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	03/09/09 14:14/eli-c
Silver	ND	mg/L		0.005		1 E200.8	03/09/09 14:14/eli-c
Strontium	7.2	mg/L		0.1		1 E200.8	03/09/09 14:14/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	03/09/09 14:14/eli-c
Uranium	0.0206	mg/L		0.0003		1 E200.8	03/09/09 14:14/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	03/09/09 14:14/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.760	%				1 A1030 E	04/14/09 00:00/ADM
Anions	34.4	meq/L				1 A1030 E	04/14/09 00:00/ADM
Cations	35.0	meq/L				1 A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	2230	mg/L				1 A1030 E	04/14/09 00:00/ADM
TDS Balance (0.80 - 1.20)	1.04					1 A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-008
 Client Sample ID: DewBurd GW622

Report Date: 04/14/09
 Collection Date: 02/24/09 15:31
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	03/03/09 14:35/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:35/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	03/03/09 14:35/mb
Calcium	85	mg/L	D	6		5	E200.7	03/06/09 22:43/eli-c
Chloride	10	mg/L		1		1	E300.0	02/26/09 05:18/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	02/26/09 05:18/jmh
Magnesium	30.5	mg/L		0.5		5	E200.7	03/06/09 22:43/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:35/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 05:18/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 05:18/jmh
Potassium	10.8	mg/L		0.5		5	E200.7	03/06/09 22:43/eli-c
Sodium	167	mg/L		0.5		5	E200.7	03/06/09 22:43/eli-c
Sulfate	495	mg/L	D	3		50	E300.0	02/26/09 04:29/jmh
Silica	7.3	mg/L		0.2		5	E200.7	03/06/09 22:43/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1230	umhos/cm		5.0		1	A2510 B	02/27/09 12:55/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.58	s.u.		0.01		1	A4500-H B	02/27/09 11:04/tb
Sodium Adsorption Ratio (SAR)	3.9	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	03/02/09 10:00/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 20:53/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 20:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 20:53/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 22:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 20:53/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 20:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 20:53/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 22:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 20:53/eli-c
Manganese	0.18	mg/L		0.01		1	E200.8	03/04/09 20:53/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 20:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 20:53/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 20:53/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:00/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 20:53/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 20:53/eli-c
Uranium	0.0053	mg/L		0.0003		1	E200.8	03/04/09 20:53/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-008
 Client Sample ID: DewBurd GW622

Report Date: 04/14/09
 Collection Date: 02/24/09 15:31
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1 E200.8	03/04/09 20:53/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	03/04/09 20:53/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	03/10/09 03:40/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	03/06/09 14:14/eli-ce
Selenium-VI	ND	mg/L		0.001		1 A3114 B	03/09/09 13:39/eli-ce
RADIONUCLIDES - DISSOLVED							
Gross Alpha	44.3	pCi/L				1 E900.0	03/11/09 22:56/eli-ce
Gross Alpha precision (±)	5.3	pCi/L				1 E900.0	03/11/09 22:56/eli-ce
Gross Alpha MDC	4.6	pCi/L				1 E900.0	03/11/09 22:56/eli-ce
Gross Beta	19.7	pCi/L				1 E900.0	03/11/09 22:56/eli-ce
Gross Beta precision (±)	3.2	pCi/L				1 E900.0	03/11/09 22:56/eli-ce
Gross Beta MDC	4.8	pCi/L				1 E900.0	03/11/09 22:56/eli-ce
Lead 210	0.7	pCi/L	U			1 E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1 E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1 E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.16	pCi/L	U			1 E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.46	pCi/L				1 E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1 E912.0	03/10/09 13:10/eli-c
Radium 226	7.9	pCi/L				1 E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.5	pCi/L				1 E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.01	pCi/L	U			1 E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1 E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1 E907.0	03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1 E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1 E901.1	03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	0.1	pCi/L	U			1 E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1 E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1 E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.30	pCi/L	U			1 E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1 E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.47	pCi/L				1 E912.0	03/23/09 07:21/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-008
 Client Sample ID: DewBurd GW622

Report Date: 04/14/09
 Collection Date: 02/24/09 15:31
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226	0.5	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 13:12/eli-c
Thorium 230	-0.09	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - TOTAL								
Radon 222	1360	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	81.2	pCi/L				1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 04:38/eli-c
Arsenic	0.004	mg/L	L	0.002		1	E200.8	03/10/09 04:38/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/10/09 04:38/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/16/09 23:22/eli-c
Boron	ND	mg/L	D	0.2		5	E200.7	03/10/09 16:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 04:38/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 04:38/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 04:38/eli-c
Iron	1.40	mg/L		0.03		1	E200.8	03/10/09 04:38/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	03/10/09 04:38/eli-c
Manganese	0.2	mg/L	D	0.1		5	E200.7	03/10/09 16:54/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/02/09 11:29/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/16/09 23:22/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 04:38/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/10/09 04:38/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 04:38/eli-c
Strontium	1.6	mg/L		0.1		1	E200.8	03/10/09 04:38/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 04:38/eli-c
Uranium	0.0051	mg/L		0.0003		1	E200.8	03/10/09 04:38/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	03/10/09 04:38/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.620	%				1	A1030 E	04/14/09 00:00/ADM
Anions	14.2	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	14.3	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	925	mg/L				1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 29 of 57
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 L - Lowest available reporting limit for the analytical method used. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-008
Client Sample ID: DewBurd GW622

Report Date: 04/14/09
Collection Date: 02/24/09 15:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	04/14/09 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-009
Client Sample ID: DewBurd GW615

Report Date: 04/14/09
Collection Date: 02/24/09 15:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	138	mg/L		5		1	A2320 B	03/03/09 14:39/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:39/mb
Bicarbonate as HCO3	168	mg/L		5		1	A2320 B	03/03/09 14:39/mb
Calcium	69	mg/L	D	1		1	E200.7	03/06/09 22:48/eli-c
Chloride	5	mg/L		1		1	E300.0	02/26/09 05:51/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	02/26/09 05:51/jmh
Magnesium	21.0	mg/L		0.5		1	E200.7	03/06/09 22:48/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:36/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 05:51/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 05:51/jmh
Potassium	8.4	mg/L		0.5		1	E200.7	03/06/09 22:48/eli-c
Sodium	124	mg/L		0.5		1	E200.7	03/06/09 22:48/eli-c
Sulfate	398	mg/L	D	3		50	E300.0	02/26/09 05:35/jmh
Silica	7.8	mg/L		0.2		1	E200.7	03/06/09 22:48/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	971	umhos/cm		5.0		1	A2510 B	02/27/09 12:57/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.23	s.u.		0.01		1	A4500-H B	02/27/09 11:06/tb
Sodium Adsorption Ratio (SAR)	3.3	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	730	mg/L		5		1	A2540 C	03/02/09 10:02/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 21:00/eli-c
Arsenic	0.012	mg/L		0.001		1	E200.8	03/04/09 21:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 21:00/eli-c
Boron	ND	mg/L		0.1		1	E200.7	03/06/09 22:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 21:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 21:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 21:00/eli-c
Iron	0.06	mg/L		0.03		1	E200.7	03/06/09 22:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 21:00/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	03/04/09 21:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 21:00/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 21:00/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 21:00/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:03/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 21:00/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 21:00/eli-c
Uranium	0.0025	mg/L		0.0003		1	E200.8	03/04/09 21:00/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-009
 Client Sample ID: DewBurd GW615

Report Date: 04/14/09
 Collection Date: 02/24/09 15:45
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 21:00/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 21:00/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 03:44/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:16/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	14.8	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha precision (±)	3.1	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha MDC	3.6	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta	10.5	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta precision (±)	2.6	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta MDC	4.1	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Lead 210	0.9	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.14	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.46	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.27	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	2.3	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.002	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	03/06/09 09:10/eli-c
<p>- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.</p>								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.5	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.15	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.46	pCi/L				1	E912.0	03/23/09 07:21/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-009
 Client Sample ID: DewBurd GW615

Report Date: 04/14/09
 Collection Date: 02/24/09 15:45
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	0.06	pCi/L	U				1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Thorium 230	0.07	pCi/L	U				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L					1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	1590	pCi/L		100			1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	83.6	pCi/L					1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	03/09/09 14:20/eli-c
Arsenic	0.022	mg/L		0.001			1	E200.8	03/09/09 14:20/eli-c
Barium	ND	mg/L		0.1			1	E200.7	03/06/09 22:52/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	03/09/09 14:20/eli-c
Boron	ND	mg/L		0.1			1	E200.7	03/06/09 22:52/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/09/09 14:20/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/09/09 14:20/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/09/09 14:20/eli-c
Iron	1.31	mg/L		0.03			1	E200.7	03/06/09 22:52/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/09/09 14:20/eli-c
Manganese	0.07	mg/L		0.01			1	E200.8	03/06/09 03:48/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	02/27/09 16:10/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	03/09/09 14:20/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/09/09 14:20/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	03/09/09 14:20/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/09/09 14:20/eli-c
Strontium	1.3	mg/L		0.1			1	E200.7	03/06/09 22:52/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	03/09/09 14:20/eli-c
Uranium	0.0024	mg/L		0.0003			1	E200.8	03/09/09 14:20/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	03/09/09 14:20/eli-c
DATA QUALITY									
A/C Balance (± 5)	-2.02	%					1	A1030 E	04/14/09 00:00/ADM
Anions	11.2	meq/L					1	A1030 E	04/14/09 00:00/ADM
Cations	10.8	meq/L					1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	729	mg/L					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-009
Client Sample ID: DewBurd GW615

Report Date: 04/14/09
Collection Date: 02/24/09 15:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	1.00						1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-010
Client Sample ID: DewBurd GW689

Report Date: 04/14/09
Collection Date: 02/24/09 16:04
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	03/03/09 14:46/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:46/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	03/03/09 14:46/mb
Calcium	45	mg/L	D	6		5	E200.7	03/06/09 22:57/eli-c
Chloride	5	mg/L		1		1	E300.0	02/26/09 06:24/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	02/26/09 06:24/jmh
Magnesium	14.0	mg/L		0.5		5	E200.7	03/06/09 22:57/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:37/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 06:24/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 06:24/jmh
Potassium	8.5	mg/L		0.5		5	E200.7	03/06/09 22:57/eli-c
Sodium	158	mg/L		0.5		5	E200.7	03/06/09 22:57/eli-c
Sulfate	380	mg/L	D	3		50	E300.0	02/26/09 06:08/jmh
Silica	8.3	mg/L		0.2		5	E200.7	03/06/09 22:57/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1040	umhos/cm		5.0		1	A2510 B	02/27/09 13:02/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	02/27/09 11:07/tb
Sodium Adsorption Ratio (SAR)	2.4	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	690	mg/L		5		1	A2540 C	03/02/09 10:02/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 21:27/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 21:27/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 21:27/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 22:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 21:27/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 21:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 21:27/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 22:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 21:27/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	03/04/09 21:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 21:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 21:27/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 21:27/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 21:27/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 21:27/eli-c
Uranium	0.0030	mg/L		0.0003		1	E200.8	03/04/09 21:27/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-010
Client Sample ID: DewBurd GW689

Report Date: 04/14/09
Collection Date: 02/24/09 16:04
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 21:27/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 21:27/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 03:49/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:18/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	23.9	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha precision (±)	3.7	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Alpha MDC	3.7	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta	12.0	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta precision (±)	3.0	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Gross Beta MDC	4.7	pCi/L				1	E900.0	03/11/09 22:56/eli-ca
Lead 210	0.5	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.44	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	1.0	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.65	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	5.4	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.001	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	0.0	pCi/L	U			1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	03/06/09 09:10/eli-c
<p>- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.</p>								
RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.35	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.56	pCi/L				1	E912.0	03/23/09 07:21/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-010
Client Sample ID: DewBurd GW689

Report Date: 04/14/09
Collection Date: 02/24/09 16:04
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.2	pCi/L	U				1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Thorium 230	0.2	pCi/L	U				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L					1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	1810	pCi/L		100			1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	86.0	pCi/L					1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	03/10/09 04:44/eli-c
Arsenic	0.003	mg/L	L	0.002			1	E200.8	03/10/09 04:44/eli-c
Barium	ND	mg/L		0.1			1	E200.8	03/10/09 04:44/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	03/16/09 23:29/eli-c
Boron	ND	mg/L		0.1			1	E200.7	03/10/09 16:59/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/10/09 04:44/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/10/09 04:44/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/10/09 04:44/eli-c
Iron	0.60	mg/L		0.03			1	E200.8	03/10/09 04:44/eli-c
Lead	0.001	mg/L		0.001			1	E200.8	03/10/09 04:44/eli-c
Manganese	0.05	mg/L		0.01			1	E200.8	03/16/09 23:29/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	02/27/09 16:17/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	03/16/09 23:29/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/10/09 04:44/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	03/10/09 04:44/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/10/09 04:44/eli-c
Strontium	0.9	mg/L		0.1			1	E200.8	03/10/09 04:44/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	03/10/09 04:44/eli-c
Uranium	0.0032	mg/L		0.0003			1	E200.8	03/10/09 04:44/eli-c
Zinc	0.02	mg/L		0.01			1	E200.8	03/10/09 04:44/eli-c
DATA QUALITY									
A/C Balance (± 5)	-2.77	%					1	A1030 E	04/14/09 00:00/ADM
Anions	11.1	meq/L					1	A1030 E	04/14/09 00:00/ADM
Cations	10.5	meq/L					1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	722	mg/L					1	A1030 E	04/14/09 00:00/ADM

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 L - Lowest available reporting limit for the analytical method used.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-010
Client Sample ID: DewBurd GW689

Report Date: 04/14/09
Collection Date: 02/24/09 16:04
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-011
Client Sample ID: DewBurd GW681

Report Date: 04/14/09
Collection Date: 02/24/09 16:18
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	174	mg/L		5		1	A2320 B	03/03/09 14:48/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:48/mb
Bicarbonate as HCO3	212	mg/L		5		1	A2320 B	03/03/09 14:48/mb
Calcium	63	mg/L	D	6		5	E200.7	03/06/09 23:01/eli-c
Chloride	13	mg/L		1		1	E300.0	02/26/09 07:30/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	02/26/09 07:30/jmh
Magnesium	24.4	mg/L		0.5		5	E200.7	03/06/09 23:01/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:41/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 07:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 07:30/jmh
Potassium	10.3	mg/L		0.5		5	E200.7	03/06/09 23:01/eli-c
Sodium	200	mg/L		0.5		5	E200.7	03/06/09 23:01/eli-c
Sulfate	479	mg/L	D	3		50	E300.0	02/26/09 06:40/jmh
Silica	7.9	mg/L		0.2		5	E200.7	03/06/09 23:01/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm		5.0		1	A2510 B	02/27/09 13:03/tb
Oxidation-Reduction Potential	140	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.83	s.u.		0.01		1	A4500-H B	02/27/09 11:10/tb
Sodium Adsorption Ratio (SAR)	5.4	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	900	mg/L		5		1	A2540 C	03/02/09 10:03/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 21:33/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	03/04/09 21:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 21:33/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 23:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 21:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 21:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 21:33/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 23:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 21:33/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	03/04/09 21:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 21:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 21:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 21:33/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:12/eli-ce
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 21:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 21:33/eli-c
Uranium	0.0092	mg/L		0.0003		1	E200.8	03/04/09 21:33/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-011
 Client Sample ID: DewBurd GW681

Report Date: 04/14/09
 Collection Date: 02/24/09 16:18
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 21:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 21:33/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 03:53/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:25/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	1460	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Alpha precision (±)	26.4	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Alpha MDC	4.7	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Beta	402	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Beta precision (±)	7.9	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Beta MDC	5.7	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Lead 210	37.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	5.4	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.28	pCi/L	U			1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.46	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.35	pCi/L				1	E912.0	03/10/09 13:10/eli-c
Radium 226	336	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	3.0	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.001	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	6000	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	350	pCi/L				1	E901.1	03/06/09 09:10/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	25.9	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	2.3	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.62	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Radium 226	1.3	pCi/L				1	E903.0	03/17/09 14:53/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-011
Client Sample ID: DewBurd GW681

Report Date: 04/14/09
Collection Date: 02/24/09 16:18
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Thorium 230	0.1	pCi/L	U				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L					1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/14/09 15:06/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	389000	pCi/L		100			1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	851	pCi/L					1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	03/10/09 05:49/eli-c
Arsenic	0.002	mg/L		0.001			1	E200.8	03/10/09 05:49/eli-c
Barium	ND	mg/L		0.1			5	E200.7	03/06/09 23:06/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	03/11/09 06:10/eli-c
Boron	ND	mg/L	D	0.2			5	E200.7	03/10/09 19:34/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/10/09 05:49/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/10/09 05:49/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/10/09 05:49/eli-c
Iron	0.04	mg/L		0.03			1	E200.8	03/10/09 05:49/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/10/09 05:49/eli-c
Manganese	0.08	mg/L		0.01			1	E200.8	03/06/09 03:54/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	02/27/09 16:19/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	03/11/09 06:10/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/10/09 05:49/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	03/10/09 05:49/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/10/09 05:49/eli-c
Strontium	1.2	mg/L		0.1			1	E200.8	03/10/09 05:49/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	03/10/09 05:49/eli-c
Uranium	0.0086	mg/L		0.0003			1	E200.8	03/10/09 05:49/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	03/10/09 05:49/eli-c
DATA QUALITY									
A/C Balance (± 5)	0.990	%					1	A1030 E	04/14/09 00:00/ADM
Anions	13.9	meq/L					1	A1030 E	04/14/09 00:00/ADM
Cations	14.1	meq/L					1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	916	mg/L					1	A1030 E	04/14/09 00:00/ADM
TDS Balance (0.80 - 1.20)	0.980						1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-012
 Client Sample ID: DewBurd GW697

Report Date: 04/14/09
 Collection Date: 02/24/09 16:45
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	03/03/09 14:51/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:51/mb
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	03/03/09 14:51/mb
Calcium	52	mg/L	D	6		5	E200.7	03/06/09 23:11/eli-c
Chloride	8	mg/L		1		1	E300.0	02/26/09 08:35/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	02/26/09 08:35/jmh
Magnesium	16.8	mg/L		0.5		5	E200.7	03/06/09 23:11/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:44/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 08:35/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 08:35/jmh
Potassium	9.2	mg/L		0.5		5	E200.7	03/06/09 23:11/eli-c
Sodium	201	mg/L		0.5		5	E200.7	03/06/09 23:11/eli-c
Sulfate	436	mg/L	D	3		50	E300.0	02/26/09 07:46/jmh
Silica	8.0	mg/L		0.2		5	E200.7	03/06/09 23:11/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1210	umhos/cm		5.0		1	A2510 B	02/27/09 13:05/tb
Oxidation-Reduction Potential	140	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.90	s.u.		0.01		1	A4500-H B	02/27/09 11:11/tb
Sodium Adsorption Ratio (SAR)	6.2	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	820	mg/L		5		1	A2540 C	03/02/09 10:04/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 21:40/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 21:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 21:40/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 23:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 21:40/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 21:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 21:40/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 23:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 21:40/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	03/04/09 21:40/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 21:40/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 21:40/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 21:40/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:14/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 21:40/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 21:40/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/04/09 21:40/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-012
 Client Sample ID: DewBurd GW697

Report Date: 04/14/09
 Collection Date: 02/24/09 16:45
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
METALS - DISSOLVED									
Vanadium	ND	mg/L		0.1			1	E200.8	03/04/09 21:40/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	03/04/09 21:40/eli-c
METALS - SUSPENDED									
Uranium	ND	mg/L		0.0003			1	E200.8	03/10/09 04:13/eli-c
METALS - SPECIATED									
Selenium-IV	ND	mg/L		0.001			1	A3114 B	03/06/09 14:27/eli-cæ
Selenium-VI	ND	mg/L		0.001			1	A3114 B	03/09/09 13:39/eli-cæ
RADIONUCLIDES - DISSOLVED									
Gross Alpha	18.2	pCi/L					1	E900.0	03/12/09 11:11/eli-cæ
Gross Alpha precision (±)	3.8	pCi/L					1	E900.0	03/12/09 11:11/eli-cæ
Gross Alpha MDC	4.3	pCi/L					1	E900.0	03/12/09 11:11/eli-cæ
Gross Beta	11.0	pCi/L					1	E900.0	03/12/09 11:11/eli-cæ
Gross Beta precision (±)	3.0	pCi/L					1	E900.0	03/12/09 11:11/eli-cæ
Gross Beta MDC	4.8	pCi/L					1	E900.0	03/12/09 11:11/eli-cæ
Lead 210	1.0	pCi/L	U				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L					1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L					1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.034	pCi/L	U				1	E912.0	03/10/09 13:10/eli-c
Polonium 210 MDC	0.62	pCi/L					1	E912.0	03/10/09 13:10/eli-c
Polonium 210 precision (±)	0.28	pCi/L					1	E912.0	03/10/09 13:10/eli-c
Radium 226	5.6	pCi/L					1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.4	pCi/L					1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.03	pCi/L	U				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L					1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.05	pCi/L					1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	1100	pCi/L					1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	180	pCi/L					1	E901.1	03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - SUSPENDED									
Lead 210	-2	pCi/L	U				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L					1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L					1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	-0.019	pCi/L	U				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.21	pCi/L					1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.55	pCi/L					1	E912.0	03/23/09 07:21/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-012
Client Sample ID: DewBurd GW697

Report Date: 04/14/09
Collection Date: 02/24/09 16:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.2	pCi/L	U				1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Thorium 230	0.05	pCi/L	U				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L					1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	236	pCi/L		100			1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	66.5	pCi/L					1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	03/10/09 05:56/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	03/10/09 05:56/eli-c
Barium	ND	mg/L		0.1			5	E200.7	03/06/09 23:29/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	03/11/09 06:16/eli-c
Boron	ND	mg/L	D	0.2			5	E200.7	03/10/09 19:38/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/10/09 05:56/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/10/09 05:56/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/10/09 05:56/eli-c
Iron	0.09	mg/L		0.03			1	E200.8	03/10/09 05:56/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/10/09 05:56/eli-c
Manganese	0.05	mg/L		0.01			1	E200.8	03/06/09 04:01/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	02/27/09 16:21/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	03/11/09 06:16/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/10/09 05:56/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	03/10/09 05:56/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/10/09 05:56/eli-c
Strontium	1.1	mg/L		0.1			1	E200.8	03/10/09 05:56/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	03/10/09 05:56/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	03/10/09 05:56/eli-c
Zinc	0.03	mg/L		0.01			1	E200.8	03/10/09 05:56/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.29	%					1	A1030 E	04/14/09 00:00/ADM
Anions	12.6	meq/L					1	A1030 E	04/14/09 00:00/ADM
Cations	13.0	meq/L					1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	845	mg/L					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-012
Client Sample ID: DewBurd GW697

Report Date: 04/14/09
Collection Date: 02/24/09 16:45
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/	DF	Method	Analysis Date / By
					QCL			
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-013
 Client Sample ID: DewBurd GW695

Report Date: 04/14/09
 Collection Date: 02/24/09 16:56
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	178	mg/L		5		1	A2320 B	03/03/09 14:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:53/mb
Bicarbonate as HCO3	217	mg/L		5		1	A2320 B	03/03/09 14:53/mb
Calcium	50	mg/L	D	6		5	E200.7	03/06/09 23:42/eli-c
Chloride	12	mg/L		1		1	E300.0	02/26/09 09:08/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	02/26/09 09:08/jmh
Magnesium	17.6	mg/L		0.5		5	E200.7	03/06/09 23:42/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:45/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 09:08/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 09:08/jmh
Potassium	9.8	mg/L		0.5		5	E200.7	03/06/09 23:42/eli-c
Sodium	225	mg/L		0.5		5	E200.7	03/06/09 23:42/eli-c
Sulfate	494	mg/L	D	3		50	E300.0	02/26/09 08:52/jmh
Silica	7.6	mg/L		0.2		5	E200.7	03/06/09 23:42/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1350	umhos/cm		5.0		1	A2510 B	02/27/09 13:11/tb
Oxidation-Reduction Potential	140	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.86	s.u.		0.01		1	A4500-H B	02/27/09 11:12/tb
Sodium Adsorption Ratio (SAR)	7.0	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	910	mg/L		5		1	A2540 C	03/02/09 10:04/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 21:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 21:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 21:47/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 23:42/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 21:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 21:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 21:47/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 23:42/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 21:47/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	03/04/09 21:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 21:47/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 21:47/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 21:47/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 21:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 21:47/eli-c
Uranium	0.0028	mg/L		0.0003		1	E200.8	03/04/09 21:47/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-013
 Client Sample ID: DewBurd GW695

Report Date: 04/14/09
 Collection Date: 02/24/09 16:56
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	03/04/09 21:47/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/04/09 21:47/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/10/09 04:18/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/06/09 14:30/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/09/09 13:39/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	18.7	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Alpha precision (±)	4.1	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Alpha MDC	4.7	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Beta	12.7	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Gross Beta MDC	5.7	pCi/L				1	E900.0	03/12/09 11:11/eli-ca
Lead 210	0.9	pCi/L	U			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	0.16	pCi/L	U			1	E912.0	03/11/09 12:08/eli-c
Polonium 210 MDC	0.74	pCi/L				1	E912.0	03/11/09 12:08/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	E912.0	03/11/09 12:08/eli-c
Radium 226	4.7	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	03/11/09 15:45/eli-c
Thorium 230	-0.02	pCi/L	U			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	1200	pCi/L				1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	180	pCi/L				1	E901.1	03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.1	pCi/L	U			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.25	pCi/L	U			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.48	pCi/L				1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.83	pCi/L				1	E912.0	03/23/09 07:21/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-013
Client Sample ID: DewBurd GW695

Report Date: 04/14/09
Collection Date: 02/24/09 16:56
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.1	pCi/L	U			1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	03/17/09 14:53/eli-c
Thorium 230	0.02	pCi/L	U			1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/14/09 15:06/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - TOTAL								
Radon 222	1600	pCi/L		100		1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	83.2	pCi/L				1	D5072-92	02/28/09 09:50/eli-c

TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/10/09 06:02/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/10/09 06:02/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/06/09 23:47/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/11/09 06:23/eli-c
Boron	ND	mg/L	D	0.2		5	E200.7	03/10/09 19:52/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/10/09 06:02/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/10/09 06:02/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/10/09 06:02/eli-c
Iron	0.23	mg/L		0.03		1	E200.8	03/10/09 06:02/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/10/09 06:02/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	03/06/09 04:07/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	02/27/09 16:24/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/11/09 06:23/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/10/09 06:02/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/10/09 06:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/10/09 06:02/eli-c
Strontium	0.9	mg/L		0.1		1	E200.8	03/10/09 06:02/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/10/09 06:02/eli-c
Uranium	0.0027	mg/L		0.0003		1	E200.8	03/10/09 06:02/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	03/10/09 06:02/eli-c

DATA QUALITY								
A/C Balance (± 5)	-0.610	%				1	A1030 E	04/14/09 00:00/ADM
Anions	14.2	meq/L				1	A1030 E	04/14/09 00:00/ADM
Cations	14.0	meq/L				1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	937	mg/L				1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 48 of 57
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-013
Client Sample ID: DewBurd GW695

Report Date: 04/14/09
Collection Date: 02/24/09 16:56
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/	DF	Method	Analysis Date / By
					QCL			
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.970					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-014
 Client Sample ID: DewBurd GW694

Report Date: 04/14/09
 Collection Date: 02/24/09 17:15
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	206	mg/L		5		1	A2320 B	03/03/09 14:55/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:55/mb
Bicarbonate as HCO3	251	mg/L		5		1	A2320 B	03/03/09 14:55/mb
Calcium	99	mg/L	D	6		5	E200.7	03/06/09 23:51/eli-c
Chloride	9	mg/L		1		1	E300.0	02/26/09 09:41/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	02/26/09 09:41/jmh
Magnesium	35.5	mg/L		0.5		5	E200.7	03/06/09 23:51/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:46/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 09:41/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 09:41/jmh
Potassium	13.6	mg/L		0.5		5	E200.7	03/06/09 23:51/eli-c
Sodium	171	mg/L		0.5		5	E200.7	03/06/09 23:51/eli-c
Sulfate	518	mg/L	D	3		50	E300.0	02/26/09 09:25/jmh
Silica	8.7	mg/L		0.2		5	E200.7	03/06/09 23:51/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1340	umhos/cm		5.0		1	A2510 B	02/27/09 13:13/tb
Oxidation-Reduction Potential	150	mV				1	A2580 B	03/02/09 11:00/jmh
pH	7.55	s.u.		0.01		1	A4500-H B	02/27/09 11:14/tb
Sodium Adsorption Ratio (SAR)	3.7	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	970	mg/L		5		1	A2540 C	03/02/09 10:05/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 22:21/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/04/09 22:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 22:21/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/06/09 23:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 22:21/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 22:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 22:21/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/06/09 23:51/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 22:21/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	03/04/09 22:21/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 22:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 22:21/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 22:21/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 22:21/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 22:21/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	03/04/09 22:21/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-014
Client Sample ID: DewBurd GW694

Report Date: 04/14/09
Collection Date: 02/24/09 17:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL DF		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1	1	E200.8	03/04/09 22:21/eli-c
Zinc	ND	mg/L		0.01	1	E200.8	03/04/09 22:21/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003	1	E200.8	03/10/09 04:22/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001	1	A3114 B	03/06/09 14:36/eli-ce
Selenium-VI	ND	mg/L		0.001	1	A3114 B	03/09/09 13:39/eli-ce
RADIONUCLIDES - DISSOLVED							
Gross Alpha	8.3	pCi/L			1	E900.0	03/12/09 11:11/eli-ce
Gross Alpha precision (±)	3.5	pCi/L			1	E900.0	03/12/09 11:11/eli-ce
Gross Alpha MDC	4.9	pCi/L			1	E900.0	03/12/09 11:11/eli-ce
Gross Beta	10.9	pCi/L			1	E900.0	03/12/09 11:11/eli-ce
Gross Beta precision (±)	3.6	pCi/L			1	E900.0	03/12/09 11:11/eli-ce
Gross Beta MDC	5.7	pCi/L			1	E900.0	03/12/09 11:11/eli-ce
Lead 210	1.3	pCi/L	U		1	E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L			1	E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L			1	E909.0M	03/16/09 09:10/eli-c
Polonium 210	-0.031	pCi/L	U		1	E912.0	03/11/09 12:08/eli-c
Polonium 210 MDC	0.52	pCi/L			1	E912.0	03/11/09 12:08/eli-c
Polonium 210 precision (±)	0.19	pCi/L			1	E912.0	03/11/09 12:08/eli-c
Radium 226	2.2	pCi/L			1	E903.0	03/11/09 17:31/eli-c
Radium 226 precision (±)	0.2	pCi/L			1	E903.0	03/11/09 17:31/eli-c
Thorium 230	0.05	pCi/L	U		1	E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L			1	E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.07	pCi/L			1	E907.0	03/13/09 12:03/eli-c
Gross Gamma	1600	pCi/L			1	E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	230	pCi/L			1	E901.1	03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.2	pCi/L	U		1	E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L			1	E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L			1	E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.31	pCi/L	U		1	E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.38	pCi/L			1	E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.50	pCi/L			1	E912.0	03/23/09 07:21/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-014
 Client Sample ID: DewBurd GW694

Report Date: 04/14/09
 Collection Date: 02/24/09 17:15
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.1	pCi/L	U				1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Thorium 230	-0.09	pCi/L	U				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.4	pCi/L					1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/14/09 15:06/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.									
RADIONUCLIDES - TOTAL									
Radon 222	235	pCi/L		100			1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	66.3	pCi/L					1	D5072-92	02/28/09 09:50/eli-c
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	03/10/09 06:09/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	03/10/09 06:09/eli-c
Barium	ND	mg/L		0.1			5	E200.7	03/06/09 23:56/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	03/11/09 06:43/eli-c
Boron	ND	mg/L	D	0.2			5	E200.7	03/10/09 20:01/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/10/09 06:09/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/10/09 06:09/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/10/09 06:09/eli-c
Iron	0.11	mg/L		0.03			1	E200.8	03/10/09 06:09/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/10/09 06:09/eli-c
Manganese	0.17	mg/L		0.01			1	E200.8	03/06/09 04:14/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	02/27/09 16:26/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	03/11/09 06:43/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/10/09 06:09/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	03/10/09 06:09/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/10/09 06:09/eli-c
Strontium	2.7	mg/L		0.1			1	E200.8	03/10/09 06:09/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	03/10/09 06:09/eli-c
Uranium	0.0005	mg/L		0.0003			1	E200.8	03/10/09 06:09/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	03/10/09 06:09/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.67	%					1	A1030 E	04/14/09 00:00/ADM
Anions	15.2	meq/L					1	A1030 E	04/14/09 00:00/ADM
Cations	15.7	meq/L					1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	994	mg/L					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 52 of 57
 Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-014
Client Sample ID: DewBurd GW694

Report Date: 04/14/09
Collection Date: 02/24/09 17:15
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	0.980						1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
 Project: Edgemont
 Lab ID: R09020293-015
 Client Sample ID: DewBurd GW696

Report Date: 04/14/09
 Collection Date: 02/24/09 17:31
 Date Received: 02/25/09
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B	03/03/09 14:58/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/03/09 14:58/mb
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B	03/03/09 14:58/mb
Calcium	31	mg/L	D	6		5	E200.7	03/07/09 00:00/eli-c
Chloride	12	mg/L		1		1	E300.0	02/26/09 10:30/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	02/26/09 10:30/jmh
Magnesium	10.7	mg/L		0.5		5	E200.7	03/07/09 00:00/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	02/27/09 15:47/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/26/09 10:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/26/09 10:30/jmh
Potassium	10.1	mg/L		0.5		5	E200.7	03/07/09 00:00/eli-c
Sodium	273	mg/L		0.5		5	E200.7	03/07/09 00:00/eli-c
Sulfate	470	mg/L		1		10	E300.0	02/27/09 01:45/jmh
Silica	8.8	mg/L		0.2		5	E200.7	03/07/09 00:00/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1290	umhos/cm		5.0		1	A2510 B	02/27/09 13:14/tb
Oxidation-Reduction Potential	130	mV				1	A2580 B	03/02/09 11:00/jmh
pH	8.08	s.u.		0.01		1	A4500-H B	02/27/09 11:16/tb
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	04/07/09 09:24/ADM
Solids, Total Dissolved TDS @ 180 C	920	mg/L		5		1	A2540 C	03/02/09 10:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	03/04/09 22:28/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/04/09 22:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/04/09 22:28/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/07/09 00:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/04/09 22:28/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/04/09 22:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/04/09 22:28/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/07/09 00:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/04/09 22:28/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	03/04/09 22:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/04/09 22:28/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	03/04/09 22:28/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/04/09 22:28/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/09/09 11:25/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/04/09 22:28/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/04/09 22:28/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/04/09 22:28/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-015
Client Sample ID: DewBurd GW696

Report Date: 04/14/09
Collection Date: 02/24/09 17:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Vanadium	ND	mg/L		0.1		1 E200.8	03/04/09 22:28/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	03/04/09 22:28/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	03/10/09 04:26/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	03/06/09 14:39/eli-ca
Selenium-VI	ND	mg/L		0.001		1 A3114 B	03/26/09 15:17/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	4.3	pCi/L	U			1 E900.0	03/12/09 11:11/eli-ca
Gross Alpha precision (±)	3.2	pCi/L				1 E900.0	03/12/09 11:11/eli-ca
Gross Alpha MDC	4.8	pCi/L				1 E900.0	03/12/09 11:11/eli-ca
Gross Beta	2.0	pCi/L	U			1 E900.0	03/12/09 11:11/eli-ca
Gross Beta precision (±)	3.4	pCi/L				1 E900.0	03/12/09 11:11/eli-ca
Gross Beta MDC	5.7	pCi/L				1 E900.0	03/12/09 11:11/eli-ca
Lead 210	-0.3	pCi/L	U			1 E909.0M	03/16/09 09:10/eli-c
Lead 210 precision (±)	1.6	pCi/L				1 E909.0M	03/16/09 09:10/eli-c
Lead 210 MDC	2.7	pCi/L				1 E909.0M	03/16/09 09:10/eli-c
Polonium 210	-0.094	pCi/L	U			1 E912.0	03/11/09 12:08/eli-c
Polonium 210 MDC	0.72	pCi/L				1 E912.0	03/11/09 12:08/eli-c
Polonium 210 precision (±)	0.25	pCi/L				1 E912.0	03/11/09 12:08/eli-c
Radium 226	1.3	pCi/L				1 E903.0	03/11/09 17:31/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	03/11/09 17:31/eli-c
Thorium 230	0.2	pCi/L				1 E907.0	03/13/09 12:03/eli-c
Thorium 230 MDC	0.1	pCi/L				1 E907.0	03/13/09 12:03/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	03/13/09 12:03/eli-c
Gross Gamma	1000	pCi/L				1 E901.1	03/06/09 09:10/eli-c
Gross Gamma precision (±)	160	pCi/L				1 E901.1	03/06/09 09:10/eli-c
- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.							
RADIONUCLIDES - SUSPENDED							
Lead 210	0.8	pCi/L	U			1 E909.0M	03/11/09 10:11/eli-c
Lead 210 precision (±)	3.4	pCi/L				1 E909.0M	03/11/09 10:11/eli-c
Lead 210 MDC	5.7	pCi/L				1 E909.0M	03/11/09 10:11/eli-c
Polonium 210	0.045	pCi/L	U			1 E912.0	03/23/09 07:21/eli-c
Polonium 210 precision (±)	0.36	pCi/L				1 E912.0	03/23/09 07:21/eli-c
Polonium 210 MDC	0.80	pCi/L				1 E912.0	03/23/09 07:21/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-015
Client Sample ID: DewBurd GW696

Report Date: 04/14/09
Collection Date: 02/24/09 17:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Radium 226	-0.2	pCi/L	U				1	E903.0	03/17/09 14:53/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	03/17/09 14:53/eli-c
Thorium 230	-0.04	pCi/L	U				1	E907.0	03/14/09 15:06/eli-c
Thorium 230 MDC	0.3	pCi/L					1	E907.0	03/14/09 15:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	03/14/09 15:06/eli-c

- The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agent prior to using these results for compliance purposes.

RADIONUCLIDES - TOTAL									
Radon 222	234	pCi/L		100			1	D5072-92	02/28/09 09:50/eli-c
Radon 222 precision (±)	66.2	pCi/L					1	D5072-92	02/28/09 09:50/eli-c

TOTAL METALS ANALYSES

Antimony	ND	mg/L		0.003			1	E200.8	03/10/09 06:15/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	03/10/09 06:15/eli-c
Barium	ND	mg/L		0.1			5	E200.7	03/07/09 00:05/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	03/11/09 06:50/eli-c
Boron	ND	mg/L	D	0.2			5	E200.7	03/10/09 20:06/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/10/09 06:15/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/10/09 06:15/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/10/09 06:15/eli-c
Iron	0.10	mg/L		0.03			1	E200.8	03/10/09 06:15/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/10/09 06:15/eli-c
Manganese	0.07	mg/L		0.01			1	E200.8	03/06/09 04:20/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	02/27/09 16:33/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	03/11/09 06:50/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/10/09 06:15/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	03/10/09 06:15/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/10/09 06:15/eli-c
Strontium	0.8	mg/L		0.1			1	E200.8	03/10/09 06:15/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	03/10/09 06:15/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	03/10/09 06:15/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	03/10/09 06:15/eli-c

DATA QUALITY

A/C Balance (± 5)	2.91	%					1	A1030 E	04/14/09 00:00/ADM
Anions	13.8	meq/L					1	A1030 E	04/14/09 00:00/ADM
Cations	14.6	meq/L					1	A1030 E	04/14/09 00:00/ADM
Solids, Total Dissolved Calculated	941	mg/L					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R09020293-015
Client Sample ID: DewBurd GW696

Report Date: 04/14/09
Collection Date: 02/24/09 17:31
Date Received: 02/25/09
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/	DF	Method	Analysis Date / By
					QCL			
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.980					1	A1030 E	04/14/09 00:00/ADM

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/14/09
 Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 090303A-ALK-SEL-W		
Sample ID: LCS1_090303A Alkalinity, Total as CaCO3	Laboratory Control Sample 964	mg/L	5.0	96	90	110			03/03/09 13:13
Sample ID: MBLK1_090303A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						03/03/09 13:15
Sample ID: R09020281-005BMS Alkalinity, Total as CaCO3	Sample Matrix Spike 356	mg/L	5.0	102	80	120			03/03/09 13:58
Sample ID: R09020281-005BMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 366	mg/L	5.0	111	80	120	2.8	10	03/03/09 14:02
Sample ID: R09020293-009AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 240	mg/L	5.0	96	80	120			03/03/09 14:41
Sample ID: R09020293-009AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 250	mg/L	5.0	106	80	120	4.1	10	03/03/09 14:43
Sample ID: R09020294-004AMS Alkalinity, Total as CaCO3	Sample Matrix Spike 118	mg/L	5.0	89	80	120			03/03/09 15:26
Sample ID: R09020294-004AMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 118	mg/L	5.0	89	80	120		10	03/03/09 15:31

Method: A2510 B							Batch: 090227_1_COND-PROBE-W		
Sample ID: LCS_COND-1_090227 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			02/27/09 12:30
Sample ID: LCS1-1_090227 Conductivity @ 25 C	Laboratory Control Sample 151	umhos/cm	5.0	101	90	110			02/27/09 12:31
Sample ID: LCS2-1_090227 Conductivity @ 25 C	Laboratory Control Sample 4960	umhos/cm	5.0	99	90	110			02/27/09 12:33
Sample ID: MBLK-1_090227 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						02/27/09 12:37
Sample ID: R09020293-009ADUP Conductivity @ 25 C	Sample Duplicate 992	umhos/cm	5.0				2.1	10	02/27/09 13:00
Sample ID: R09020293-015ADUP Conductivity @ 25 C	Sample Duplicate 1300	umhos/cm	5.0				0.8	10	02/27/09 13:17

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 04/14/09

Project: Edgemont

Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 090302A-SLDS-TDS-W		
Sample ID: LCS1_090302A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	111	90	110			S
Sample ID: MBLK1_090302A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	5						
Sample ID: R09020293-008AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	111	80	120			
Sample ID: R09020293-008AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	5.0	111	80	120	0	10	
Sample ID: R09020294-003AMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	108	80	120			
Sample ID: R09020294-003AMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	113	80	120	0.7	10	
Method: A2580 B							Batch: 090302-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample								
Oxidation-Reduction Potential	480	mV		101	95	105			
Method: A3114 B							Batch: C_SE3114-090306IV		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 03020	Laboratory Control Sample								
Selenium-IV	0.049	mg/L	0.0010	98	90	110			
Sample ID: R09020293-001E	Sample Matrix Spike								
Selenium-IV	0.049	mg/L	0.0010	98	85	115			
Sample ID: R09020293-001E	Sample Matrix Spike Duplicate								
Selenium-IV	0.046	mg/L	0.0010	92	85	115	6.8	10	
Sample ID: R09020293-010E	Sample Matrix Spike								
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: R09020293-010E	Sample Matrix Spike Duplicate								
Selenium-IV	0.044	mg/L	0.0010	88	85	115	4.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/14/09
 Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 090227_1_PH-W		
Sample ID: LCS_pH-1_090227	Laboratory Control Sample				Run: PH_COND2-R_090227B		02/27/09 10:36		
pH	6.87	s.u.	0.010	100	98.55	101.45			
Sample ID: R09020293-004ADUP	Sample Duplicate				Run: PH_COND2-R_090227B		02/27/09 10:57		
pH	6.79	s.u.	0.010				0.4	1.25	
Sample ID: R09020293-014ADUP	Sample Duplicate				Run: PH_COND2-R_090227B		02/27/09 11:15		
pH	7.56	s.u.	0.010				0.1	1.25	
Method: A4500-NH3 G							Batch: A2009-02-27_2_NH3_01		
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_090227A		02/27/09 10:50		
Nitrogen, Ammonia as N	0.02	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_090227A		02/27/09 10:52		
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_090227A		02/27/09 11:04		
Nitrogen, Ammonia as N	0.22	mg/L	0.10	88	90	110			S
Sample ID: R09020293-003BMS	Sample Matrix Spike				Run: TECHAA2-R_090227A		02/27/09 15:28		
Nitrogen, Ammonia as N	0.62	mg/L	0.10	87	80	120			
Sample ID: R09020293-003BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_090227A		02/27/09 15:29		
Nitrogen, Ammonia as N	0.63	mg/L	0.10	92	80	120	2.1	10	
Sample ID: R09020293-011BMS	Sample Matrix Spike				Run: TECHAA2-R_090227A		02/27/09 15:42		
Nitrogen, Ammonia as N	0.31	mg/L	0.10	101	80	120			
Sample ID: R09020293-011BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_090227A		02/27/09 15:43		
Nitrogen, Ammonia as N	0.33	mg/L	0.10	105	80	120	3.4	10	
Sample ID: R09020314-001CMS	Sample Matrix Spike				Run: TECHAA2-R_090227A		02/27/09 16:10		
Nitrogen, Ammonia as N	0.20	mg/L	0.10	80	80	120			
Sample ID: R09020314-001CMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_090227A		02/27/09 16:11		
Nitrogen, Ammonia as N	0.18	mg/L	0.10	72	80	120	11	10	SR

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/14/09
 Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92							Batch: C_R115409		
Sample ID: R09020293-015G	Sample Duplicate					Run: SUB-C115409		02/28/09 09:50	
Radon 222	234	pCi/L	100				0	30	
Radon 222 precision (±)	66.2	pCi/L							
Sample ID: MB-R115409	Method Blank					Run: SUB-C115409		02/28/09 09:50	
Radon 222	10	pCi/L							U
Radon 222 precision (±)	30	pCi/L							
Sample ID: LCS-R115409	Laboratory Control Sample					Run: SUB-C115409		02/28/09 09:50	
Radon 222	301	pCi/L	100	95	70	130			
Method: E200.7							Batch: C_21707		
Sample ID: MB-21707	Method Blank					Run: SUB-C115709		03/10/09 16:32	
Boron	ND	mg/L	0.04						
Manganese	ND	mg/L	0.02						
Sample ID: LCS3-21707	Laboratory Control Sample					Run: SUB-C115709		03/10/09 16:36	
Boron	0.509	mg/L	0.10	102	85	115			
Manganese	2.56	mg/L	0.020	102	85	115			
Sample ID: C09030079-003CMS3	Sample Matrix Spike					Run: SUB-C115709		03/10/09 17:08	
Boron	0.547	mg/L	0.10	109	70	130			
Manganese	3.00	mg/L	0.020	107	70	130			
Sample ID: C09030079-003CMSD3	Sample Matrix Spike Duplicate					Run: SUB-C115709		03/10/09 17:12	
Boron	0.557	mg/L	0.10	111	70	130	1.8	20	
Manganese	3.08	mg/L	0.020	110	70	130	2.6	20	

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/14/09
 Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R115623		
Sample ID: C09020945-001BMS	Sample Matrix Spike		Run: SUB-C115623				03/06/09 21:01		
Barium	0.561	mg/L	0.10	97	70	130			
Boron	0.518	mg/L	0.10	96	70	130			
Iron	0.561	mg/L	0.030	93	70	130			
Silicon	3.97	mg/L	0.10		70	130			A
Strontium	0.711	mg/L	0.10	110	70	130			
Calcium	67.4	mg/L	1.2	95	70	130			
Magnesium	56.9	mg/L	1.0	102	70	130			
Potassium	56.8	mg/L	1.0	95	70	130			
Sodium	83.8	mg/L	1.0	96	70	130			
Silica	8.49	mg/L	0.21		70	130			A
Sample ID: C09020945-001BMSD	Sample Matrix Spike Duplicate		Run: SUB-C115623				03/06/09 21:05		
Barium	0.551	mg/L	0.10	95	70	130	1.7	20	
Boron	0.509	mg/L	0.10	94	70	130	1.7	20	
Iron	0.551	mg/L	0.030	91	70	130	1.7	20	
Silicon	3.94	mg/L	0.10		70	130	0.7	20	A
Strontium	0.690	mg/L	0.10	105	70	130	3	20	
Calcium	65.7	mg/L	1.2	92	70	130	2.5	20	
Magnesium	54.1	mg/L	1.0	97	70	130	5.1	20	
Potassium	53.7	mg/L	1.0	89	70	130	5.6	20	
Sodium	80.3	mg/L	1.0	89	70	130	4.3	20	
Silica	8.43	mg/L	0.21		70	130	0.7	20	A
Sample ID: C09020974-006CMS	Sample Matrix Spike		Run: SUB-C115623				03/06/09 22:08		
Barium	2.40	mg/L	0.10	94	70	130			
Boron	2.36	mg/L	0.10	91	70	130			
Iron	2.33	mg/L	0.030	90	70	130			
Silicon	5.18	mg/L	0.10	65	70	130			S
Strontium	3.66	mg/L	0.10	96	70	130			
Calcium	283	mg/L	6.2	91	70	130			
Magnesium	257	mg/L	1.0	92	70	130			
Potassium	238	mg/L	1.0	89	70	130			
Sodium	405	mg/L	1.0	88	70	130			
Silica	11.1	mg/L	0.21	65	70	130			S
Sample ID: C09020974-006CMSD	Sample Matrix Spike Duplicate		Run: SUB-C115623				03/06/09 22:12		
Barium	2.45	mg/L	0.10	96	70	130	2	20	
Boron	2.43	mg/L	0.10	93	70	130	2.7	20	
Iron	2.39	mg/L	0.030	93	70	130	2.8	20	
Silicon	5.30	mg/L	0.10	70	70	130	2.4	20	
Strontium	3.77	mg/L	0.10	100	70	130	2.9	20	
Calcium	288	mg/L	6.2	93	70	130	1.8	20	
Magnesium	258	mg/L	1.0	93	70	130	0.3	20	
Potassium	237	mg/L	1.0	88	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R115623		
Sample ID: C09020974-006CMSD	Sample Matrix Spike Duplicate			Run: SUB-C115623			03/06/09 22:12		
Sodium	406	mg/L	1.0	88	70	130	0.3	20	
Silica	11.4	mg/L	0.21	70	70	130	2.4	20	
Sample ID: R09020293-012D	Sample Matrix Spike			Run: SUB-C115623			03/06/09 23:33		
Barium	2.46	mg/L	0.10	97	70	130			
Boron	2.44	mg/L	0.18	96	70	130			
Iron	2.47	mg/L	0.11	97	70	130			
Silicon	5.52	mg/L	0.11	67	70	130			S
Strontium	3.52	mg/L	0.11	95	70	130			
Calcium	291	mg/L	1.1	93	70	130			
Magnesium	250	mg/L	1.2	92	70	130			
Potassium	233	mg/L	1.0	88	70	130			
Sodium	418	mg/L	1.1	86	70	130			
Silica	11.8	mg/L	0.23	144	70	130			S
Sample ID: R09020293-012D	Sample Matrix Spike Duplicate			Run: SUB-C115623			03/06/09 23:38		
Barium	2.20	mg/L	0.10	86	70	130	11	20	
Boron	2.19	mg/L	0.18	86	70	130	11	20	
Iron	2.18	mg/L	0.11	86	70	130	12	20	
Silicon	4.91	mg/L	0.11	43	70	130	12	20	S
Strontium	3.30	mg/L	0.11	86	70	130	6.5	20	
Calcium	265	mg/L	1.1	83	70	130	9.3	20	
Magnesium	237	mg/L	1.2	86	70	130	5.7	20	
Potassium	233	mg/L	1.0	88	70	130	0.1	20	
Sodium	416	mg/L	1.1	85	70	130	0.5	20	
Silica	10.5	mg/L	0.23	92	70	130	12	20	
Method: E200.7							Batch: C_R115709		
Sample ID: C09020884-001BMS	Sample Matrix Spike			Run: SUB-C115709			03/10/09 18:34		
Boron	3.15	mg/L	0.10	100	70	130			
Sample ID: C09020884-001BMSD	Sample Matrix Spike Duplicate			Run: SUB-C115709			03/10/09 18:39		
Boron	3.09	mg/L	0.10	97	70	130	2.1	20	
Sample ID: R09020293-012D	Sample Matrix Spike			Run: SUB-C115709			03/10/09 19:43		
Boron	2.49	mg/L	0.18	99	70	130			
Sample ID: R09020293-012D	Sample Matrix Spike Duplicate			Run: SUB-C115709			03/10/09 19:48		
Boron	2.47	mg/L	0.18	99	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7_8							Batch: C_21713		
Sample ID: MB-21713	Method Blank				Run: SUB-C115669		03/10/09 00:42		
Uranium	8E-05	mg/L	1E-05						
Sample ID: LCS2-21713	Laboratory Control Sample				Run: SUB-C115669		03/10/09 00:47		
Uranium	0.0800	mg/L	0.00030	80	75	125			
Method: E200.7_8							Batch: C_R115623		
Sample ID: LRB	Method Blank				Run: SUB-C115623		03/06/09 12:28		
Barium	ND	mg/L	0.002						
Boron	0.02	mg/L	0.006						
Iron	0.06	mg/L	0.0004						
Silicon	0.004	mg/L	0.003						
Strontium	0.002	mg/L	0.002						
Calcium	0.4	mg/L	0.02						
Magnesium	0.5	mg/L	0.01						
Potassium	0.1	mg/L	0.005						
Sodium	0.01	mg/L	0.006						
Silica	0.009	mg/L	0.005						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C115623		03/06/09 12:33		
Barium	2.53	mg/L	0.10	101	80	120			
Boron	2.55	mg/L	0.10	101	80	120			
Iron	2.50	mg/L	0.030	97	80	120			
Silicon	2.57	mg/L	0.0025	103	80	120			
Strontium	2.47	mg/L	0.10	99	80	120			
Calcium	25.0	mg/L	0.50	98	80	120			
Magnesium	24.9	mg/L	0.50	98	80	120			
Potassium	24.4	mg/L	0.50	97	80	120			
Sodium	25.1	mg/L	0.50	100	80	120			
Silica	5.50	mg/L	0.0054	103	80	120			
Method: E200.7_8							Batch: C_R115709		
Sample ID: LRB	Method Blank				Run: SUB-C115709		03/10/09 14:55		
Boron	0.02	mg/L	0.006						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C115709		03/10/09 14:59		
Boron	2.55	mg/L	0.10	101	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/14/09
 Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_21707		
Sample ID: MB-21707	Method Blank		Run: SUB-C115667				03/10/09 03:59		
Antimony	0.0008	mg/L	0.0004						
Arsenic	0.002	mg/L	4E-05						
Barium	ND	mg/L	0.0007						
Beryllium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	5E-05						
Chromium	0.0005	mg/L	8E-05						
Copper	0.0002	mg/L	0.0001						
Iron	0.003	mg/L	0.002						
Lead	ND	mg/L	9E-05						
Manganese	0.00010	mg/L	4E-05						
Molybdenum	ND	mg/L	0.0001						
Nickel	ND	mg/L	6E-05						
Selenium	0.0001	mg/L	7E-05						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	0.0002						
Thallium	ND	mg/L	0.0003						
Uranium	ND	mg/L	7E-05						
Zinc	0.002	mg/L	0.0009						
Sample ID: LCS3-21707	Laboratory Control Sample		Run: SUB-C115667				03/10/09 04:06		
Antimony	0.575	mg/L	0.050	115	85	115			
Arsenic	0.495	mg/L	0.0010	99	85	115			
Barium	0.509	mg/L	0.10	102	85	115			
Beryllium	0.213	mg/L	0.010	85	85	115			
Cadmium	0.258	mg/L	0.010	103	85	115			
Chromium	0.507	mg/L	0.050	101	85	115			
Copper	0.524	mg/L	0.010	105	85	115			
Iron	2.45	mg/L	0.030	98	85	115			
Lead	0.537	mg/L	0.050	107	85	115			
Manganese	2.35	mg/L	0.010	94	85	115			
Molybdenum	0.466	mg/L	0.10	93	85	115			
Nickel	0.486	mg/L	0.050	97	85	115			
Selenium	0.499	mg/L	0.0010	100	85	115			
Silver	0.0474	mg/L	0.010	95	85	115			
Strontium	0.507	mg/L	0.10	101	85	115			
Thallium	0.530	mg/L	0.10	106	85	115			
Uranium	0.528	mg/L	0.00030	106	85	115			
Zinc	0.492	mg/L	0.010	98	85	115			
Sample ID: C09030079-003CMS3	Sample Matrix Spike		Run: SUB-C115667				03/10/09 05:30		
Antimony	0.586	mg/L	0.050	117	70	130			
Arsenic	0.494	mg/L	0.0010	98	70	130			
Barium	0.712	mg/L	0.10	117	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/14/09
 Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_21707		
Sample ID: C09030079-003CMS3	Sample Matrix Spike		Run: SUB-C115667				03/10/09 05:30		
Beryllium	0.178	mg/L	0.010	71	70	130			
Cadmium	0.259	mg/L	0.010	103	70	130			
Chromium	0.513	mg/L	0.050	101	70	130			
Copper	0.521	mg/L	0.010	103	70	130			
Iron	6.01	mg/L	0.030	112	70	130			
Lead	0.545	mg/L	0.050	108	70	130			
Manganese	2.54	mg/L	0.010	90	70	130			
Molybdenum	0.453	mg/L	0.10	90	70	130			
Nickel	0.485	mg/L	0.050	96	70	130			
Selenium	0.479	mg/L	0.0010	95	70	130			
Silver	0.0471	mg/L	0.010	94	70	130			
Strontium	0.816	mg/L	0.10	101	70	130			
Thallium	0.533	mg/L	0.10	107	70	130			
Uranium	0.538	mg/L	0.00030	106	70	130			
Zinc	0.495	mg/L	0.010	96	70	130			
Sample ID: C09030079-003CMS3	Sample Matrix Spike Duplicate		Run: SUB-C115667				03/10/09 05:36		
Antimony	0.586	mg/L	0.050	117	70	130	0	20	
Arsenic	0.494	mg/L	0.0010	98	70	130	0	20	
Barium	0.714	mg/L	0.10	117	70	130	0.2	20	
Beryllium	0.172	mg/L	0.010	69	70	130	3.7	20	S
Cadmium	0.260	mg/L	0.010	104	70	130	0.6	20	
Chromium	0.502	mg/L	0.050	99	70	130	2.1	20	
Copper	0.519	mg/L	0.010	103	70	130	0.4	20	
Iron	5.93	mg/L	0.030	109	70	130	1.4	20	
Lead	0.548	mg/L	0.050	109	70	130	0.6	20	
Manganese	2.52	mg/L	0.010	89	70	130	0.6	20	
Molybdenum	0.453	mg/L	0.10	90	70	130	0	20	
Nickel	0.484	mg/L	0.050	96	70	130	0.2	20	
Selenium	0.485	mg/L	0.0010	97	70	130	1.4	20	
Silver	0.0478	mg/L	0.010	96	70	130	1.3	20	
Strontium	0.818	mg/L	0.10	102	70	130	0.2	20	
Thallium	0.538	mg/L	0.10	108	70	130	0.9	20	
Uranium	0.547	mg/L	0.00030	108	70	130	1.7	20	
Zinc	0.493	mg/L	0.010	96	70	130	0.4	20	
Sample ID: MB-21707	Method Blank		Run: SUB-C115926				03/16/09 22:22		
Beryllium	ND	mg/L	6E-05						
Manganese	ND	mg/L	0.0001						
Molybdenum	0.0001	mg/L	9E-05						
Sample ID: LCS3-21707	Laboratory Control Sample		Run: SUB-C115926				03/16/09 22:28		
Beryllium	0.297	mg/L	0.010	119	85	115			S
Manganese	2.48	mg/L	0.010	99	85	115			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_21707		
Sample ID: LCS3-21707	Laboratory Control Sample			Run: SUB-C115926			03/16/09 22:28		
Molybdenum	0.529	mg/L	0.10	106	85	115			
- Response for Be is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.									
Sample ID: C09030079-003CMS3	Sample Matrix Spike			Run: SUB-C115926			03/16/09 23:42		
Beryllium	0.281	mg/L	0.010	112	70	130			
Manganese	2.73	mg/L	0.010	97	70	130			
Molybdenum	0.531	mg/L	0.10	106	70	130			
Sample ID: C09030079-003CMSD3	Sample Matrix Spike Duplicate			Run: SUB-C115926			03/16/09 23:49		
Beryllium	0.276	mg/L	0.010	110	70	130	1.9	20	
Manganese	2.72	mg/L	0.010	97	70	130	0.6	20	
Molybdenum	0.531	mg/L	0.10	106	70	130	0.1	20	
Method: E200.8							Batch: C_21713		
Sample ID: R09020293-015I	Post Digestion Spike			Run: SUB-C115669			03/10/09 04:30		
Uranium	0.0118	mg/L	0.00030	94	70	130			
Sample ID: R09020293-015I	Post Digestion Spike Duplicate			Run: SUB-C115669			03/10/09 04:34		
Uranium	0.0120	mg/L	0.00030	96	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 04/14/09

Project: Edgemont

Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R115500		
Sample ID: LRB	Method Blank		Run: SUB-C115500				03/04/09 13:17		
Aluminum	ND	mg/L	0.002						
Arsenic	ND	mg/L	0.0003						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	ND	mg/L	4E-05						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	4E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Silver	ND	mg/L	2E-05						
Thorium 232	ND	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Vanadium	ND	mg/L	9E-05						
Zinc	ND	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C115500				03/04/09 13:24		
Aluminum	0.0504	mg/L	0.0022	101	85	115			
Arsenic	0.0522	mg/L	0.0010	104	85	115			
Barium	0.0516	mg/L	0.0010	103	85	115			
Cadmium	0.0514	mg/L	0.0010	103	85	115			
Chromium	0.0512	mg/L	0.0010	102	85	115			
Copper	0.0468	mg/L	0.0010	94	85	115			
Lead	0.0514	mg/L	0.0010	103	85	115			
Manganese	0.0512	mg/L	0.0010	102	85	115			
Mercury	0.00513	mg/L	0.0010	103	85	115			
Molybdenum	0.0508	mg/L	0.0010	102	85	115			
Nickel	0.0501	mg/L	0.0010	100	85	115			
Silver	0.0215	mg/L	0.0010	108	85	115			
Thorium 232	0.0493	mg/L	0.0010	99	85	115			
Uranium	0.0496	mg/L	0.00030	99	85	115			
Vanadium	0.0514	mg/L	0.0010	103	85	115			
Zinc	0.0539	mg/L	0.0010	108	85	115			
Sample ID: C09020974-009CMS4	Post Digestion Spike		Run: SUB-C115500				03/04/09 21:06		
Aluminum	0.0534	mg/L	0.10	107	70	130			
Arsenic	0.0666	mg/L	0.0010	110	70	130			
Barium	0.0688	mg/L	0.10	114	70	130			
Cadmium	0.0551	mg/L	0.010	110	70	130			
Chromium	0.0531	mg/L	0.050	106	70	130			
Copper	0.0477	mg/L	0.010	95	70	130			
Lead	0.0557	mg/L	0.050	111	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/14/09
 Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R115500		
Sample ID: C09020974-009CMS4	Post Digestion Spike			Run: SUB-C115500			03/04/09 21:06		
Manganese	0.120	mg/L	0.010	106	70	130			
Mercury	0.00538	mg/L	0.0010	108	70	130			
Molybdenum	0.0567	mg/L	0.10	111	70	130			
Nickel	0.0505	mg/L	0.050	101	70	130			
Silver	0.0118	mg/L	0.010	59	70	130			S
Thorium 232	0.0567	mg/L	0.0010	113	70	130			
Uranium	0.0587	mg/L	0.00030	112	70	130			
Vanadium	0.0551	mg/L	0.10	110	70	130			
Zinc	0.0556	mg/L	0.010	111	70	130			
Sample ID: C09020974-009CMSD4	Post Digestion Spike Duplicate			Run: SUB-C115500			03/04/09 21:13		
Aluminum	0.0514	mg/L	0.10	103	70	130		20	
Arsenic	0.0666	mg/L	0.0010	110	70	130	0	20	
Barium	0.0686	mg/L	0.10	114	70	130		20	
Cadmium	0.0546	mg/L	0.010	109	70	130	0.9	20	
Chromium	0.0530	mg/L	0.050	106	70	130	0.1	20	
Copper	0.0474	mg/L	0.010	95	70	130	0.6	20	
Lead	0.0560	mg/L	0.050	112	70	130	0.7	20	
Manganese	0.121	mg/L	0.010	107	70	130	0.6	20	
Mercury	0.00547	mg/L	0.0010	109	70	130	1.7	20	
Molybdenum	0.0563	mg/L	0.10	110	70	130		20	
Nickel	0.0506	mg/L	0.050	101	70	130	0.2	20	
Silver	0.0153	mg/L	0.010	76	70	130	26	20	R
Thorium 232	0.0571	mg/L	0.0010	114	70	130	0.7	20	
Uranium	0.0590	mg/L	0.00030	113	70	130	0.6	20	
Vanadium	0.0550	mg/L	0.10	110	70	130		20	
Zinc	0.0553	mg/L	0.010	111	70	130	0.5	20	
Sample ID: C09020995-014DMS4	Post Digestion Spike			Run: SUB-C115500			03/04/09 23:01		
Aluminum	0.119	mg/L	0.10	107	70	130			
Arsenic	0.0591	mg/L	0.0010	111	70	130			
Barium	0.103	mg/L	0.10	113	70	130			
Cadmium	0.0542	mg/L	0.010	108	70	130			
Chromium	0.0523	mg/L	0.050	104	70	130			
Copper	0.0484	mg/L	0.010	97	70	130			
Lead	0.0565	mg/L	0.050	111	70	130			
Manganese	0.0550	mg/L	0.010	104	70	130			
Mercury	0.00526	mg/L	0.0010	105	70	130			
Molybdenum	0.0605	mg/L	0.10	111	70	130			
Nickel	0.0586	mg/L	0.050	101	70	130			
Silver	0.0147	mg/L	0.010	73	70	130			
Thorium 232	0.0567	mg/L	0.0010	113	70	130			
Uranium	0.150	mg/L	0.00030	114	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/14/09
 Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R115500		
Sample ID: C09020995-014DMS4	Post Digestion Spike				Run: SUB-C115500		03/04/09 23:01		
Vanadium	0.0623	mg/L	0.10	107	70	130			
Zinc	0.0788	mg/L	0.010	113	70	130			
Sample ID: C09020995-014DMSD4	Post Digestion Spike Duplicate				Run: SUB-C115500		03/04/09 23:08		
Aluminum	0.120	mg/L	0.10	108	70	130	0.7	20	
Arsenic	0.0582	mg/L	0.0010	110	70	130	1.5	20	
Barium	0.103	mg/L	0.10	113	70	130	0.3	20	
Cadmium	0.0546	mg/L	0.010	109	70	130	0.8	20	
Chromium	0.0522	mg/L	0.050	104	70	130	0.3	20	
Copper	0.0475	mg/L	0.010	95	70	130	1.7	20	
Lead	0.0564	mg/L	0.050	111	70	130	0.2	20	
Manganese	0.0545	mg/L	0.010	104	70	130	0.8	20	
Mercury	0.00532	mg/L	0.0010	106	70	130	1.1	20	
Molybdenum	0.0608	mg/L	0.10	111	70	130		20	
Nickel	0.0572	mg/L	0.050	98	70	130	2.4	20	
Silver	0.0153	mg/L	0.010	76	70	130	3.7	20	
Thorium 232	0.0569	mg/L	0.0010	114	70	130	0.4	20	
Uranium	0.150	mg/L	0.00030	115	70	130	0.3	20	
Vanadium	0.0621	mg/L	0.10	107	70	130		20	
Zinc	0.0767	mg/L	0.010	108	70	130	2.7	20	
Sample ID: C09030090-004AMS	Sample Matrix Spike				Run: SUB-C115500		03/04/09 16:22		
Uranium	0.053	mg/L	0.0010	99	70	130			
Sample ID: C09030090-004AMSD	Sample Matrix Spike Duplicate				Run: SUB-C115500		03/04/09 16:29		
Uranium	0.053	mg/L	0.0010	99	70	130	0.1	20	
Method: E200.8							Batch: C_R115550		
Sample ID: LRB	Method Blank				Run: SUB-C115550		03/06/09 00:41		
Manganese	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C115550		03/06/09 00:47		
Manganese	0.0479	mg/L	0.0010	96	85	115			
Sample ID: R09020293-015D	Post Digestion Spike				Run: SUB-C115550		03/06/09 04:52		
Manganese	0.129	mg/L	0.010	123	70	130			
Silver	0.0175	mg/L	0.010	87	70	130			
Sample ID: R09020293-015D	Post Digestion Spike Duplicate				Run: SUB-C115550		03/06/09 04:59		
Manganese	0.126	mg/L	0.010	117	70	130	2.3	20	
Silver	0.0174	mg/L	0.010	87	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R115667		
Sample ID: LRB	Method Blank		Run: SUB-C115667			03/09/09 12:22			
Antimony	ND	mg/L	0.0006						
Arsenic	ND	mg/L	5E-05						
Beryllium	ND	mg/L	6E-05						
Boron	0.0005	mg/L	0.0004						
Cadmium	ND	mg/L	4E-05						
Chromium	ND	mg/L	4E-05						
Copper	ND	mg/L	7E-05						
Iron	ND	mg/L	0.0006						
Lead	ND	mg/L	2E-05						
Molybdenum	ND	mg/L	0.0001						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	3E-05						
Silver	ND	mg/L	4E-05						
Strontium	ND	mg/L	3E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0002						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C115667			03/09/09 12:29			
Antimony	0.0481	mg/L	0.0010	96	85	115			
Arsenic	0.0491	mg/L	0.0010	98	85	115			
Beryllium	0.0478	mg/L	0.0010	96	85	115			
Boron	0.0481	mg/L	0.0010	95	85	115			
Cadmium	0.0489	mg/L	0.0010	98	85	115			
Chromium	0.0490	mg/L	0.0010	98	85	115			
Copper	0.0495	mg/L	0.0010	99	85	115			
Iron	1.27	mg/L	0.0010	101	85	115			
Lead	0.0489	mg/L	0.0010	98	85	115			
Molybdenum	0.0485	mg/L	0.0010	97	85	115			
Nickel	0.0496	mg/L	0.0010	99	85	115			
Selenium	0.0497	mg/L	0.0010	99	85	115			
Silver	0.0194	mg/L	0.0010	97	85	115			
Strontium	0.0462	mg/L	0.0010	92	85	115			
Thallium	0.0490	mg/L	0.0010	98	85	115			
Uranium	0.0461	mg/L	0.00030	92	85	115			
Zinc	0.0521	mg/L	0.0010	104	85	115			
Sample ID: R09020293-009D	Post Digestion Spike		Run: SUB-C115667			03/09/09 14:27			
Antimony	0.0511	mg/L	0.050	102	70	130			
Arsenic	0.0728	mg/L	0.0010	101	70	130			
Beryllium	0.0454	mg/L	0.010	91	70	130			
Boron	0.110	mg/L	0.10	88	70	130			
Cadmium	0.0497	mg/L	0.010	99	70	130			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: RESPEC Inc

Report Date: 04/14/09

Project: Edgemont

Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R115667		
Sample ID: R09020293-009D	Post Digestion Spike			Run: SUB-C115667			03/09/09 14:27		
Chromium	0.0494	mg/L	0.050	99	70	130			
Copper	0.0488	mg/L	0.010	98	70	130			
Iron	2.59	mg/L	0.030	103	70	130			
Lead	0.0498	mg/L	0.050	100	70	130			
Molybdenum	0.0487	mg/L	0.10	95	70	130			
Nickel	0.0492	mg/L	0.050	98	70	130			
Selenium	0.0532	mg/L	0.0010	106	70	130			
Silver	0.00800	mg/L	0.010	40	70	130			S
Strontium	1.36	mg/L	0.10		70	130			A
Thallium	0.0498	mg/L	0.10	100	70	130			
Uranium	0.0506	mg/L	0.00030	96	70	130			
Zinc	0.0520	mg/L	0.010	101	70	130			
Sample ID: R09020293-009D	Post Digestion Spike Duplicate			Run: SUB-C115667			03/09/09 14:33		
Antimony	0.0519	mg/L	0.050	104	70	130	1.6	20	
Arsenic	0.0731	mg/L	0.0010	102	70	130	0.5	20	
Beryllium	0.0462	mg/L	0.010	92	70	130	1.9	20	
Boron	0.112	mg/L	0.10	91	70	130	1.5	20	
Cadmium	0.0500	mg/L	0.010	100	70	130	0.7	20	
Chromium	0.0494	mg/L	0.050	99	70	130		20	
Copper	0.0489	mg/L	0.010	98	70	130	0.2	20	
Iron	2.57	mg/L	0.030	102	70	130	0.8	20	
Lead	0.0506	mg/L	0.050	101	70	130		20	
Molybdenum	0.0491	mg/L	0.10	96	70	130		20	
Nickel	0.0492	mg/L	0.050	98	70	130		20	
Selenium	0.0535	mg/L	0.0010	107	70	130	0.6	20	
Silver	0.00768	mg/L	0.010	38	70	130		20	S
Strontium	1.36	mg/L	0.10		70	130	0.5	20	A
Thallium	0.0504	mg/L	0.10	101	70	130		20	
Uranium	0.0509	mg/L	0.00030	97	70	130	0.6	20	
Zinc	0.0519	mg/L	0.010	101	70	130	0.1	20	
Sample ID: C09030226-001CMS4	Post Digestion Spike			Run: SUB-C115667			03/10/09 07:08		
Antimony	0.0546	mg/L	0.050	109	70	130			
Arsenic	0.0529	mg/L	0.0010	100	70	130			
Beryllium	0.0341	mg/L	0.010	68	70	130			S
Boron	0.147	mg/L	0.10	57	70	130			S
Cadmium	0.0493	mg/L	0.010	99	70	130			
Chromium	0.0481	mg/L	0.050	93	70	130			
Copper	0.0484	mg/L	0.010	97	70	130			
Iron	1.35	mg/L	0.030	102	70	130			
Lead	0.0507	mg/L	0.050	101	70	130			
Molybdenum	0.0506	mg/L	0.10	89	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R115667		
Sample ID: C09030226-001CMS4	Post Digestion Spike		Run: SUB-C115667			03/10/09 07:08			
Nickel	0.0481	mg/L	0.050	95	70	130			
Selenium	0.0529	mg/L	0.0010	106	70	130			
Silver	0.0112	mg/L	0.010	56	70	130			S
Strontium	1.24	mg/L	0.10		70	130			A
Thallium	0.0504	mg/L	0.10	101	70	130			
Uranium	0.0500	mg/L	0.00030	97	70	130			
Zinc	0.0521	mg/L	0.010	102	70	130			
Sample ID: C09030226-001CMSD4	Post Digestion Spike Duplicate		Run: SUB-C115667			03/10/09 07:14			
Antimony	0.0543	mg/L	0.050	109	70	130	0.4	20	
Arsenic	0.0531	mg/L	0.0010	100	70	130	0.4	20	
Beryllium	0.0342	mg/L	0.010	68	70	130	0.2	20	S
Boron	0.147	mg/L	0.10	58	70	130	0.1	20	S
Cadmium	0.0492	mg/L	0.010	98	70	130	0.1	20	
Chromium	0.0482	mg/L	0.050	94	70	130		20	
Copper	0.0480	mg/L	0.010	96	70	130	0.7	20	
Iron	1.30	mg/L	0.030	98	70	130	3.5	20	
Lead	0.0506	mg/L	0.050	101	70	130	0.1	20	
Molybdenum	0.0497	mg/L	0.10	87	70	130		20	
Nickel	0.0477	mg/L	0.050	94	70	130		20	
Selenium	0.0507	mg/L	0.0010	101	70	130	4.2	20	
Silver	0.0118	mg/L	0.010	59	70	130	5.3	20	S
Strontium	1.25	mg/L	0.10		70	130	0.6	20	A
Thallium	0.0503	mg/L	0.10	101	70	130		20	
Uranium	0.0499	mg/L	0.00030	97	70	130	0.1	20	
Zinc	0.0520	mg/L	0.010	102	70	130	0.1	20	
Method: E200.8							Batch: C_R115711		
Sample ID: LRB	Method Blank		Run: SUB-C115711			03/10/09 12:30			
Beryllium	ND	mg/L	6E-05						
Molybdenum	ND	mg/L	4E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C115711			03/10/09 12:37			
Beryllium	0.0517	mg/L	0.0010	103	85	115			
Molybdenum	0.0499	mg/L	0.0010	100	85	115			
Sample ID: C09030221-002BMS4	Post Digestion Spike		Run: SUB-C115711			03/11/09 04:41			
Beryllium	0.238	mg/L	0.010	95	70	130			
Molybdenum	0.264	mg/L	0.10	104	70	130			
Sample ID: C09030221-002BMSD4	Post Digestion Spike Duplicate		Run: SUB-C115711			03/11/09 04:48			
Beryllium	0.236	mg/L	0.010	95	70	130	0.7	20	
Molybdenum	0.263	mg/L	0.10	104	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/14/09
 Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Batch: B_37498		
Sample ID: MB-37498	Method Blank					Run: SUB-B125567		03/02/09 10:54	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-37498	Laboratory Fortified Blank					Run: SUB-B125567		03/02/09 10:56	
Mercury	0.0019	mg/L	0.0010	97	85	115			
Sample ID: B09022083-001JMS	Sample Matrix Spike					Run: SUB-B125567		03/02/09 11:05	
Mercury	0.0020	mg/L	0.0010	100	70	130			
Sample ID: B09022083-001JMSD	Sample Matrix Spike Duplicate					Run: SUB-B125567		03/02/09 11:08	
Mercury	0.0020	mg/L	0.0010	99	70	130	1	30	
Sample ID: B09022084-003EMS	Sample Matrix Spike					Run: SUB-B125567		03/02/09 11:34	
Mercury	0.0019	mg/L	0.0010	95	70	130			
Sample ID: B09022084-003EMSD	Sample Matrix Spike Duplicate					Run: SUB-B125567		03/02/09 11:36	
Mercury	0.0020	mg/L	0.0010	95	70	130	0.5	30	
Method: E245.1							Batch: B_37499		
Sample ID: MB-37499	Method Blank					Run: SUB-B125469		02/27/09 16:05	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-37499	Laboratory Fortified Blank					Run: SUB-B125469		02/27/09 16:07	
Mercury	0.0018	mg/L	0.0010	91	85	115			
Sample ID: R09020293-009J	Sample Matrix Spike					Run: SUB-B125469		02/27/09 16:12	
Mercury	0.0019	mg/L	0.0010	88	70	130			
Sample ID: R09020293-009J	Sample Matrix Spike Duplicate					Run: SUB-B125469		02/27/09 16:14	
Mercury	0.0018	mg/L	0.0010	83	70	130	5.5	30	
Method: E245.1							Analytical Run: SUB-B125469		
Sample ID: QCS	Initial Calibration Verification Standard							02/27/09 09:13	
Mercury	0.0019	mg/L	0.0010	96	90	110			
Method: E245.1							Analytical Run: SUB-B125567		
Sample ID: QCS	Initial Calibration Verification Standard							03/02/09 10:47	
Mercury	0.0018	mg/L	0.0010	90	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
 Project: Edgemont

Report Date: 04/14/09
 Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R39724		
Sample ID: LFB0902255159-3	Laboratory Fortified Blank			Run: DIONEX_090225A			02/25/09 21:06		
Chloride	4.59	mg/L	0.50	92	90	110			
Fluoride	1.89	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.21	mg/L	0.10	88	90	110			S
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0902255159-4	Laboratory Fortified Blank			Run: DIONEX_090225A			02/25/09 21:22		
Chloride	4.56	mg/L	0.50	91	90	110			
Fluoride	1.92	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.20	mg/L	0.10	88	90	110			S
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: R09020255-001BMS	Sample Matrix Spike			Run: DIONEX_090225A			02/25/09 21:55		
Chloride	8.88	mg/L	0.50	95	80	120			
Fluoride	2.33	mg/L	0.10	94	80	120			
Nitrogen, Nitrate as N	2.50	mg/L	0.10	94	80	120			
Nitrogen, Nitrite as N	2.45	mg/L	0.10	98	80	120			
Sulfate	109	mg/L	1.0		80	120			A
Sample ID: R09020255-001BMSD	Sample Matrix Spike Duplicate			Run: DIONEX_090225A			02/25/09 22:11		
Chloride	8.76	mg/L	0.50	92	80	120	1.4	10	
Fluoride	2.28	mg/L	0.10	91	80	120	2.2	10	
Nitrogen, Nitrate as N	2.43	mg/L	0.10	92	80	120	2.8	10	
Nitrogen, Nitrite as N	2.38	mg/L	0.10	95	80	120	2.9	10	
Sulfate	109	mg/L	1.0		80	120	0.1	10	A
Sample ID: R09020293-004AMS	Sample Matrix Spike			Run: DIONEX_090225A			02/26/09 01:28		
Chloride	239	mg/L	5.4	85	80	120			
Fluoride	89.3	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120			
Nitrogen, Nitrite as N	120	mg/L	2.9	96	80	120			
Sulfate	1940	mg/L	3.4	92	80	120			
Sample ID: R09020293-004AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_090225A			02/26/09 01:45		
Chloride	256	mg/L	5.4	91	80	120	6.5	10	
Fluoride	94.8	mg/L	0.56	91	80	120	5.9	10	
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120	5.4	10	
Nitrogen, Nitrite as N	126	mg/L	2.9	101	80	120	5.4	10	
Sulfate	1980	mg/L	3.4	98	80	120	2.1	10	
Sample ID: R09020293-008AMS	Sample Matrix Spike			Run: DIONEX_090225A			02/26/09 04:45		
Chloride	249	mg/L	5.4	85	80	120			
Fluoride	93.3	mg/L	0.56	90	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/14/09
Work Order: R09020293

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R39724		
Sample ID: R09020293-008AMS	Sample Matrix Spike				Run: DIONEX_090225A		02/26/09 04:45		
Nitrogen, Nitrate as N	114	mg/L	1.3	91	80	120			
Nitrogen, Nitrite as N	125	mg/L	2.9	100	80	120			
Sulfate	1120	mg/L	3.4	83	80	120			
Sample ID: R09020293-008AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_090225A		02/26/09 05:02		
Chloride	238	mg/L	5.4	81	80	120	4.3	10	
Fluoride	88.9	mg/L	0.56	86	80	120	4.8	10	
Nitrogen, Nitrate as N	109	mg/L	1.3	87	80	120	4.4	10	
Nitrogen, Nitrite as N	119	mg/L	2.9	95	80	120	5	10	
Sulfate	1080	mg/L	3.4	78	80	120	3.1	10	S
Sample ID: R09020293-012AMS	Sample Matrix Spike				Run: DIONEX_090225A		02/26/09 08:02		
Chloride	246	mg/L	5.4	90	80	120			
Fluoride	93.2	mg/L	0.56	90	80	120			
Nitrogen, Nitrate as N	114	mg/L	1.3	91	80	120			
Nitrogen, Nitrite as N	124	mg/L	2.9	99	80	120			
Sulfate	1060	mg/L	3.4	83	80	120			
Sample ID: R09020293-012AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_090225A		02/26/09 08:19		
Chloride	236	mg/L	5.4	86	80	120	4.1	10	
Fluoride	88.4	mg/L	0.56	85	80	120	5.3	10	
Nitrogen, Nitrate as N	108	mg/L	1.3	87	80	120	5.3	10	
Nitrogen, Nitrite as N	118	mg/L	2.9	94	80	120	5.2	10	
Sulfate	1040	mg/L	3.4	80	80	120	2	10	
Method: E300.0							Batch: R39736		
Sample ID: LFB0902262544-3	Laboratory Fortified Blank				Run: DIONEX_090226A		02/26/09 19:28		
Sulfate	14.2	mg/L	1.0	94	90	110			
Sample ID: LFB0902262544-4	Laboratory Fortified Blank				Run: DIONEX_090226A		02/26/09 19:44		
Sulfate	13.3	mg/L	1.0	88	90	110			S

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Project Name, PWS, Permit, Etc. Dewey Burdick - Power-tech

Company Name: Scott Emv EPA/State Compliance: Yes No

Report Mail Address: R ESPEC State: _____

Contact Name: Allen Smith Phone/Fax: 605673-4059 Email: _____

Invoice Contact & Phone: _____ Purchase Order: _____ Quote/Bottle Order: _____

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA EDD/EDT (Electronic Data)

GSA POT/WWTP Format: _____

State: _____ LEVEL IV

Other: _____ NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED		Comments:	Shipped by:
				Normal Turnaround (TAT)	SEE ATTACHED		
1 DB Blm k01	2-24-09	18:00	water				
2 Puhon GW T04	2-24-09	09:40	"				
3 GW 3036	2-24-09	11:35	"				
4 GW 698	2-24-09	12:10	"				
5 GW 698	2-24-09	12:15	"				
6 GW 682	2-24-09	13:23	"				
7 GW 680	2-24-09	13:35	"				
8 GW 622	2-24-09	15:31	"				
9 GW 615	2-24-09	15:45	"				
10							

Number of Containers: _____ Sample Type: AW S V B Matrix: _____

Vegetation: _____ Air: _____ Soil/Solids: _____

Biossay: _____ Other: _____

Requisitioned by (print): Allen Smith Date/Time: 2-25-09 11:20

Relinquished by (print): _____ Date/Time: _____

Signature: [Signature] Date/Time: _____

Received by (print): _____ Date/Time: _____

Signature: _____ Date/Time: _____

Lab Disposal: _____ Return to Client: _____

Signature: Steve Traylor Date/Time: 2-25-09 11:00

Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: <i>Scott Env.</i>	Project Name, PWS, Permit, Etc. <i>Dewey Burdick - Ponchartr</i>	Sample Origin State: _____	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: <i>RFSPCL</i>	Contact Name: <i>Allen Scott</i>	Email: <i>605-673-4859</i>	Sampler: (Please Print)
Invoice Address: 	Invoice Contact & Phone: 	Purchase Order: 	Quote/Bottle Order:

Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MWTP State: _____ <input type="checkbox"/> Other: _____	<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC	ANALYSIS REQUESTED <div style="text-align: center; font-size: 2em; font-weight: bold;">R U S H</div> Comments: <i>As per Quote</i> Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page
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SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Number of Containers	Sample Type: AWSVB Air Water Vegetation Biossary Other
<i>6 W 689</i>	<i>2-24-09</i>	<i>16:04</i>	<i>water</i>		
<i>6 W 681</i>	<i>2-24-09</i>	<i>16:18</i>	<i>"</i>		
<i>6 W 697</i>	<i>2-24-09</i>	<i>16:45</i>	<i>"</i>		
<i>6 W 695</i>	<i>2-24-09</i>	<i>16:56</i>	<i>"</i>		
<i>6 W 694</i>	<i>2-24-09</i>	<i>17:15</i>	<i>"</i>		
<i>6 W 696</i>	<i>2-24-09</i>	<i>17:31</i>	<i>"</i>		

Requisitioned by (print): <i>Allen Scott</i>	Date/Time: <i>2-23-09 11:00</i>	Signature: <i>[Signature]</i>	Received by (print): 	Date/Time:
Requisitioned by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:

Sample Disposal: 	Return to Client: 	Lab Disposal: 	Signature: <i>Steve Finkbeiner</i>	Date/Time: <i>2-26-09 11:00</i>
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Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

****REPORT****

RESPEC Inc
Cory Foreman
3824 Jet Dr
Rapid City SD 57701



ANALYTICAL SUMMARY REPORT

February 27, 2010

Mark Hollenbeck
 Powertech USA Inc
 PO Box 812
 Edgemont, SD 57735

Workorder No. R10010180

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 1/19/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10010180-001	DB-09-21-01	01/18/10 0:00	01/19/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10010180-002	DB-09-21-02	01/18/10 0:00	01/19/10	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of your sample analysis.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by applicable quality assurance samples throughout the test. Where applicable, the results of these quality assurance samples will be included with your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please feel free to call (888)672-1225, (605)342-1225 or llarson@energylab.com.

Sincerely,



ENERGY LABORATORIES, INC. * 2821 Plant St * Rapid City, SD 57702
Toll Free 888.672.1225 * 605.342.1225 * FAX 605.342.1397 * rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

Linda Larson
Branch Manager
Energy Laboratories, Inc.
Rapid City, SD

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2010.03.09 13:22:54 -07:00

Report Approved By:



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10010180

Report Date: 02/27/10

CASE NARRATIVE

Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

Tests Associated with Analyst identified as ELI-CA were subcontracted to Energy Laboratories Casper Branch, EPA Number WY00002.

Comments imported for SUBBED Workorder: C10010713

PO210 ANALYSIS

The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences. Please consult with your local regulatory agency prior to using these results for compliance purposes.

PB210 ANALYSIS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

End of comments imported for SUBBED Workorder: C10010713

Comments

The alkalinity on DB-09-21-01 seems to have some sort of buffering affect. A recheck on the alkalinity resulted in 104 mg/L



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling
 Lab ID: R10010180-001
 Client Sample ID: DB-09-21-01

Report Date: 02/27/10
 Collection Date: 01/18/10
 Date Received: 01/19/10
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	40	mg/L		5			1	A2320 B	01/26/10 15:01/mb
Carbonate as CO3	ND	mg/L		5			1	A2320 B	01/26/10 15:01/mb
Bicarbonate as HCO3	44	mg/L		5			1	A2320 B	01/26/10 15:01/mb
Calcium	61	mg/L	D	1			5	E200.7	02/02/10 16:53/eli-c
Chloride	7	mg/L		1			1	E300.0	01/20/10 17:23/jmh
Fluoride	0.3	mg/L		0.1			1	E300.0	01/20/10 17:23/jmh
Magnesium	21.7	mg/L		0.5			5	E200.7	02/02/10 16:53/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1			1	A4500-NH3 G	01/19/10 12:18/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1			1	E300.0	01/20/10 17:23/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1			1	E300.0	01/20/10 17:23/jmh
Potassium	13.6	mg/L		0.5			5	E200.7	02/02/10 16:53/eli-c
Sodium	166	mg/L	D	1			5	E200.7	02/02/10 16:53/eli-c
Sulfate	513	mg/L		1			20	E300.0	01/20/10 16:33/jmh
Silica	7.1	mg/L		0.2			5	E200.7	02/02/10 16:53/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1150	umhos/cm		5.0			1	A2510 B	01/21/10 09:16/tb
Oxidation-Reduction Potential	210	mV					1	A2580 B	01/25/10 16:00/jmh
pH	9.03	s.u.		0.01			1	A4500-H B	01/22/10 12:07/tb
Sodium Adsorption Ratio (SAR)	4.6	unitless		0.10			1	Calculation	02/05/10 15:38/ADM
Solids, Total Dissolved TDS @ 180 C	770	mg/L		5			1	A2540 C	01/25/10 10:52/mb
METALS - DISSOLVED									
Aluminum	ND	mg/L		0.1			1	E200.8	01/27/10 15:48/eli-c
Arsenic	ND	mg/L		0.001			1	E200.8	01/27/10 15:48/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/27/10 15:48/eli-c
Boron	ND	mg/L		0.1			5	E200.7	02/02/10 16:53/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/27/10 15:48/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/27/10 15:48/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/27/10 15:48/eli-c
Iron	ND	mg/L		0.03			5	E200.7	02/02/10 16:53/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/27/10 15:48/eli-c
Manganese	0.01	mg/L		0.01			1	E200.8	01/27/10 15:48/eli-c
Mercury	ND	mg/L		0.001			1	E200.8	01/27/10 15:48/eli-c
Molybdenum	ND	mg/L		0.1			1	E200.8	01/27/10 15:48/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/27/10 15:48/eli-c
Selenium	ND	mg/L		0.001			1	A3114 B	01/26/10 12:08/eli-ca
Silver	ND	mg/L		0.005			1	E200.8	01/27/10 15:48/eli-c
Thorium 232	ND	mg/L		0.005			1	E200.8	01/27/10 15:48/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Page 1 of 8

Definitions: QCL - Quality control limit.

ND Not detected at the reporting limit

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling
 Lab ID: R10010180-001
 Client Sample ID: DB-09-21-01

Report Date: 02/27/10
 Collection Date: 01/18/10
 Date Received: 01/19/10
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	01/27/10 15:48/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	01/27/10 15:48/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/27/10 15:48/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	02/02/10 04:36/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/26/10 10:32/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	01/26/10 14:36/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	3.0	pCi/L	U			1	E900.0	02/06/10 01:58/eli-ca
Gross Alpha precision (±)	2.9	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Alpha MDC	4.6	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Beta	11.3	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Gross Beta MDC	3.9	pCi/L				1	E900.0	02/06/10 01:58/eli-ca
Lead 210	0.3	pCi/L	U			1	E909.0M	02/09/10 11:19/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Lead 210 MDC	2.8	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Polonium 210	0.050	pCi/L	U			1	E912.0	02/19/10 08:46/eli-c
Polonium 210 MDC	0.44	pCi/L				1	E912.0	02/19/10 08:46/eli-c
Polonium 210 precision (±)	0.22	pCi/L				1	E912.0	02/19/10 08:46/eli-c
Radium 226	0.6	pCi/L				1	E903.0	02/02/10 11:19/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	02/02/10 11:19/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	02/02/10 11:19/eli-c
Thorium 230	0.02	pCi/L	U			1	E907.0	01/26/10 09:42/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	01/26/10 09:42/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	01/26/10 09:42/eli-c
Gross Gamma	1100	pCi/L				1	E901.1	01/23/10 20:28/eli-c
Gross Gamma precision (+)	150	pCi/L				1	E901.1	01/23/10 20:28/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	1.9	pCi/L	U			1	E909.0M	02/09/10 11:19/eli-c
Lead 210 precision (±)	4.3	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Lead 210 MDC	7.1	pCi/L				1	E909.0M	02/09/10 11:19/eli-c
Polonium 210	-0.056	pCi/L	U			1	E912.0	02/17/10 08:48/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling
 Lab ID: R10010180-001
 Client Sample ID: DB-09-21-01

Report Date: 02/27/10
 Collection Date: 01/18/10
 Date Received: 01/19/10
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Polonium 210 precision (±)	0.44	pCi/L					1	E912.0	02/17/10 08:48/eli-c
Polonium 210 MDC	1.2	pCi/L					1	E912.0	02/17/10 08:48/eli-c
Radium 226	-0.2	pCi/L	U				1	E903.0	02/04/10 08:48/eli-cat
Radium 226 precision (±)	0.03	pCi/L					1	E903.0	02/04/10 08:48/eli-cat
Radium 226 MDC	0.08	pCi/L					1	E903.0	02/04/10 08:48/eli-cat
Thorium 230	-0.1	pCi/L	U				1	E907.0	02/02/10 15:49/eli-c
Thorium 230 precision (±)	0.09	pCi/L					1	E907.0	02/02/10 15:49/eli-c
- See Case Narrative regarding Pb210 analysis.									
RADIONUCLIDES - TOTAL									
Radon 222	206	pCi/L		100			1	D5072-92	12/20/09 00:00/ADM
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	01/28/10 16:22/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	01/28/10 16:22/eli-c
Barium	ND	mg/L		0.1			1	E200.8	01/28/10 16:22/eli-c
~ "	ND	mg/L		0.001			1	E200.8	01/28/10 16:22/eli-c
Boron	ND	mg/L		0.1			1	E200.8	02/01/10 20:32/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/28/10 16:22/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/28/10 16:22/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/28/10 16:22/eli-c
Iron	0.10	mg/L		0.03			1	E200.8	02/01/10 20:32/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/28/10 16:22/eli-c
Manganese	0.02	mg/L		0.01			1	E200.8	01/28/10 16:22/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	01/21/10 14:54/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	01/28/10 16:22/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/28/10 16:22/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	02/01/10 20:32/eli-c
Silver	ND	mg/L		0.005			1	E200.8	02/01/10 20:32/eli-c
Strontium	2.6	mg/L		0.1			1	E200.8	02/01/10 20:32/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	02/01/10 20:32/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	02/01/10 20:32/eli-c
	ND	mg/L		0.01				E200.8	02/01/10 20:32/eli-c
DATA QUALITY									
A/C Balance (± 5)	2.96	%					1	A1030 E	02/05/10 00:00/jmh
Anions	11.7	meq/L					1	A1030 E	02/05/10 00:00/jmh
Cations	12.4	meq/L					1	A1030 E	02/05/10 00:00/jmh
Solids, Total Dissolved Calculated	825	mg/L					1	A1030 E	02/05/10 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling
 Lab ID: R10010180-001
 Client Sample ID: DB-09-21-01

Report Date: 02/27/10
 Collection Date: 01/18/10
 Date Received: 01/19/10
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.930						1 A1030 E	02/05/10 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND Not detected at the reporting limit



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling
 Lab ID: R10010180-002
 Client Sample ID: DB-09-21-02

Report Date: 02/27/10
 Collection Date: 01/18/10
 Date Received: 01/19/10
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	196	mg/L		5		1	A2320 B	01/26/10 15:08/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/26/10 15:08/mb
Bicarbonate as HCO3	239	mg/L		5		1	A2320 B	01/26/10 15:08/mb
Calcium	172	mg/L	D	1		5	E200.7	02/02/10 16:57/eli-c
Chloride	10	mg/L		1		1	E300.0	01/20/10 17:55/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	01/20/10 17:55/jmh
Magnesium	49.0	mg/L		0.5		5	E200.7	02/02/10 16:57/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/19/10 12:19/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	01/20/10 17:55/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	01/20/10 17:55/jmh
Potassium	12.4	mg/L		0.5		5	E200.7	02/02/10 16:57/eli-c
Sodium	127	mg/L	D	1		5	E200.7	02/02/10 16:57/eli-c
Sulfate	714	mg/L		1		20	E300.0	01/20/10 17:39/jmh
Silica	9.1	mg/L		0.2		5	E200.7	02/02/10 16:57/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1620	umhos/cm		5.0		1	A2510 B	01/21/10 09:18/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	01/25/10 16:00/jmh
pH	7.63	s.u.		0.01		1	A4500-H B	01/22/10 12:10/tb
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10		1	Calculation	02/05/10 15:38/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L		5		1	A2540 C	01/25/10 10:53/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	01/27/10 15:54/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	01/27/10 15:54/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/27/10 15:54/eli-c
Boron	ND	mg/L		0.1		5	E200.7	02/02/10 16:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/27/10 15:54/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/27/10 15:54/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/27/10 15:54/eli-c
Iron	ND	mg/L		0.03		5	E200.7	02/02/10 16:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/27/10 15:54/eli-c
Manganese	0.52	mg/L		0.01		1	E200.8	01/27/10 15:54/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/27/10 15:54/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/27/10 15:54/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/27/10 15:54/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	01/26/10 12:15/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	01/27/10 15:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/27/10 15:54/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND Not detected at the reporting limit

D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling
 Lab ID: R10010180-002
 Client Sample ID: DB-09-21-02

Report Date: 02/27/10
 Collection Date: 01/18/10
 Date Received: 01/19/10
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0089	mg/L		0.0003		1 E200.8	01/27/10 15:54/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	01/27/10 15:54/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	01/27/10 15:54/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	02/02/10 04:40/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	01/26/10 10:39/eli-ca
Selenium-VI	ND	mg/L		0.001		1 A3114 B	01/26/10 14:36/eli-ca
RADIONUCLIDES - DISSOLVED							
Gross Alpha	39.7	pCi/L				1 E900.0	02/06/10 01:58/eli-ca
Gross Alpha precision (±)	6.7	pCi/L				1 E900.0	02/06/10 01:58/eli-ca
Gross Alpha MDC	7.4	pCi/L				1 E900.0	02/06/10 01:58/eli-ca
Gross Beta	18.3	pCi/L				1 E900.0	02/06/10 01:58/eli-ca
Gross Beta precision (±)	4.0	pCi/L				1 E900.0	02/06/10 01:58/eli-ca
Gross Beta MDC	6.2	pCi/L				1 E900.0	02/06/10 01:58/eli-ca
Lead 210	1.1	pCi/L	U			1 E909.0M	02/09/10 11:19/eli-c
Lead 210 precision (±)	1.7	pCi/L				1 E909.0M	02/09/10 11:19/eli-c
Lead 210 MDC	2.8	pCi/L				1 E909.0M	02/09/10 11:19/eli-c
Polonium 210	0.074	pCi/L	U			1 E912.0	02/19/10 08:46/eli-c
Polonium 210 MDC	1.4	pCi/L				1 E912.0	02/19/10 08:46/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1 E912.0	02/19/10 08:46/eli-c
Radium 226	2.7	pCi/L				1 E903.0	02/02/10 11:19/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	02/02/10 11:19/eli-c
Radium 226 MDC	0.2	pCi/L				1 E903.0	02/02/10 11:19/eli-c
Thorium 230	0.01	pCi/L	U			1 E907.0	01/26/10 09:42/eli-c
Thorium 230 MDC	0.1	pCi/L				1 E907.0	01/26/10 09:42/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1 E907.0	01/26/10 09:42/eli-c
Gross Gamma	820	pCi/L				1 E901.1	01/23/10 20:28/eli-c
Gross Gamma precision (+)	130	pCi/L				1 E901.1	01/23/10 20:28/eli-c
- See Case Narrative regarding Pb210 analysis.							
RADIONUCLIDES - SUSPENDED							
Lead 210	2.6	pCi/L	U			1 E909.0M	02/09/10 11:19/eli-c
Lead 210 precision (±)	4.3	pCi/L				1 E909.0M	02/09/10 11:19/eli-c
Lead 210 MDC	7.1	pCi/L				1 E909.0M	02/09/10 11:19/eli-c
Polonium 210	0.12	pCi/L	U			1 E912.0	02/17/10 08:48/eli-c

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling
 Lab ID: R10010180-002
 Client Sample ID: DB-09-21-02

Report Date: 02/27/10
 Collection Date: 01/18/10
 Date Received: 01/19/10
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Polonium 210 precision (±)	0.94	pCi/L					1	E912.0	02/17/10 08:48/eli-c
Polonium 210 MDC	2.1	pCi/L					1	E912.0	02/17/10 08:48/eli-c
Radium 226	-0.2	pCi/L	U				1	E903.0	02/04/10 08:48/eli-cat
Radium 226 precision (±)	0.04	pCi/L					1	E903.0	02/04/10 08:48/eli-cat
Radium 226 MDC	0.08	pCi/L					1	E903.0	02/04/10 08:48/eli-cat
Thorium 230	0.06	pCi/L	U				1	E907.0	02/02/10 15:49/eli-c
Thorium 230 precision (±)	0.1	pCi/L					1	E907.0	02/02/10 15:49/eli-c
- See Case Narrative regarding Pb210 analysis.									
- See Case Narrative regarding Po210 analysis.									
RADIONUCLIDES - TOTAL									
Radon 222	270	pCi/L		100			1	D5072-92	12/20/09 00:00/ADM
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	01/28/10 16:28/eli-c
Arsenic	0.003	mg/L		0.001			1	E200.8	01/28/10 16:28/eli-c
~	ND	mg/L		0.1			1	E200.8	01/28/10 16:28/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	01/28/10 16:28/eli-c
Boron	ND	mg/L		0.1			1	E200.8	02/01/10 20:38/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	01/28/10 16:28/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	01/28/10 16:28/eli-c
Copper	ND	mg/L		0.01			1	E200.8	01/28/10 16:28/eli-c
Iron	0.03	mg/L		0.03			1	E200.8	02/01/10 20:38/eli-c
Lead	ND	mg/L		0.001			1	E200.8	01/28/10 16:28/eli-c
Manganese	0.54	mg/L		0.01			1	E200.8	01/28/10 16:28/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	01/21/10 14:56/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	01/28/10 16:28/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	01/28/10 16:28/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	01/28/10 16:28/eli-c
Silver	ND	mg/L		0.005			1	E200.8	01/28/10 16:28/eli-c
Strontium	2.4	mg/L		0.1			1	E200.8	01/28/10 16:28/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	01/28/10 16:28/eli-c
Zinc	0.0087	mg/L		0.0003			1	E200.8	01/28/10 16:28/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.62	%					1	A1030 E	02/05/10 00:00/jmh
Anions	19.1	meq/L					1	A1030 E	02/05/10 00:00/jmh
Cations	18.5	meq/L					1	A1030 E	02/05/10 00:00/jmh

Report RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10010180-002
Client Sample ID: DB-09-21-02

Report Date: 02/27/10
Collection Date: 01/18/10
Date Received: 01/19/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
Solids, Total Dissolved Calculated	1230	mg/L					1	A1030 E	02/05/10 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	02/05/10 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 100126A-ALK-SEL-W		
Sample ID: LCS1_100126A	Laboratory Control Sample					Run: PH_COND1-R_100126A			01/26/10 14:03
Alkalinity, Total as CaCO3	984	mg/L	5.0	98	90	110			
Sample ID: MBLK1_100126A	Method Blank					Run: PH_COND1-R_100126A			01/26/10 14:04
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R10010209-001AMS	Sample Matrix Spike					Run: PH_COND1-R_100126A			01/26/10 15:15
Alkalinity, Total as CaCO3	238	mg/L	5.0	89	80	120			
Sample ID: R10010209-001AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_100126A			01/26/10 15:18
Alkalinity, Total as CaCO3	238	mg/L	5.0	89	80	120	0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Batch: 100121_1_COND-PROBE-W		
Sample ID: LCS_COND-1_100121 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			01/21/10 08:59
Sample ID: LCS1-1_100121 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			01/21/10 09:01
Sample ID: LCS2-1_100121 Conductivity @ 25 C	Laboratory Control Sample 5030	umhos/cm	5.0	101	90	110			01/21/10 09:03
Sample ID: MBLK-1_100121 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						01/21/10 09:07
Sample ID: R10010114-001ADUP Conductivity @ 25 C	Sample Duplicate 5670	umhos/cm	5.0				0	10	01/21/10 09:11

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 100125A-SLDS-TDS-W		
Sample ID: LCS1_100125A	Laboratory Control Sample					Run: BAL-4-R_100125A			01/25/10 10:51
Solids, Total Dissolved TDS @ 180 C	200	mg/L	10	100	90	110			
Sample ID: MBLK1_100125A	Method Blank					Run: BAL-4-R_100125A			01/25/10 10:51
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	5						
Sample ID: R10010227-001AMS	Sample Matrix Spike					Run: BAL-4-R_100125A			01/25/10 10:59
Solids, Total Dissolved TDS @ 180 C	2000	mg/L	10	107	80	120			
Sample ID: R10010227-001AMSD	Sample Matrix Spike Duplicate					Run: BAL-4-R_100125A			01/25/10 11:00
Solids, Total Dissolved TDS @ 180 C	2000	mg/L	10	106	80	120	0.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 100125-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample					Run: PH_COND1-R_100125A	01/25/10 16:00		
Oxidation-Reduction Potential	460	mV		97	95	105			
Sample ID: R10010180-001F	Sample Duplicate					Run: PH_COND1-R_100125A	01/25/10 16:00		
Oxidation-Reduction Potential	220	mV					5.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-100126A		
Sample ID: MBLK	Method Blank					Run: SUB-C128931			01/26/10 10:25
Selenium-IV	ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 01051	Laboratory Control Sample					Run: SUB-C128931			01/26/10 10:28
Selenium-IV	0.048	mg/L	0.0010	96	90	110			
Sample ID: R10010180-001E	Sample Matrix Spike					Run: SUB-C128931			01/26/10 10:35
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: R10010180-001E	Sample Matrix Spike Duplicate					Run: SUB-C128931			01/26/10 10:37
Selenium-IV	0.048	mg/L	0.0010	97	85	115	3	10	
Method: A3114 B							Batch: C_SE3114-100126B		
Sample ID: MBLK	Method Blank					Run: SUB-C128938			01/26/10 12:01
Selenium	ND	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 01051	Laboratory Control Sample					Run: SUB-C128938			01/26/10 12:03
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: R10010180-001E	Sample Matrix Spike					Run: SUB-C128938			01/26/10 12:10
Selenium	0.051	mg/L	0.0010	103	85	115			
Sample ID: R10010180-001E	Sample Matrix Spike Duplicate					Run: SUB-C128938			01/26/10 12:12
Selenium	0.051	mg/L	0.0010	103	85	115	0	15	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 100122_1_PH-W		
Sample ID: LCS_pH-1_100122	Laboratory Control Sample					Run: PH_COND2-R_100122A		01/22/10 11:58	
pH	6.90	s.u.	0.010	101	98.55	101.45			
Sample ID: R10010179-002CDUP	Sample Duplicate					Run: PH_COND2-R_100122A		01/22/10 12:04	
pH	8.07	s.u.	0.010				0	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2010-01-19_2_NH3_01		
Sample ID: MBLK-2	Method Blank					Run: TECHAA2-R_100119A		01/19/10 11:06	
Nitrogen, Ammonia as N	0.02	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank					Run: TECHAA2-R_100119A		01/19/10 11:29	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	90	90	110			
Sample ID: R10010180-002BMS	Sample Matrix Spke					Run: TECHAA2-R_100119A		01/19/10 12:20	
Nitrogen, Ammonia as N	0.19	mg/L	0.10	74	80	120			S
Sample ID: R10010180-002BMSD	Sample Matrix Spke Duplicate					Run: TECHAA2-R_100119A		01/19/10 12:21	
Nitrogen, Ammonia as N	0.19	mg/L	0.10	75	80	120	1.1	10	S

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 S Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R129210		
Sample ID: MB-100202A	Method Blank		Run: SUB-C129210			02/02/10 14:52			
Silicon	0.03	mg/L	0.007						
Boron	0.01	mg/L	0.009						
Calcium	ND	mg/L	0.2						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.05						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.3						
Sample ID: LFB-100202A	Laboratory Fortified Blank		Run: SUB-C129210			02/02/10 14:56			
Silicon	0.45	mg/L	0.0075	95	85	115			
Boron	1.0	mg/L	0.10	99	85	115			
Calcium	50	mg/L	0.50	99	85	115			
Iron	1.00	mg/L	0.030	100	85	115			
Magnesium	49	mg/L	0.50	99	85	115			
Potassium	44	mg/L	0.50	88	85	115			
Sodium	48	mg/L	0.50	97	85	115			
Silica	0.97	mg/L	0.016	97	85	125			
Sample ID: C10010571-001BMS2	Sample Matrix Spike		Run: SUB-C129210			02/02/10 17:09			
Boron	2.03	mg/L	0.10	97	70	130			
Iron	1.99	mg/L	0.030	97	70	130			
Silicon	9.05	mg/L	0.10		70	130			A
Calcium	241	mg/L	1.0	99	70	130			
Magnesium	124	mg/L	1.0	97	70	130			
Potassium	101	mg/L	1.0	80	70	130			
Sodium	141	mg/L	1.0	99	70	130			
Sample ID: C10010571-001BMSD2	Sample Matrix Spike Duplicate		Run: SUB-C129210			02/02/10 17:13			
Boron	2.08	mg/L	0.10	99	70	130	2.5	20	
Iron	1.99	mg/L	0.030	97	70	130	0	20	
Silicon	9.23	mg/L	0.10		70	130	1.9	20	A
Calcium	241	mg/L	1.0	99	70	130	0	20	
Magnesium	123	mg/L	1.0	96	70	130	0.8	20	
Potassium	101	mg/L	1.0	80	70	130	0.1	20	
Sodium	144	mg/L	1.0	102	70	130	2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R129009		
Sample ID: LRB	Method Blank		Run: SUB-C129009			01/27/10 12:26			
Aluminum	ND	mg/L	0.002						
Arsenic	ND	mg/L	0.0003						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	ND	mg/L	4E-05						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	4E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Silver	ND	mg/L	2E-05						
Thorium 232	0.0002	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Vanadium	ND	mg/L	9E-05						
Zinc	0.0002	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C129009			01/27/10 12:47			
Aluminum	0.0541	mg/L	0.0022	108	85	115			
Arsenic	0.0541	mg/L	0.0010	108	85	115			
Barium	0.0560	mg/L	0.0010	112	85	115			
Cadmium	0.0543	mg/L	0.0010	109	85	115			
Chromium	0.0534	mg/L	0.0010	107	85	115			
Copper	0.0536	mg/L	0.0010	107	85	115			
Lead	0.0546	mg/L	0.0010	109	85	115			
Manganese	0.0536	mg/L	0.0010	107	85	115			
Mercury	0.00557	mg/L	0.0010	111	85	115			
Molybdenum	0.0546	mg/L	0.0010	109	85	115			
Nickel	0.0531	mg/L	0.0010	106	85	115			
Silver	0.0209	mg/L	0.0010	105	85	115			
Thorium 232	0.0510	mg/L	0.0010	102	85	115			
Uranium	0.0537	mg/L	0.00030	107	85	115			
Vanadium	0.0532	mg/L	0.0010	106	85	115			
Zinc	0.0540	mg/L	0.0010	107	85	115			
Sample ID: R10010180-002C	Post Digestion Spike		Run: SUB-C129009			01/27/10 16:01			
Aluminum	0.0588	mg/L	0.0010	114	70	130			
Arsenic	0.0606	mg/L	0.0010	115	70	130			
Barium	0.0731	mg/L	0.0010	118	70	130			
Cadmium	0.0547	mg/L	0.010	109	70	130			
Chromium	0.0517	mg/L	0.050	102	70	130			
Copper	0.0524	mg/L	0.010	102	70	130			
Lead	0.0570	mg/L	0.050	114	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R129009		
Sample ID: R10010180-002C	Post Digestion Spike			Run: SUB-C129009			01/27/10 16:01		
Manganese	0.564	mg/L	0.010		70	130			A
Mercury	0.00581	mg/L	0.0010	116	70	130			
Molybdenum	0.0582	mg/L	0.0010	115	70	130			
Nickel	0.0539	mg/L	0.050	103	70	130			
Silver	0.0189	mg/L	0.010	94	70	130			
Thorium 232	0.0630	mg/L	0.0010	126	70	130			
Uranium	0.0724	mg/L	0.00030	127	70	130			
Vanadium	0.0552	mg/L	0.0010	108	70	130			
Zinc	0.0539	mg/L	0.010	101	70	130			
Sample ID: R10010180-002C	Post Digestion Spike Duplicate			Run: SUB-C129009			01/27/10 16:08		
Aluminum	0.0579	mg/L	0.0010	112	70	130	1.5	20	
Arsenic	0.0605	mg/L	0.0010	115	70	130	0.2	20	
Barium	0.0735	mg/L	0.0010	119	70	130	0.6	20	
Cadmium	0.0549	mg/L	0.010	110	70	130	0.4	20	
Chromium	0.0520	mg/L	0.050	102	70	130	0.5	20	
Copper	0.0519	mg/L	0.010	101	70	130	0.9	20	
Lead	0.0571	mg/L	0.050	114	70	130	0.2	20	
Manganese	0.564	mg/L	0.010		70	130	0.1	20	A
Mercury	0.00592	mg/L	0.0010	118	70	130	1.9	20	
Molybdenum	0.0587	mg/L	0.0010	116	70	130	0.9	20	
Nickel	0.0534	mg/L	0.050	102	70	130	1	20	
Silver	0.0188	mg/L	0.010	94	70	130	0.4	20	
Thorium 232	0.0629	mg/L	0.0010	126	70	130	0.1	20	
Uranium	0.0726	mg/L	0.00030	127	70	130	0.2	20	
Vanadium	0.0548	mg/L	0.0010	107	70	130	0.7	20	
Zinc	0.0529	mg/L	0.010	99	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R129058
Sample ID: LRB	Method Blank								Run: SUB-C129058 01/28/10 14:40
Antimony	0.0001	mg/L	0.0001						
Arsenic	ND	mg/L	0.0003						
Barium	ND	mg/L	3E-05						
Beryllium	ND	mg/L	6E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	5E-05	mg/L	4E-05						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	5E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Selenium	ND	mg/L	0.001						
Silver	4E-05	mg/L	2E-05						
Strontium	ND	mg/L	2E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Zinc	0.0008	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank								Run: SUB-C129058 01/28/10 14:47
Antimony	0.0508	mg/L	0.0010	101	85	115			
Arsenic	0.0511	mg/L	0.0010	102	85	115			
Barium	0.0509	mg/L	0.0010	102	85	115			
Beryllium	0.0511	mg/L	0.0010	102	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Chromium	0.0511	mg/L	0.0010	102	85	115			
Copper	0.0515	mg/L	0.0010	103	85	115			
Lead	0.0509	mg/L	0.0010	102	85	115			
Manganese	0.0506	mg/L	0.0010	101	85	115			
Molybdenum	0.0515	mg/L	0.0010	103	85	115			
Nickel	0.0510	mg/L	0.0010	102	85	115			
Selenium	0.0508	mg/L	0.0014	102	85	115			
Silver	0.0204	mg/L	0.0010	102	85	115			
Strontium	0.0501	mg/L	0.0010	100	85	115			
Thallium	0.0497	mg/L	0.0010	99	85	115			
Uranium	0.0498	mg/L	0.00030	100	85	115			
Zinc	0.0521	mg/L	0.0010	103	85	115			
Sample ID: R10010180-002D	Post Digestion Spike								Run: SUB-C129058 01/28/10 16:35
Antimony	0.0564	mg/L	0.050	113	70	130			
Arsenic	0.0550	mg/L	0.0010	103	70	130			
Barium	0.0654	mg/L	0.0010	103	70	130			
Beryllium	0.0441	mg/L	0.010	88	70	130			
Cadmium	0.0489	mg/L	0.010	98	70	130			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R129058		
Sample ID: R10010180-002D	Post Digestion Spike			Run: SUB-C129058			01/28/10 16:35		
Chromium	0.0491	mg/L	0.0010	98	70	130			
Copper	0.0458	mg/L	0.010	89	70	130			
Lead	0.0514	mg/L	0.050	103	70	130			
Manganese	0.582	mg/L	0.010		70	130			A
Molybdenum	0.0515	mg/L	0.0010	101	70	130			
Nickel	0.0458	mg/L	0.0010	87	70	130			
Selenium	0.0517	mg/L	0.0010	103	70	130			
Silver	0.00941	mg/L	0.0010	47	70	130			S
Strontium	2.42	mg/L	0.10		70	130			A
Thallium	0.0491	mg/L	0.0010	98	70	130			
Uranium	0.0621	mg/L	0.00030	107	70	130			
Zinc	0.0483	mg/L	0.010	93	70	130			
Sample ID: R10010180-002D	Post Digestion Spike Duplicate			Run: SUB-C129058			01/28/10 16:42		
Antimony	0.0565	mg/L	0.050	113	70	130	0.2	20	
Arsenic	0.0556	mg/L	0.0010	105	70	130	1.1	20	
Barium	0.0655	mg/L	0.0010	104	70	130	0.3	20	
Beryllium	0.0448	mg/L	0.010	90	70	130	1.7	20	
Cadmium	0.0496	mg/L	0.010	99	70	130	1.5	20	
Chromium	0.0491	mg/L	0.0010	98	70	130	0	20	
Copper	0.0466	mg/L	0.010	91	70	130	1.8	20	
Lead	0.0514	mg/L	0.050	103	70	130	0.1	20	
Manganese	0.578	mg/L	0.010		70	130	0.7	20	A
Molybdenum	0.0524	mg/L	0.0010	103	70	130	1.8	20	
Nickel	0.0473	mg/L	0.0010	90	70	130	3.2	20	
Selenium	0.0513	mg/L	0.0010	103	70	130	0.7	20	
Silver	0.00920	mg/L	0.0010	46	70	130	2.3	20	S
Strontium	2.43	mg/L	0.10		70	130	0.3	20	A
Thallium	0.0495	mg/L	0.0010	99	70	130	0.9	20	
Uranium	0.0625	mg/L	0.00030	108	70	130	0.6	20	
Zinc	0.0489	mg/L	0.010	94	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Analytical Run: SUB-C129168		
Sample ID: ICV	Initial Calibration Verification Standard								02/01/10 13:08
Uranium	0.0495	mg/L	0.00030	99	90	110			
Method: E200.8							Batch: C_25076		
Sample ID: MB-25076	Method Blank								02/02/10 00:36
Uranium	0.01	mg/L	6E-05						
Sample ID: LCS2-25076	Laboratory Control Sample								02/02/10 00:40
Uranium	0.109	mg/L	0.00030	109	85	115			
Sample ID: R10010180-002I	Post Digestion Spike								02/02/10 04:44
Uranium	0.0520	mg/L	0.00030	104	70	130			
Sample ID: R10010180-002I	Post Digestion Spike Duplicate								02/02/10 05:05
Uranium	0.0519	mg/L	0.00030	104	70	130	0.1	20	
Method: E200.8							Batch: C_R129172		
Sample ID: LRB	Method Blank								02/01/10 13:36
Boron	0.0008	mg/L	0.0004						
Iron	ND	mg/L	0.0006						
Selenium	ND	mg/L	3E-05						
Silver	0.0001	mg/L	4E-05						
Strontium	ND	mg/L	3E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	3E-05						
Zinc	0.0009	mg/L	0.0002						
Sample ID: LFB	Laboratory Fortified Blank								02/01/10 13:42
Boron	0.0524	mg/L	0.0010	98	85	115			
Iron	1.28	mg/L	0.0010	102	85	115			
Selenium	0.0508	mg/L	0.0010	102	85	115			
Silver	0.0202	mg/L	0.0010	101	85	115			
Strontium	0.0493	mg/L	0.0010	98	85	115			
Thallium	0.0507	mg/L	0.0010	101	85	115			
Uranium	0.0487	mg/L	0.00030	97	85	115			
Zinc	0.0539	mg/L	0.0010	105	85	115			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_44007
Sample ID: MB-44007	Method Blank								01/21/10 14:42
Mercury	ND	mg/L	5E-05						
Run: SUB-B142124									
Sample ID: LCS-44007	Laboratory Control Sample								01/21/10 14:44
Mercury	0.0019	mg/L	0.0010	94	85	115			
Run: SUB-B142124									
Sample ID: B10011137-001CMS	Sample Matrix Spike								01/21/10 14:48
Mercury	0.0019	mg/L	0.0010	96	70	130			
Run: SUB-B142124									
Sample ID: B10011137-001CMSD	Sample Matrix Spike Duplicate								01/21/10 14:50
Mercury	0.0019	mg/L	0.0010	97	70	130	0.5	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R44459		
Sample ID: LFB011910-10	Laboratory Fortified Blank			Run: DIONEX_100120A			01/20/10 16:17		
Chloride	4.92	mg/L	0.50	98	90	110			
Fluoride	2.05	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N	2.60	mg/L	0.10	104	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: R10010180-001AMS	Sample Matrix Spike			Run: DIONEX_100120A			01/20/10 16:50		
Chloride	107	mg/L	2.2	95	80	120			
Fluoride	41.9	mg/L	0.22	98	80	120			
Nitrogen, Nitrate as N	48.0	mg/L	0.50	96	80	120			
Nitrogen, Nitrite as N	53.3	mg/L	1.2	107	80	120			
Sulfate	754	mg/L	1.3	81	80	120			
Sample ID: R10010180-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_100120A			01/20/10 17:06		
Chloride	108	mg/L	2.2	96	80	120	1	10	
Fluoride	42.3	mg/L	0.22	99	80	120	1.1	10	
Nitrogen, Nitrate as N	48.2	mg/L	0.50	96	80	120	0.5	10	
Nitrogen, Nitrite as N	53.5	mg/L	1.2	107	80	120	0.3	10	
Sulfate	757	mg/L	1.3	82	80	120	0.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0827		
Sample ID: MB-GrAB-0827	Method Blank				Run: SUB-C129405			02/05/10 11:47	
Gross Alpha	-0.7	pCi/L							U
Gross Alpha precision (±)	0.8	pCi/L							
Gross Alpha MDC	0.9	pCi/L							
Gross Beta	-5	pCi/L							U
Gross Beta precision (±)	2	pCi/L							
Gross Beta MDC	2	pCi/L							
Sample ID: Th230-GrAB-0827	Laboratory Control Sample				Run: SUB-C129405			02/05/10 11:47	
Gross Alpha	100	pCi/L	99		70	130			
Sample ID: Cs137-GrAB-0827	Laboratory Control Sample				Run: SUB-C129405			02/05/10 11:47	
Gross Beta	74	pCi/L	87		70	130			
Sample ID: C10010313-009AMS	Sample Matrix Spike				Run: SUB-C129405			02/05/10 11:48	
Gross Alpha	100	pCi/L	101		70	130			
Sample ID: C10010313-009AMSD	Sample Matrix Spike Duplicate				Run: SUB-C129405			02/05/10 11:48	
Gross Alpha	100	pCi/L	104		70	130	2.6	17	
Sample ID: C10010313-009AMS	Sample Matrix Spike				Run: SUB-C129405			02/05/10 11:48	
Gross Beta	96	pCi/L	111		70	130			
Sample ID: C10010313-009AMSD	Sample Matrix Spike Duplicate				Run: SUB-C129405			02/06/10 01:58	
Gross Beta	88	pCi/L	102		70	130	8.7	16.4	

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R128951		
Sample ID: LCS-R128951	Laboratory Control Sample			Run: SUB-C128951			01/23/10 20:28		
Americium 241	730	pCi/L	20	83	70	130			
Barium 133	550	pCi/L	20	98	70	130			
Cesium 137	890	pCi/L	20	97	70	130			
Potassium 40	2700	pCi/L	20	82	70	130			
Sample ID: MB-R128951	Method Blank			Run: SUB-C128951			01/23/10 20:28		
Gross Gamma	ND	pCi/L							U
Sample ID: R10010180-002H	Sample Duplicate			Run: SUB-C128951			01/23/10 20:28		
Gross Gamma	830	pCi/L					1.3	30	
Gross Gamma precision (±)	130	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-4321		
Sample ID: C10010728-001DMIS	Sample Matrix Spike				Run: SUB-C129197				02/02/10 12:51
Radium 226	18.2	pCi/L	91		70	130			
Sample ID: C10010728-001DMISD	Sample Matrix Spike Duplicate				Run: SUB-C129197				02/02/10 12:51
Radium 226	17.1	pCi/L	83		70	130	6.6	23.7	
Sample ID: MB-RA226-4321	Method Blank				Run: SUB-C129197				02/02/10 14:22
Radium 226	-0.07	pCi/L							U
Radium 226 precision (±)	0.09	pCi/L							
Radium 226 MDC	0.2	pCi/L							
Sample ID: LCS-RA226-4321	Laboratory Control Sample				Run: SUB-C129197				02/02/10 14:22
Radium 226	9.1	pCi/L	117		70	130			
Method: E903.0							Batch: C_R129243		
Sample ID: C10010546-012AMS	Sample Matrix Spike				Run: SUB-C129243				02/03/10 13:28
Radium 226	8.6	pCi/g-dry	113		70	130			
Sample ID: C10010546-012AMSD	Sample Matrix Spike Duplicate				Run: SUB-C129243				02/03/10 13:28
Radium 226	8.0	pCi/g-dry	102		70	130	7.5	24.2	
Sample ID: LCS-25024	Laboratory Control Sample				Run: SUB-C129243				02/03/10 13:28
Radium 226	1.7	pCi/g-dry	112		70	130			
Sample ID: MB-25024	Method Blank				Run: SUB-C129243				02/03/10 13:28
Radium 226	-0.0003	pCi/g-dry							U
Radium 226 precision (±)	0.0002	pCi/g-dry							
Radium 226 MDC	0.0004	pCi/g-dry							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-1079		
Sample ID: LCS-RA-TH-ISO-1079	Laboratory Control Sample				Run: SUB-C129046				01/26/10 09:42
Thorium 230	5.2	pCi/L		94	70	130			
Sample ID: C10010532-002AMS	Sample Matrix Spike				Run: SUB-C129046				01/26/10 09:42
Thorium 230	11	pCi/L		87	70	130			
Sample ID: C10010532-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C129046				01/26/10 09:42
Thorium 230	14	pCi/L		108	70	130	22	44.5	
Sample ID: MB-RA-TH-ISO-1079	Method Blank				Run: SUB-C129046				01/26/10 09:42
Thorium 230	0.02	pCi/L							U
Thorium 230 MDC	0.1	pCi/L							
Thorium 230 precision (±)	0.07	pCi/L							
Method: E907.0							Batch: C_R129307		
Sample ID: LCS-25076	Laboratory Control Sample				Run: SUB-C129307				02/02/10 15:49
Thorium 230	5.8	pCi/L		120	70	130			
Sample ID: MB-25076	Method Blank				Run: SUB-C129307				02/02/10 15:49
Thorium 230	-0.1	pCi/L							U
Thorium 230 MDC	0.2	pCi/L							
Thorium 230 precision (±)	0.10	pCi/L							
Sample ID: TAP WATER-MS	Sample Matrix Spike				Run: SUB-C129307				02/02/10 15:49
Thorium 230	5.2	pCi/L		101	70	130			
Sample ID: TAP WATER-MSD	Sample Matrix Spike Duplicate				Run: SUB-C129307				02/02/10 15:49
Thorium 230	5.9	pCi/L		114	70	130	14	35.3	

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 02/27/10
 Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_PB-210-0652		
Sample ID: C09071013-004DMS	Sample Matrix Spike					Run: SUB-C129676			02/09/10 11:19
Lead 210	220	pCi/L		95	70	130			
Sample ID: C09071013-004DMSD	Sample Matrix Spike Duplicate					Run: SUB-C129676			02/09/10 11:19
Lead 210	260	pCi/L		118	70	130	21	17.3	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.									
Sample ID: MB-PB-210-0652	Method Blank					Run: SUB-C129676			02/09/10 11:19
Lead 210	0.4	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	6	pCi/L							
Sample ID: LCS-PB-210-0652	Laboratory Control Sample					Run: SUB-C129676			02/09/10 11:19
Lead 210	120	pCi/L		103	70	130			
Method: E909.0M							Batch: C_25076		
Sample ID: C10010532-003DMS	Sample Matrix Spike					Run: SUB-C129677			02/09/10 11:19
Lead 210	93	pCi/L		98	70	130			
Sample ID: C10010532-003DMSD	Sample Matrix Spike Duplicate					Run: SUB-C129677			02/09/10 11:19
Lead 210	98	pCi/L		104	70	130	5.8	16.6	
Sample ID: MB-25076	Method Blank					Run: SUB-C129677			02/09/10 11:19
Lead 210	5	pCi/L							U
Lead 210 precision (±)	10	pCi/L							
Lead 210 MDC	20	pCi/L							
Sample ID: LCS-25076	Laboratory Control Sample					Run: SUB-C129677			02/09/10 11:19
Lead 210	490	pCi/L		86	70	130			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0							Batch: C_PO210-0281		
Sample ID: C10020209-003DMS	Sample Matrix Spike					Run: SUB-C129833			02/17/10 15:45
Polonium 210	33	pCi/L	100		70	130			
Sample ID: C10020209-003DMSD	Sample Matrix Spike Duplicate					Run: SUB-C129833			02/17/10 15:45
Polonium 210	34	pCi/L	104		70	130	4.2	55.8	
Sample ID: LCS-PO210-0281	Method Blank					Run: SUB-C129833			02/19/10 08:46
Polonium 210	0.10	pCi/L							U
Polonium 210 MDC	0.8	pCi/L							
Polonium 210 precision (±)	0.4	pCi/L							
Sample ID: MB-PO210-0281	Laboratory Control Sample					Run: SUB-C129833			02/19/10 08:46
Polonium 210	13	pCi/L	78		70	130			
Method: E912.0							Batch: C_R129834		
Sample ID: LCS-25076	Laboratory Control Sample					Run: SUB-C129834			02/17/10 08:48
Polonium 210	95	pCi/L	120		70	130			
Sample ID: MB-25076	Method Blank					Run: SUB-C129834			02/17/10 08:48
Polonium 210	0.2	pCi/L							U
Polonium 210 precision (±)	1	pCi/L							
Polonium 210 MDC	3	pCi/L							
Sample ID: C10020209-003EMS	Sample Matrix Spike					Run: SUB-C129834			02/17/10 11:59
Polonium 210	25	pCi/L	120		70	130			
Sample ID: C10020209-003EMSD	Sample Matrix Spike Duplicate					Run: SUB-C129834			02/17/10 11:59
Polonium 210	19	pCi/L	91		70	130	27	61.3	

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 02/27/10
Work Order: R10010180

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: SW7470A							Analytical Run: SUB-B142124			
Sample ID: QCS	Initial Calibration Verification Standard									
Mercury	0.0020	mg/L	0.0010	98	90	110			01/21/10 14:35	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



Chain of Custody and Analytical Request Record

Page of

PLEASE PRINT - Provide as much information as possible.

Company Name: Scott Environmental Project Name, PWS, Permit, Etc.: Power Tech, Inc. EPA/State Compliance: Yes No

Report Mail Address: Allen Scott Contact Name: Allen Scott Phone/Fax: Email: Sampler: (Please Print) Allen Scott

Invoice Address: Power Tech Invoice Contact & Phone: Purchase Order: Quoter/Bottle Order:

Special Reports/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA EDD/EDT (Electronic Data) GSA POTM/MWTP State: Other:

Number of Containers: Sample Type: AWSD Vegetation: Air/Water/Soil/Solids: Other:

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED												Comments	Shipped by: Cooler (Ile):
				Normal Turnaround (TAT)													
1 <u>DQ-09-21-01</u>	<u>1-18-10</u>	<u> </u>	<u>water</u>	<u>SEE ATTACHED</u>												<u>R</u>	LABORATORY USE ONLY P101080-001 002
2 <u>09-09-21-02</u>	<u>1-18-10</u>	<u> </u>	<u>water</u>	<u>SEE ATTACHED</u>												<u>U</u>	
3				<u>SEE ATTACHED</u>												<u>S</u>	
4				<u>SEE ATTACHED</u>												<u>H</u>	
5				<u>SEE ATTACHED</u>													
6				<u>SEE ATTACHED</u>													
7				<u>SEE ATTACHED</u>													
8				<u>SEE ATTACHED</u>													
9				<u>SEE ATTACHED</u>													
10				<u>SEE ATTACHED</u>													

Received by (print): Allen Scott Date/Time: 1-19-10 10:24 Signature: Allen Scott

Received by (print): Steve Fairland Date/Time: 1-19-10 10:26 Signature: Steve Fairland

Signature: Allen Scott Date/Time:

Signature: Steve Fairland Date/Time:

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fees schedule, forms, and links



ANALYTICAL SUMMARY REPORT

September 10, 2010

Mark Hollenbeck
Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10020266

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 2/23/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10020266-001	DB-09-21-01	02/22/10 0:00	02/23/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10020266-002	DB-09-21-02	02/22/10 0:00	02/23/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2010.09.10 10:34:07 -06:00



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10020266

Revised Date: 09/10/10

Report Date: 03/29/10

CASE NARRATIVE

Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

Tests Associated with Analyst identified as ELI-CA were subcontracted to Energy Laboratories Casper Branch, EPA Number WY00002.

Comments imported for SUBBED Workorder: C10020811

PB210 ANALYSIS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

End of comments imported for SUBBED Workorder: C10020811

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

This report is being re-issued due to a change in the report that was made following the original issuance of the report. The reason for this re-issuance is due to the following.

- The Gross Gamma was re-reported

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10020266-001
Client Sample ID: DB-09-21-01

Revised Date: 09/10/10
Report Date: 03/29/10
Collection Date: 02/22/10
Date Received: 02/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	36	mg/L		5		1	A2320 B	03/01/10 12:25/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/01/10 12:25/mb
Bicarbonate as HCO3	39	mg/L		5		1	A2320 B	03/01/10 12:25/mb
Calcium	54	mg/L	D	1		5	E200.7	03/04/10 18:59/eli-c
Chloride	7.2	mg/L		0.5		1	E300.0	02/23/10 20:06/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	02/23/10 20:06/jmh
Magnesium	22.5	mg/L		0.5		5	E200.7	03/04/10 18:59/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	02/26/10 14:13/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/23/10 20:06/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/23/10 20:06/jmh
Potassium	12.9	mg/L		0.5		5	E200.7	03/04/10 18:59/eli-c
Sodium	162	mg/L	D	1		5	E200.7	03/04/10 18:59/eli-c
Sulfate	495	mg/L		1		20	E300.0	02/23/10 19:50/jmh
Silica	7.8	mg/L		0.2		5	E200.7	03/04/10 18:59/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1570	umhos/cm		5.0		1	A2510 B	03/02/10 15:46/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	03/01/10 15:00/jmh
pH	9.34	s.u.		0.01		1	A4500-H B	02/25/10 10:14/tb
Sodium Adsorption Ratio (SAR)	4.7	unitless		0.10		1	Calculation	03/19/10 08:36/ADM
Solids, Total Dissolved TDS @ 180 C	840	mg/L		5		1	A2540 C	02/25/10 15:59/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/26/10 21:33/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/26/10 21:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/26/10 21:33/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/04/10 18:59/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/26/10 21:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/26/10 21:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/26/10 21:33/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/04/10 18:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/26/10 21:33/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	02/26/10 21:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/26/10 21:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/26/10 21:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/26/10 21:33/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/10 15:28/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	02/26/10 21:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/26/10 21:33/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10020266-001
Client Sample ID: DB-09-21-01

Revised Date: 09/10/10
Report Date: 03/29/10
Collection Date: 02/22/10
Date Received: 02/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	02/26/10 21:33/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	02/26/10 21:33/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	02/26/10 21:33/eli-c
METALS - SUSPENDED							
Uranium	0.0015	mg/L	B	0.0003		1 E200.8	03/06/10 00:29/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/25/10 13:50/eli-ca
Selenium-VI	ND	mg/L		0.001		1 A3114 B	02/25/10 15:50/eli-ca
RADIONUCLIDES - DISSOLVED							
Gross Alpha	1.1	pCi/L	U			1 E900.0	03/05/10 00:36/eli-ca
Gross Alpha precision (±)	2.3	pCi/L				1 E900.0	03/05/10 00:36/eli-ca
Gross Alpha MDC	3.8	pCi/L				1 E900.0	03/05/10 00:36/eli-ca
Gross Beta	6.7	pCi/L				1 E900.0	03/05/10 00:36/eli-ca
Gross Beta precision (±)	2.3	pCi/L				1 E900.0	03/05/10 00:36/eli-ca
Gross Beta MDC	3.6	pCi/L				1 E900.0	03/05/10 00:36/eli-ca
Lead 210	-0.1	pCi/L	U			1 E909.0M	03/12/10 08:14/eli-c
Lead 210 precision (±)	0.8	pCi/L				1 E909.0M	03/12/10 08:14/eli-c
Lead 210 MDC	1.3	pCi/L				1 E909.0M	03/12/10 08:14/eli-c
Polonium 210	0.050	pCi/L	U			1 E912.0	03/15/10 08:48/eli-ca
Polonium 210 MDC	0.38	pCi/L				1 E912.0	03/15/10 08:48/eli-ca
Polonium 210 precision (±)	0.19	pCi/L				1 E912.0	03/15/10 08:48/eli-ca
Radium 226	0.8	pCi/L				1 E903.0	03/09/10 13:45/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	03/09/10 13:45/eli-c
Radium 226 MDC	0.2	pCi/L				1 E903.0	03/09/10 13:45/eli-c
Thorium 230	0.01	pCi/L	U			1 E907.0	03/08/10 16:08/eli-ca
Thorium 230 MDC	0.2	pCi/L				1 E907.0	03/08/10 16:08/eli-ca
Thorium 230 precision (±)	0.08	pCi/L				1 E907.0	03/08/10 16:08/eli-ca
Gross Gamma	ND	pCi/L		20		1 E901.1	02/26/10 17:33/eli-ca
Gross Gamma precision (±)	ND	pCi/L				1 E901.1	02/26/10 17:33/eli-ca
RADIONUCLIDES - SUSPENDED							
Lead 210	0.2	pCi/L	U			1 E909.0M	03/23/10 07:42/eli-c
Lead 210 precision (±)	1.6	pCi/L				1 E909.0M	03/23/10 07:42/eli-c
Lead 210 MDC	2.7	pCi/L				1 E909.0M	03/23/10 07:42/eli-c
Polonium 210	0.069	pCi/L	U			1 E912.0	03/15/10 12:17/eli-ca
Polonium 210 precision (±)	0.26	pCi/L				1 E912.0	03/15/10 12:17/eli-ca

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 B - The analyte was detected in the method blank.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10020266-001
Client Sample ID: DB-09-21-01

Revised Date: 09/10/10
Report Date: 03/29/10
Collection Date: 02/22/10
Date Received: 02/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Polonium 210 MDC	0.53	pCi/L				1 E912.0	03/15/10 12:17/eli-ca
Radium 226	0.03	pCi/L	U			1 E903.0	03/09/10 17:27/eli-ca
Radium 226 precision (±)	0.07	pCi/L				1 E903.0	03/09/10 17:27/eli-ca
Radium 226 MDC	0.1	pCi/L				1 E903.0	03/09/10 17:27/eli-ca
Thorium 230	-0.07	pCi/L	U			1 E907.0	03/09/10 13:24/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1 E907.0	03/09/10 13:24/eli-c
- See Case Narrative regarding Pb210 analysis.							
RADIONUCLIDES - TOTAL							
Radon 222	ND	pCi/L		100		1 D5072-92	02/24/10 00:00/lkl
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	02/26/10 22:21/eli-c
Arsenic	ND	mg/L		0.001		1 E200.8	02/26/10 22:21/eli-c
Barium	ND	mg/L		0.1		1 E200.8	02/26/10 22:21/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	02/26/10 22:21/eli-c
Boron	ND	mg/L		0.1		5 E200.8	03/02/10 22:17/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	02/26/10 22:21/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	02/26/10 22:21/eli-c
Copper	ND	mg/L		0.01		1 E200.8	02/26/10 22:21/eli-c
Iron	ND	mg/L		0.03		5 E200.8	03/02/10 22:17/eli-c
Lead	ND	mg/L		0.001		1 E200.8	02/26/10 22:21/eli-c
Manganese	ND	mg/L		0.01		1 E200.8	02/26/10 22:21/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	02/25/10 15:01/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	02/26/10 22:21/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	02/26/10 22:21/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	02/26/10 22:21/eli-c
Silver	ND	mg/L		0.005		1 E200.8	02/26/10 22:21/eli-c
Strontium	2.2	mg/L		0.1		1 E200.8	02/26/10 22:21/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	02/26/10 22:21/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	02/26/10 22:21/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	02/26/10 22:21/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.90	%				1 A1030 E	03/22/10 00:00/jmh
Anions	11.2	meq/L				1 A1030 E	03/22/10 00:00/jmh
Cations	11.9	meq/L				1 A1030 E	03/22/10 00:00/jmh
Solids, Total Dissolved Calculated	1130	mg/L				1 A1030 E	03/22/10 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06					1 A1030 E	03/22/10 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10020266-002
Client Sample ID: DB-09-21-02

Revised Date: 09/10/10
Report Date: 03/29/10
Collection Date: 02/22/10
Date Received: 02/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	190	mg/L		5		1	A2320 B	03/01/10 12:38/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/01/10 12:38/mb
Bicarbonate as HCO3	232	mg/L		5		1	A2320 B	03/01/10 12:38/mb
Calcium	166	mg/L	D	1		5	E200.7	03/04/10 19:23/eli-c
Chloride	9.9	mg/L		0.5		1	E300.0	02/23/10 20:39/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	02/23/10 20:39/jmh
Magnesium	48.0	mg/L		0.5		5	E200.7	03/04/10 19:23/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/26/10 14:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/23/10 20:39/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	02/23/10 20:39/jmh
Potassium	12.3	mg/L		0.5		5	E200.7	03/04/10 19:23/eli-c
Sodium	126	mg/L	D	1		5	E200.7	03/04/10 19:23/eli-c
Sulfate	677	mg/L		1		20	E300.0	02/23/10 20:23/jmh
Silica	8.8	mg/L		0.2		5	E200.7	03/04/10 19:23/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1160	umhos/cm		5.0		1	A2510 B	03/02/10 15:50/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B	03/01/10 15:00/jmh
pH	7.57	s.u.		0.01		1	A4500-H B	02/25/10 10:17/tb
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10		1	Calculation	03/19/10 08:36/ADM
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C	02/25/10 15:59/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/26/10 22:48/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	02/26/10 22:48/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/26/10 22:48/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/04/10 19:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/26/10 22:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/26/10 22:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/26/10 22:48/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/04/10 19:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/26/10 22:48/eli-c
Manganese	0.48	mg/L		0.01		1	E200.8	02/26/10 22:48/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/26/10 22:48/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/26/10 22:48/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/26/10 22:48/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	02/25/10 15:31/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	02/26/10 22:48/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/26/10 22:48/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10020266-002
Client Sample ID: DB-09-21-02

Revised Date: 09/10/10
Report Date: 03/29/10
Collection Date: 02/22/10
Date Received: 02/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0079	mg/L		0.0003		1	E200.8	02/26/10 22:48/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/26/10 22:48/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/26/10 22:48/eli-c
METALS - SUSPENDED								
Uranium	0.0011	mg/L	B	0.0003		1	E200.8	03/06/10 00:35/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/25/10 13:53/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/25/10 15:50/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	37.9	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Alpha precision (±)	5.9	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Alpha MDC	6.1	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Beta	27.5	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Beta precision (±)	4.0	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Gross Beta MDC	5.9	pCi/L				1	E900.0	03/05/10 00:36/eli-ca
Lead 210	-0.1	pCi/L	U			1	E909.0M	03/12/10 10:16/eli-c
Lead 210 precision (±)	0.8	pCi/L				1	E909.0M	03/12/10 10:16/eli-c
Lead 210 MDC	1.3	pCi/L				1	E909.0M	03/12/10 10:16/eli-c
Polonium 210	0.23	pCi/L	U			1	E912.0	03/15/10 08:48/eli-ca
Polonium 210 MDC	0.64	pCi/L				1	E912.0	03/15/10 08:48/eli-ca
Polonium 210 precision (±)	0.39	pCi/L				1	E912.0	03/15/10 08:48/eli-ca
Radium 226	2.3	pCi/L				1	E903.0	03/09/10 13:45/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/09/10 13:45/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	03/09/10 13:45/eli-c
Thorium 230	-0.01	pCi/L	U			1	E907.0	03/08/10 16:08/eli-ca
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/08/10 16:08/eli-ca
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	03/08/10 16:08/eli-ca
Gross Gamma	ND	pCi/L		20		1	E901.1	02/26/10 17:33/eli-ca
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	02/26/10 17:33/eli-ca
RADIONUCLIDES - SUSPENDED								
Lead 210	0.3	pCi/L	U			1	E909.0M	03/23/10 07:42/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	03/23/10 07:42/eli-c
Lead 210 MDC	2.8	pCi/L				1	E909.0M	03/23/10 07:42/eli-c
Polonium 210	-0.096	pCi/L	U			1	E912.0	03/15/10 12:17/eli-ca
Polonium 210 precision (±)	0.26	pCi/L				1	E912.0	03/15/10 12:17/eli-ca

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 B - The analyte was detected in the method blank.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10020266-002
Client Sample ID: DB-09-21-02

Revised Date: 09/10/10
Report Date: 03/29/10
Collection Date: 02/22/10
Date Received: 02/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.73	pCi/L				1	E912.0	03/15/10 12:17/eli-ca
Radium 226	0.07	pCi/L	U			1	E903.0	03/09/10 17:27/eli-ca
Radium 226 precision (±)	0.07	pCi/L				1	E903.0	03/09/10 17:27/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	03/09/10 17:27/eli-ca
Thorium 230	-0.07	pCi/L	U			1	E907.0	03/09/10 13:24/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	03/09/10 13:24/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	313	pCi/L		100		1	D5072-92	02/24/10 00:00/kl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	02/26/10 22:55/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	02/26/10 22:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/26/10 22:55/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	02/26/10 22:55/eli-c
Boron	ND	mg/L		0.1		5	E200.8	03/02/10 22:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/26/10 22:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/26/10 22:55/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/26/10 22:55/eli-c
Iron	0.07	mg/L		0.03		5	E200.8	03/02/10 22:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/26/10 22:55/eli-c
Manganese	0.50	mg/L		0.01		1	E200.8	02/26/10 22:55/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	02/25/10 15:03/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	02/26/10 22:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/26/10 22:55/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	02/26/10 22:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/26/10 22:55/eli-c
Strontium	2.5	mg/L		0.1		1	E200.8	02/26/10 22:55/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	02/26/10 22:55/eli-c
Uranium	0.0080	mg/L		0.0003		1	E200.8	02/26/10 22:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/26/10 22:55/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.440	%				1	A1030 E	03/22/10 00:00/jmh
Anions	18.2	meq/L				1	A1030 E	03/22/10 00:00/jmh
Cations	18.0	meq/L				1	A1030 E	03/22/10 00:00/jmh
Solids, Total Dissolved Calculated	1540	mg/L				1	A1030 E	03/22/10 00:00/jmh
TDS Balance (0.80 - 1.20)	1.08					1	A1030 E	03/22/10 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 100301A-ALK-SEL-W		
Sample ID: LCS1_100301A Alkalinity, Total as CaCO3	Laboratory Control Sample 956	mg/L	5.0	96	90	110			03/01/10 11:16
Sample ID: MBLK1_100301A Alkalinity, Total as CaCO3	Method Blank ND	mg/L	3						03/01/10 11:18
Sample ID: R10020303-004BMS Alkalinity, Total as CaCO3	Sample Matrix Spike 1330	mg/L	6.1	96	80	120			03/01/10 14:40
Sample ID: R10020303-004BMSD Alkalinity, Total as CaCO3	Sample Matrix Spike Duplicate 1340	mg/L	6.1	100	80	120	0.6	10	03/01/10 14:55

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B									Batch: 100302_1_COND-PROBE-W
Sample ID: LCS1-1_100302 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_100302B 03/02/10 15:36
Sample ID: LCS2-1_100302 Conductivity @ 25 C	Laboratory Control Sample 5010	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_100302B 03/02/10 15:38
Sample ID: MBLK-1_100302 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						Run: PH_COND2-R_100302B 03/02/10 15:42
Sample ID: LCS_COND-1_100302 Conductivity @ 25 C	Laboratory Control Sample 1420	umhos/cm	5.0	100	90	110			Run: PH_COND2-R_100302B 03/02/10 15:44
Sample ID: R10020266-001ADUP Conductivity @ 25 C	Sample Duplicate 1570	umhos/cm	5.0				0	10	Run: PH_COND2-R_100302B 03/02/10 15:48

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 100225A-SLDS-TDS-W		
Sample ID: LCS1_100225A	Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C	220	mg/L	10	106	90	110			02/25/10 15:58
Sample ID: MBLK1_100225A	Method Blank								
Solids, Total Dissolved TDS @ 180 C	6	mg/L	5						02/25/10 15:58
Sample ID: R10020306-002DMS	Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C	3100	mg/L	10	100	80	120			02/25/10 16:05
Sample ID: R10020306-002DMSD	Sample Matrix Spike Duplicate								
Solids, Total Dissolved TDS @ 180 C	3100	mg/L	10	99	80	120	0.3	10	02/25/10 16:05

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 100301-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND2-R_100301A		03/01/10 15:00		
Oxidation-Reduction Potential	470	mV		100	95	105			
Sample ID: R10020266-001F	Sample Duplicate				Run: PH_COND2-R_100301A		03/01/10 15:00		
Oxidation-Reduction Potential	220	mV					2.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Analytical Run: SUB-C130009		
Sample ID: As/Se 1.0ppm-Q 02231	Initial Calibration Verification Standard						02/25/10 13:36		
Selenium-IV	0.051	mg/L	0.0010	103	90	110			
Method: A3114 B							Batch: C_SE3114-100225A		
Sample ID: MBLK	Method Blank				Run: SUB-C130009		02/25/10 13:42		
Selenium-IV	ND	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 02231	Laboratory Control Sample				Run: SUB-C130009		02/25/10 13:45		
Selenium-IV	0.051	mg/L	0.0010	102	90	110			
Sample ID: R10020266-002E	Sample Matrix Spike				Run: SUB-C130009		02/25/10 13:57		
Selenium-IV	0.048	mg/L	0.0010	97	85	115			
Sample ID: R10020266-002E	Sample Matrix Spike Duplicate				Run: SUB-C130009		02/25/10 14:00		
Selenium-IV	0.050	mg/L	0.0010	99	85	115	2.4	10	
Method: A3114 B							Analytical Run: SUB-C130017		
Sample ID: As/Se 1.0ppm-Q 02231	Initial Calibration Verification Standard						02/25/10 15:14		
Selenium	0.053	mg/L	0.0010	106	90	110			
Method: A3114 B							Batch: C_SE3114-100225B		
Sample ID: MBLK	Method Blank				Run: SUB-C130017		02/25/10 15:21		
Selenium	0.0005	mg/L	0.0002						
Sample ID: As/Se 1.0ppm-Q 02231	Laboratory Control Sample				Run: SUB-C130017		02/25/10 15:24		
Selenium	0.052	mg/L	0.0010	103	90	110			
Sample ID: R10020266-002E	Sample Matrix Spike				Run: SUB-C130017		02/25/10 15:33		
Selenium	0.049	mg/L	0.0010	96	85	115			
Sample ID: R10020266-002E	Sample Matrix Spike Duplicate				Run: SUB-C130017		02/25/10 15:35		
Selenium	0.049	mg/L	0.0010	97	85	115	0.6	15	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 100225_1_PH-W		
Sample ID: LCS_pH-1_100225	Laboratory Control Sample				Run: PH_COND2-R_100225A		02/25/10 10:02		
pH	7.23	s.u.	0.010	98	98.55	101.45			
Sample ID: R10020245-001ADUP	Sample Duplicate				Run: PH_COND2-R_100225A		02/25/10 10:10		
pH	6.49	s.u.	0.010				0.2	1.25	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2010-02-26_2_NH3_01		
Sample ID: MBLK-2 Nitrogen, Ammonia as N	Method Blank ND	mg/L	0.01						Run: TECHAA2-R_100226A 02/26/10 11:00
Sample ID: LFB-3 Nitrogen, Ammonia as N	Laboratory Fortified Blank 0.25	mg/L	0.10	99	90	110			Run: TECHAA2-R_100226A 02/26/10 11:01
Sample ID: R10020231-002CMS Nitrogen, Ammonia as N	Sample Matrix Spike 0.22	mg/L	0.10	90	80	120			Run: TECHAA2-R_100226A 02/26/10 13:56
Sample ID: R10020231-002CMSD Nitrogen, Ammonia as N	Sample Matrix Spike Duplicate 0.23	mg/L	0.10	93	80	120	3.1	10	Run: TECHAA2-R_100226A 02/26/10 13:58

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Analytical Run: SUB-C130316		
Sample ID: ICV	Initial Calibration Verification Standard							03/04/10 10:01	
Silicon	5.1	mg/L	0.0073	102	95	105			
Boron	2.5	mg/L	0.10	101	95	105			
Calcium	25	mg/L	0.50	100	95	105			
Iron	2.5	mg/L	0.030	99	95	105			
Magnesium	25	mg/L	0.50	98	95	105			
Potassium	25	mg/L	0.50	99	95	105			
Sodium	25	mg/L	0.50	99	95	105			
Sample ID: ICSA	Interference Check Sample A							03/04/10 10:17	
Silicon	0.0039	mg/L	0.0073		0	0			
Boron	0.45	mg/L	0.10		0	0			
Calcium	490	mg/L	0.50	97	90	110			
Iron	180	mg/L	0.030	91	90	110			
Magnesium	510	mg/L	0.50	102	90	110			
Potassium	-0.0012	mg/L	0.50		0	0			
Sodium	0.13	mg/L	0.50		0	0			
Sample ID: ICSAB	Interference Check Sample AB							03/04/10 10:21	
Silicon	0.0025	mg/L	0.0073		0	0			
Boron	0.034	mg/L	0.10		0	0			
Calcium	490	mg/L	0.50	98	90	110			
Iron	200	mg/L	0.11	99	90	110			
Magnesium	510	mg/L	0.50	102	90	110			
Potassium	0.00040	mg/L	0.50		0	0			
Sodium	0.025	mg/L	0.50		0	0			
Method: E200.7							Batch: C_R130316		
Sample ID: MB-100304A	Method Blank							Run: SUB-C130316 03/04/10 10:45	
Silicon	ND	mg/L	0.007						
Boron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.2						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.05						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.3						
Sample ID: LFB-100304A	Laboratory Fortified Blank							Run: SUB-C130316 03/04/10 10:49	
Silicon	0.45	mg/L	0.0075	95	85	115			
Boron	0.98	mg/L	0.10	98	85	115			
Calcium	49	mg/L	0.50	98	85	115			
Iron	0.96	mg/L	0.030	96	85	115			
Magnesium	48	mg/L	0.50	97	85	115			
Potassium	45	mg/L	0.50	90	85	115			
Sodium	49	mg/L	0.50	98	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R130316		
Sample ID: LFB-100304A	Laboratory Fortified Blank			Run: SUB-C130316			03/04/10 10:49		
Sample ID: R10020266-001C	Sample Matrix Spike			Run: SUB-C130316			03/04/10 19:03		
Boron	5.24	mg/L	0.10	103	70	130			
Iron	5.09	mg/L	0.030	100	70	130			
Silicon	6.00	mg/L	0.10	117	70	130			
Calcium	306	mg/L	1.1	99	70	130			
Magnesium	268	mg/L	1.0	96	70	130			
Potassium	254	mg/L	1.0	95	70	130			
Sodium	414	mg/L	1.4	99	70	130			
Sample ID: R10020266-001C	Sample Matrix Spike Duplicate			Run: SUB-C130316			03/04/10 19:07		
Boron	5.24	mg/L	0.10	103	70	130	0	20	
Iron	4.90	mg/L	0.030	96	70	130	4	20	
Silicon	5.74	mg/L	0.10	104	70	130	4.5	20	
Calcium	299	mg/L	1.1	96	70	130	2.2	20	
Magnesium	262	mg/L	1.0	94	70	130	2.3	20	
Potassium	251	mg/L	1.0	93	70	130	1.2	20	
Sodium	416	mg/L	1.4	100	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Analytical Run: SUB-C130108		
Sample ID: ICV	Initial Calibration Verification Standard							02/26/10 13:18	
Aluminum	0.0499	mg/L	0.0022	100	90	110			
Antimony	0.0507	mg/L	0.0010	101	90	110			
Arsenic	0.0501	mg/L	0.0010	100	90	110			
Barium	0.0511	mg/L	0.0010	102	90	110			
Beryllium	0.0506	mg/L	0.0010	101	90	110			
Cadmium	0.0510	mg/L	0.0010	102	90	110			
Chromium	0.0505	mg/L	0.0010	101	90	110			
Copper	0.0508	mg/L	0.0010	102	90	110			
Lead	0.0499	mg/L	0.0010	100	90	110			
Manganese	0.0502	mg/L	0.0010	100	90	110			
Mercury	0.00531	mg/L	0.0010	106	90	110			
Molybdenum	0.0520	mg/L	0.0010	104	90	110			
Nickel	0.0501	mg/L	0.0010	100	90	110			
Selenium	0.248	mg/L	0.0014	99	90	110			
Silver	0.0531	mg/L	0.0010	106	90	110			
Strontium	0.0499	mg/L	0.0010	100	90	110			
Thallium	0.0497	mg/L	0.0010	99	90	110			
Thorium 232	0.0460	mg/L	0.0010	92	90	110			
Uranium	0.0516	mg/L	0.00030	103	90	110			
Vanadium	0.0495	mg/L	0.0010	99	90	110			
Zinc	0.0509	mg/L	0.0010	102	90	110			
Sample ID: ICSA	Interference Check Sample A							02/26/10 13:25	
Aluminum	0.984	mg/L	0.0022	98	80	120			
Antimony	0.000493	mg/L	0.0010		0	0			
Arsenic	2.49E-05	mg/L	0.0010		0	0			
Barium	3.10E-05	mg/L	0.0010		0	0			
Beryllium	3.80E-06	mg/L	0.0010		0	0			
Cadmium	1.67E-05	mg/L	0.0010		0	0			
Chromium	2.08E-05	mg/L	0.0010		0	0			
Copper	-0.000225	mg/L	0.0010		0	0			
Lead	7.90E-06	mg/L	0.0010		0	0			
Manganese	3.49E-05	mg/L	0.0010		0	0			
Mercury	6.41E-05	mg/L	0.0010		0	0			
Molybdenum	0.0202	mg/L	0.0010	101	80	120			
Nickel	4.50E-06	mg/L	0.0010		0	0			
Selenium	0.000143	mg/L	0.0014		0	0			
Silver	0.000386	mg/L	0.0010		0	0			
Strontium	2.80E-05	mg/L	0.0010		0	0			
Thallium	1.74E-05	mg/L	0.0010		0	0			
Thorium 232	0.000874	mg/L	0.0010		0	0			
Uranium	7.10E-06	mg/L	0.00030		0	0			
Vanadium	1.01E-05	mg/L	0.0010		0	0			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Analytical Run: SUB-C130108		
Sample ID: ICSA	Interference Check Sample A								02/26/10 13:25
Zinc	0.000202	mg/L	0.0010		0	0			
Sample ID: ICSAB	Interference Check Sample AB								02/26/10 13:31
Aluminum	0.984	mg/L	0.0022	98	70	130			
Antimony	0.000126	mg/L	0.0010		0	0			
Arsenic	0.0104	mg/L	0.0010	104	70	130			
Barium	5.51E-05	mg/L	0.0010		0	0			
Beryllium	1.30E-05	mg/L	0.0010		0	0			
Cadmium	0.0103	mg/L	0.0010	103	70	130			
Chromium	0.0103	mg/L	0.0010	103	70	130			
Copper	0.0101	mg/L	0.0010	101	70	130			
Lead	1.36E-05	mg/L	0.0010		0	0			
Manganese	0.0101	mg/L	0.0010	101	70	130			
Mercury	2.40E-05	mg/L	0.0010		0	0			
Molybdenum	0.0206	mg/L	0.0010	103	70	130			
Nickel	0.0101	mg/L	0.0010	101	70	130			
Selenium	0.000145	mg/L	0.0014		0	0			
Silver	0.00991	mg/L	0.0010	99	70	130			
Strontium	3.83E-05	mg/L	0.0010		0	0			
Thallium	6.00E-06	mg/L	0.0010		0	0			
Thorium 232	0.000331	mg/L	0.0010		0	0			
Uranium	1.00E-07	mg/L	0.00030		0	0			
Vanadium	-0.000193	mg/L	0.0010		0	0			
Zinc	0.0104	mg/L	0.0010	104	70	130			

Method: E200.8							Batch: C_R130108			
Sample ID: LRB	Method Blank								Run: SUB-C130108	02/26/10 14:05
Aluminum	ND	mg/L	0.002							
Antimony	ND	mg/L	0.0001							
Arsenic	ND	mg/L	0.0003							
Barium	ND	mg/L	3E-05							
Beryllium	ND	mg/L	6E-05							
Cadmium	ND	mg/L	6E-05							
Chromium	ND	mg/L	8E-05							
Copper	ND	mg/L	4E-05							
Lead	ND	mg/L	2E-05							
Manganese	ND	mg/L	5E-05							
Mercury	ND	mg/L	4E-05							
Molybdenum	ND	mg/L	4E-05							
Nickel	ND	mg/L	9E-05							
Selenium	ND	mg/L	0.001							
Silver	0.0002	mg/L	2E-05							
Strontium	ND	mg/L	2E-05							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R130108		
Sample ID: LRB	Method Blank		Run: SUB-C130108			02/26/10 14:05			
Thallium	ND	mg/L	3E-05						
Thorium 232	0.0002	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Vanadium	ND	mg/L	9E-05						
Zinc	0.0009	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C130108			02/26/10 14:12			
Aluminum	0.0519	mg/L	0.0022	104	85	115			
Antimony	0.0546	mg/L	0.0010	109	85	115			
Arsenic	0.0540	mg/L	0.0010	108	85	115			
Barium	0.0550	mg/L	0.0010	110	85	115			
Beryllium	0.0524	mg/L	0.0010	105	85	115			
Cadmium	0.0537	mg/L	0.0010	107	85	115			
Chromium	0.0526	mg/L	0.0010	105	85	115			
Copper	0.0511	mg/L	0.0010	102	85	115			
Lead	0.0534	mg/L	0.0010	107	85	115			
Manganese	0.0522	mg/L	0.0010	104	85	115			
Mercury	0.00546	mg/L	0.0010	109	85	115			
Molybdenum	0.0553	mg/L	0.0010	111	85	115			
Nickel	0.0522	mg/L	0.0010	104	85	115			
Selenium	0.0529	mg/L	0.0014	106	85	115			
Silver	0.0203	mg/L	0.0010	100	85	115			
Strontium	0.0530	mg/L	0.0010	106	85	115			
Thallium	0.0532	mg/L	0.0010	106	85	115			
Thorium 232	0.0565	mg/L	0.0010	113	85	115			
Uranium	0.0547	mg/L	0.00030	109	85	115			
Vanadium	0.0526	mg/L	0.0010	105	85	115			
Zinc	0.0543	mg/L	0.0010	107	85	115			
Sample ID: R10020266-001C	Post Digestion Spike		Run: SUB-C130108			02/26/10 21:40			
Aluminum	0.0532	mg/L	0.10	102	70	130			
Arsenic	0.0518	mg/L	0.0010	102	70	130			
Barium	0.0808	mg/L	0.10	107	70	130			
Cadmium	0.0514	mg/L	0.010	103	70	130			
Chromium	0.0509	mg/L	0.050	102	70	130			
Copper	0.0484	mg/L	0.010	94	70	130			
Lead	0.0524	mg/L	0.050	105	70	130			
Manganese	0.0575	mg/L	0.010	100	70	130			
Mercury	0.00536	mg/L	0.0010	107	70	130			
Molybdenum	0.0568	mg/L	0.10	109	70	130			
Nickel	0.0478	mg/L	0.050	96	70	130			
Silver	0.0186	mg/L	0.010	93	70	130			
Thorium 232	0.0569	mg/L	0.0010	114	70	130			
Uranium	0.0551	mg/L	0.00030	110	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R130108		
Sample ID: R10020266-001C	Post Digestion Spike			Run: SUB-C130108			02/26/10 21:40		
Vanadium	0.0518	mg/L	0.10	103	70	130			
Zinc	0.0511	mg/L	0.010	96	70	130			
Sample ID: R10020266-001C	Post Digestion Spike Duplicate			Run: SUB-C130108			02/26/10 21:47		
Aluminum	0.0530	mg/L	0.0010	101	70	130	0.5	20	
Arsenic	0.0519	mg/L	0.0010	103	70	130	0.3	20	
Barium	0.0802	mg/L	0.0010	105	70	130	0.7	20	
Cadmium	0.0514	mg/L	0.010	103	70	130	0	20	
Chromium	0.0508	mg/L	0.050	101	70	130	0.2	20	
Copper	0.0489	mg/L	0.010	95	70	130	1	20	
Lead	0.0524	mg/L	0.050	105	70	130	0	20	
Manganese	0.0574	mg/L	0.010	100	70	130	0.1	20	
Mercury	0.00538	mg/L	0.0010	107	70	130	0.3	20	
Molybdenum	0.0570	mg/L	0.0010	109	70	130	0.4	20	
Nickel	0.0476	mg/L	0.0010	95	70	130	0.4	20	
Silver	0.0189	mg/L	0.010	95	70	130	1.6	20	
Thorium 232	0.0574	mg/L	0.0010	115	70	130	0.8	20	
Uranium	0.0558	mg/L	0.00030	112	70	130	1.3	20	
Vanadium	0.0519	mg/L	0.0010	104	70	130	0.2	20	
Zinc	0.0511	mg/L	0.010	96	70	130	0	20	
Sample ID: R10020266-001D	Post Digestion Spike			Run: SUB-C130108			02/26/10 22:28		
Antimony	0.0571	mg/L	0.050	114	70	130			
Arsenic	0.0518	mg/L	0.0010	104	70	130			
Barium	0.0810	mg/L	0.0010	106	70	130			
Beryllium	0.0494	mg/L	0.010	99	70	130			
Cadmium	0.0513	mg/L	0.010	103	70	130			
Chromium	0.0505	mg/L	0.050	101	70	130			
Copper	0.0478	mg/L	0.010	94	70	130			
Lead	0.0524	mg/L	0.050	104	70	130			
Manganese	0.0550	mg/L	0.010	99	70	130			
Molybdenum	0.0548	mg/L	0.0010	105	70	130			
Nickel	0.0470	mg/L	0.0010	93	70	130			
Selenium	0.0509	mg/L	0.0010	102	70	130			
Silver	0.0189	mg/L	0.010	95	70	130			
Strontium	2.28	mg/L	0.10		70	130			A
Thallium	0.0515	mg/L	0.0010	103	70	130			
Uranium	0.0551	mg/L	0.00030	110	70	130			
Zinc	0.0498	mg/L	0.010	95	70	130			
Sample ID: R10020266-001D	Post Digestion Spike Duplicate			Run: SUB-C130108			02/26/10 22:34		
Antimony	0.0572	mg/L	0.050	114	70	130	0.2	20	
Arsenic	0.0525	mg/L	0.0010	105	70	130	1.3	20	
Barium	0.0808	mg/L	0.0010	106	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.
MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R130108
Sample ID: R10020266-001D	Post Digestion Spike Duplicate					Run: SUB-C130108			02/26/10 22:34
Beryllium	0.0490	mg/L	0.010	98	70	130	0.9	20	
Cadmium	0.0509	mg/L	0.010	102	70	130	0.8	20	
Chromium	0.0504	mg/L	0.050	101	70	130	0	20	
Copper	0.0482	mg/L	0.010	95	70	130	0.9	20	
Lead	0.0518	mg/L	0.050	103	70	130	1.1	20	
Manganese	0.0548	mg/L	0.010	99	70	130	0.3	20	
Molybdenum	0.0546	mg/L	0.0010	105	70	130	0.3	20	
Nickel	0.0472	mg/L	0.0010	93	70	130	0.2	20	
Selenium	0.0512	mg/L	0.0010	102	70	130	0.5	20	
Silver	0.0187	mg/L	0.010	94	70	130	0.9	20	
Strontium	2.28	mg/L	0.10		70	130	0.1	20	A
Thallium	0.0512	mg/L	0.0010	102	70	130	0.7	20	
Uranium	0.0548	mg/L	0.00030	110	70	130	0.6	20	
Zinc	0.0505	mg/L	0.010	97	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Analytical Run: SUB-C130212		
Sample ID: ICV	Initial Calibration Verification Standard								03/02/10 14:47
Boron	0.0542	mg/L	0.0010	108	90	110			
Iron	1.04	mg/L	0.0010	104	90	110			
Sample ID: ICSA	Interference Check Sample A								03/02/10 14:54
Boron	0.000960	mg/L	0.0010		0	0			
Iron	1.01	mg/L	0.0010	101	80	120			
Sample ID: ICSAB	Interference Check Sample AB								03/02/10 15:00
Boron	0.000509	mg/L	0.0010		0	0			
Iron	1.01	mg/L	0.0010	101	70	130			
Method: E200.8							Batch: C_R130212		
Sample ID: LRB	Method Blank				Run: SUB-C130212		03/02/10 15:35		
Boron	ND	mg/L	0.0004						
Iron	ND	mg/L	0.0006						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C130212		03/02/10 15:48		
Boron	0.0519	mg/L	0.0010	104	85	115			
Iron	1.30	mg/L	0.0010	104	85	115			
Sample ID: C10020843-003CMS4	Post Digestion Spike				Run: SUB-C130212		03/03/10 10:45		
Boron	0.113	mg/L	0.10	100	70	130			
Iron	1.27	mg/L	0.030	99	70	130			
Sample ID: C10020843-003CMSD4	Post Digestion Spike Duplicate				Run: SUB-C130212		03/03/10 10:52		
Boron	0.112	mg/L	0.10	97	70	130	1.5	20	
Iron	1.27	mg/L	0.030	99	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Analytical Run: SUB-C130368		
Sample ID: ICV	Initial Calibration Verification Standard								03/05/10 12:06
Uranium	0.0508	mg/L	0.00030	102	90	110			
Method: E200.8							Batch: C_25430		
Sample ID: MB-25430	Method Blank								03/06/10 00:19
Uranium	0.001	mg/L	6E-05						
Sample ID: LCS2-25430	Laboratory Control Sample								03/06/10 00:24
Uranium	0.123	mg/L	0.00030	121	85	115			S
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since this there is no remaining filter to re-process, and the remainder of the run QA is within acceptance range, this batch is approved.									
Sample ID: R10020266-002I	Post Digestion Spike								03/06/10 00:40
Uranium	0.0540	mg/L	0.00030	106	70	130			
Sample ID: R10020266-002I	Post Digestion Spike Duplicate								03/06/10 00:45
Uranium	0.0531	mg/L	0.00030	104	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E245.1								Analytical Run: SUB-B143772		
Sample ID: QCS	Initial Calibration Verification Standard								02/25/10 14:37	
Mercury	0.0018	mg/L	0.0010	92	90	110				
Method: E245.1								Batch: B_44724		
Sample ID: MB-44724	Method Blank								02/25/10 14:47	
Mercury	ND	mg/L	5E-05							
Sample ID: LCS-44724	Laboratory Control Sample								02/25/10 14:50	
Mercury	0.0018	mg/L	0.0010	91	85	115				
Sample ID: R10020236-005A	Sample Matrix Spike								02/25/10 14:54	
Mercury	0.0016	mg/L	0.0010	80	70	130				
Sample ID: R10020236-005A	Sample Matrix Spike Duplicate								02/25/10 14:57	
Mercury	0.0017	mg/L	0.0010	82	70	130	2.4	30		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R44872		
Sample ID: LFB022310-10	Laboratory Fortified Blank			Run: DIONEX_100224A			02/23/10 18:28		
Chloride	4.68	mg/L	0.50	94	90	110			
Fluoride	1.98	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N	2.28	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N	2.40	mg/L	0.10	96	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R10020252-001AMS	Sample Matrix Spike			Run: DIONEX_100224A			02/23/10 19:17		
Chloride	24.0	mg/L	0.50		80	120			A
Fluoride	2.10	mg/L	0.10	94	80	120			
Nitrogen, Nitrate as N	2.52	mg/L	0.10	90	80	120			
Nitrogen, Nitrite as N	2.41	mg/L	0.10	96	80	120			
Sulfate	29.7	mg/L	1.0	81	80	120			
Sample ID: R10020252-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_100224A			02/23/10 19:33		
Chloride	24.1	mg/L	0.50		80	120	0.5	10	A
Fluoride	2.11	mg/L	0.10	94	80	120	0.4	10	
Nitrogen, Nitrate as N	2.52	mg/L	0.10	90	80	120	0.1	10	
Nitrogen, Nitrite as N	2.42	mg/L	0.10	97	80	120	0.5	10	
Sulfate	29.8	mg/L	1.0	81	80	120	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0854		
Sample ID: MB-GrAB-0854	Method Blank				Run: SUB-C130382				03/04/10 03:14
Gross Alpha	-0.6	pCi/L							U
Gross Alpha precision (±)	0.6	pCi/L							
Gross Alpha MDC	0.7	pCi/L							
Gross Beta	0.2	pCi/L							U
Gross Beta precision (±)	1	pCi/L							
Gross Beta MDC	2	pCi/L							
Sample ID: Th230-GrAB-0854	Laboratory Control Sample				Run: SUB-C130382				03/04/10 03:14
Gross Alpha	100	pCi/L		99	70	130			
Sample ID: Cs137-GrAB-0854	Laboratory Control Sample				Run: SUB-C130382				03/04/10 03:14
Gross Beta	85	pCi/L		94	70	130			
Sample ID: C10020552-001DMS	Sample Matrix Spike				Run: SUB-C130382				03/04/10 03:14
Gross Alpha	210	pCi/L		101	70	130			
Sample ID: C10020552-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C130382				03/04/10 03:14
Gross Alpha	170	pCi/L		67	70	130	18	20	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C10020552-001DMS	Sample Matrix Spike				Run: SUB-C130382				03/04/10 03:14
Gross Beta	130	pCi/L		104	70	130			
Sample ID: C10020552-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C130382				03/04/10 03:14
Gross Beta	120	pCi/L		101	70	130	2	15	
Sample ID: C10020817-001ADUP	Sample Duplicate				Run: SUB-C130382				03/05/10 00:36
Gross Alpha	-0.266	pCi/L					98	521.1	U
Gross Alpha precision (±)	1.50	pCi/L							
Gross Alpha MDC	2.58	pCi/L							
Gross Beta	16.2	pCi/L					28	40.7	
Gross Beta precision (±)	2.23	pCi/L							
Gross Beta MDC	3.28	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R130184		
Sample ID: LCS-R130184	Laboratory Control Sample			Run: SUB-C130184			02/26/10 17:33		
Americium 241	660	pCi/L	20	82	70	130			
Cesium 137	990	pCi/L	20	97	70	130			
Potassium 40	6700	pCi/L	20	101	70	130			
Sample ID: MB-R130184	Method Blank			Run: SUB-C130184			02/26/10 17:33		
Actinium 228	ND	pCi/L							
Actinium 228 precision (±)	ND	pCi/L							
Americium 241	ND	pCi/L							
Americium 241 precision (±)	ND	pCi/L							
Barium 133	ND	pCi/L							
Barium 133 precision (±)	ND	pCi/L							
Bismuth 212	ND	pCi/L							
Bismuth 212 precision (±)	ND	pCi/L							
Bismuth 214	ND	pCi/L							U
Cesium 134	ND	pCi/L							
Cesium 134 precision (±)	ND	pCi/L							
Cesium 137	ND	pCi/L							
Cesium 137 precision (±)	ND	pCi/L							
Cobalt 60	ND	pCi/L							
Cobalt 60 precision (±)	ND	pCi/L							
Iodine 125	ND	pCi/L							
Iodine 125 precision (±)	ND	pCi/L							
Iodine 131	ND	pCi/L							U
Lead 212	ND	pCi/L							
Lead 212 precision (±)	ND	pCi/L							
Lead 214	ND	pCi/L							
Lead 214 precision (±)	ND	pCi/L							
Manganese 54	ND	pCi/L							
Manganese 54 precision (±)	ND	pCi/L							
Potassium 40	ND	pCi/L							U
Radium 223	ND	pCi/L							
Radium 223 precision (±)	ND	pCi/L							
Radium 224	ND	pCi/L							
Radium 224 precision (±)	ND	pCi/L							
Thallium 208	ND	pCi/L							
Thallium 208 precision (±)	ND	pCi/L							
Thorium 228	ND	pCi/L							
Thorium 228 precision (±)	ND	pCi/L							
Thorium 234	ND	pCi/L							
Thorium 234 precision (±)	ND	pCi/L							
Zinc 65	ND	pCi/L							
Zinc 65 precision (±)	ND	pCi/L							
Radium 228	ND	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R130184		
Sample ID: MB-R130184	Method Blank				Run: SUB-C130184		02/26/10 17:33		
Radium 228 precision (±)	ND	pCi/L							
Gross Gamma	ND	pCi/L							U
Sample ID: C10020817-004ADUP	Sample Duplicate				Run: SUB-C130184		02/26/10 17:33		
Bismuth 212	ND	pCi/L	20					30	
Bismuth 212 precision (±)	ND	pCi/L							
Bismuth 214	ND	pCi/L	20					30	
Cesium 134	ND	pCi/L	20					30	
Cesium 134 precision (±)	ND	pCi/L							
Cesium 137	ND	pCi/L	20					30	
Cesium 137 precision (±)	ND	pCi/L							
Cobalt 60	ND	pCi/L	20					30	
Cobalt 60 precision (±)	ND	pCi/L							
Iodine 125	ND	pCi/L	20					30	
Iodine 125 precision (±)	ND	pCi/L							
Iodine 131	ND	pCi/L	20					30	U
Lead 212	ND	pCi/L	20					30	
Lead 212 precision (±)	ND	pCi/L							
Lead 214	ND	pCi/L	20					30	
Lead 214 precision (±)	ND	pCi/L							
Manganese 54	ND	pCi/L	20					30	
Manganese 54 precision (±)	ND	pCi/L							
Potassium 40	ND	pCi/L	20					30	U
Radium 223	ND	pCi/L	20					30	
Radium 223 precision (±)	ND	pCi/L							
Radium 224	ND	pCi/L	20					30	
Radium 224 precision (±)	ND	pCi/L							
Thallium 208	ND	pCi/L	20					30	
Thallium 208 precision (±)	ND	pCi/L							
Thorium 228	ND	pCi/L	20					30	
Thorium 228 precision (±)	ND	pCi/L							
Thorium 234	ND	pCi/L	20					30	
Thorium 234 precision (±)	ND	pCi/L							
Zinc 65	ND	pCi/L	20					30	
Zinc 65 precision (±)	ND	pCi/L							
Radium 228	ND	pCi/L	20					30	
Radium 228 precision (±)	ND	pCi/L							
Gross Gamma	ND	pCi/L	20					30	U
Gross Gamma precision (±)	ND	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Revised Date: 09/10/10

Client: Powertech USA Inc

Report Date: 03/29/10

Project: Dewey Groundwater Sampling

Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_R130472		
Sample ID: LCS-25430	Laboratory Control Sample								
Radium 226	15	pCi/L		98	70	130			03/09/10 17:27
Sample ID: MB-25430	Method Blank								
Radium 226	0.2	pCi/L							U
Radium 226 precision (±)	0.2	pCi/L							
Radium 226 MDC	0.3	pCi/L							
Sample ID: C10020854-001AMS	Sample Matrix Spike								
Radium 226	310	pCi/g		-257	70	130			S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. Both of the LSCs analyzed with the batch meet acceptance criteria; this batch is approved.									
Sample ID: C10020854-001AMSD	Sample Matrix Spike Duplicate								
Radium 226	400	pCi/g		443	70	130	26	12.4	SR
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. Both of the LSCs analyzed with the batch meet acceptance criteria; this batch is approved.									
Method: E903.0							Batch: C_RA226-4389		
Sample ID: C10030004-002CMS	Sample Matrix Spike								
Radium 226	17	pCi/L		105	70	130			03/09/10 16:32
Sample ID: C10030004-002CMSD	Sample Matrix Spike Duplicate								
Radium 226	15	pCi/L		94	70	130	11	24	03/09/10 16:32
Sample ID: MB-RA226-4389	Method Blank								
Radium 226	-0.2	pCi/L							U
Radium 226 precision (±)	0.08	pCi/L							
Radium 226 MDC	0.2	pCi/L							
Sample ID: LCS-RA226-4389	Laboratory Control Sample								
Radium 226	8.6	pCi/L		111	70	130			03/09/10 18:03

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-1109		
Sample ID: LCS-RA-TH-ISO-1109	Laboratory Control Sample				Run: SUB-C130435				03/08/10 11:54
Thorium 230	5.9	pCi/L		114	70	130			
Sample ID: R10020266-001H	Sample Matrix Spike				Run: SUB-C130435				03/08/10 16:08
Thorium 230	11	pCi/L		89	70	130			
Sample ID: R10020266-001H	Sample Matrix Spike Duplicate				Run: SUB-C130435				03/08/10 16:08
Thorium 230	13	pCi/L		105	70	130	16	37.5	
Sample ID: MB-RA-TH-ISO-1109	Method Blank				Run: SUB-C130435				03/08/10 16:08
Thorium 230	0.07	pCi/L							U
Thorium 230 MDC	0.2	pCi/L							
Thorium 230 precision (±)	0.1	pCi/L							
Method: E907.0							Batch: C_25430		
Sample ID: C10020823-007FMS	Sample Matrix Spike				Run: SUB-C130526				03/09/10 13:24
Thorium 230	6.7	pCi/L		107	70	130			
Sample ID: C10020823-007FMSD	Sample Matrix Spike Duplicate				Run: SUB-C130526				03/09/10 13:24
Thorium 230	6.2	pCi/L		95	70	130	7.7	35.2	
Sample ID: LCS-25430	Laboratory Control Sample				Run: SUB-C130526				03/09/10 13:24
Thorium 230	5.4	pCi/L		113	70	130			
Sample ID: MB-25430	Method Blank				Run: SUB-C130526				03/09/10 13:24
Thorium 230	0.006	pCi/L							U
Thorium 230 MDC	0.08	pCi/L							
Thorium 230 precision (±)	0.09	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Revised Date: 09/10/10

Client: Powertech USA Inc

Report Date: 03/29/10

Project: Dewey Groundwater Sampling

Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_PB-210-0669		
Sample ID: C09081027-005CMS	Sample Matrix Spike					Run: SUB-C130620			03/12/10 22:26
Lead 210	210	pCi/L		96	70	130			
Sample ID: C09081027-005CMSD	Sample Matrix Spike Duplicate					Run: SUB-C130620			03/13/10 00:28
Lead 210	180	pCi/L		81	70	130	17	18.4	
Sample ID: MB-PB-210-0669	Method Blank					Run: SUB-C130620			03/13/10 02:29
Lead 210	1	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	5	pCi/L							
Sample ID: LCS-PB-210-0669	Laboratory Control Sample					Run: SUB-C130620			03/13/10 06:33
Lead 210	120	pCi/L		105	70	130			
- One of the two LCSs run with the batch was substituted for the Standard due to poor recovery. This resulted in the STD, LCS, MS, and MSD all being from the same stock solution. The efficiency is acceptable therefore the batch is approved.									
Method: E909.0M							Batch: C_R130998		
Sample ID: C09090819-001FMS	Sample Matrix Spike					Run: SUB-C130998			03/23/10 07:42
Lead 210	150	pCi/Filter		103	70	130			
Sample ID: C09090819-001FMSD	Sample Matrix Spike Duplicate					Run: SUB-C130998			03/23/10 07:42
Lead 210	164	pCi/Filter		113	70	130	8.5	17.8	
Sample ID: MB-25430	Method Blank					Run: SUB-C130998			03/23/10 07:42
Lead 210	ND	pCi/L							U
Lead 210 precision (±)	20	pCi/L							
Lead 210 MDC	30	pCi/L							
Sample ID: LCS-25430	Laboratory Control Sample					Run: SUB-C130998			03/23/10 07:42
Lead 210	550	pCi/L		105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 03/29/10
Work Order: R10020266

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0							Batch: C_PO210-0283		
Sample ID: LCS-25262	Laboratory Control Sample				Run: SUB-C130624		03/08/10 09:25		
Polonium 210	66	pCi/L	85		70	130			
Sample ID: MB-25262	Method Blank				Run: SUB-C130624		03/08/10 09:25		
Polonium 210	0.4	pCi/L							U
Polonium 210 precision (±)	1	pCi/L							
Polonium 210 MDC	2	pCi/L							
Sample ID: C10020823-007EMS	Sample Matrix Spike				Run: SUB-C130624		03/15/10 08:47		
Polonium 210	30	pCi/L	92		70	130			
Sample ID: C10020823-007EMSD	Sample Matrix Spike Duplicate				Run: SUB-C130624		03/15/10 08:47		
Polonium 210	25	pCi/L	75		70	130	20	59.3	
Method: E912.0							Batch: C_25430		
Sample ID: C10020823-004FMS	Sample Matrix Spike				Run: SUB-C130723		03/15/10 12:17		
Polonium 210	24	pCi/L	113		70	130			
Sample ID: C10020823-004FMSD	Sample Matrix Spike Duplicate				Run: SUB-C130723		03/15/10 12:17		
Polonium 210	17	pCi/L	79		70	130	35	54.1	
Sample ID: LCS-25430	Laboratory Control Sample				Run: SUB-C130723		03/15/10 12:17		
Polonium 210	82	pCi/L	104		70	130			
Sample ID: MB-25430	Method Blank				Run: SUB-C130723		03/15/10 12:17		
Polonium 210	0.1	pCi/L							U
Polonium 210 precision (±)	1	pCi/L							
Polonium 210 MDC	3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: South Environmental Project Name: Powertech Sample Origin: State:
 Report Mail Address: Powertech Contact Name: Allen Scott Phone/Fax: 673-4859 EPA/State Compliance: Yes No
 Invoice Address: Powertech Invoice Contact & Phone: Allen Scott 673-4859 Purchase Order: Sampler: (Please Print)
 Quote/Bottle Order:

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

- DW
- GSA
- POT/WWTP
- State: _____
- Other: _____
- A2LA
- EDD/EDT (Electronic Data)
- Format: _____
- LEVEL IV
- NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED		Normal Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by:
				SEE ATTACHED	Comments:			
1 08-09-21-01	2-22-10		water	SEE ATTACHED	SEE ATTACHED		RUSH	Reagent Temp: 5.8 °C On Ice: Yes Custody Seal: Y Bottles/Coolers: B C Intact: Y N Signature Match: Y N
2 08-09-21-02	2-22-10		water					
3								
4								
5								
6								
7								
8								
9								
10								

Custody Record MUST be Signed

Relinquished by (print): Allen Scott Date/Time: 2-23-10 9:53 AM Signature: Allen Scott
 Relinquished by (print): _____ Date/Time: _____ Signature: _____
 Received by (print): _____ Date/Time: _____ Signature: _____
 Received by (print): Steve Fairland Date/Time: 2-23-10 9:58 Signature: Steve Fairland
 Sample Disposal: _____ Return to Client: _____ Lab Disposal: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

LABORATORY USE ONLY

R10020266-101
002



ANALYTICAL SUMMARY REPORT

May 03, 2010

Mark Hollenbeck
 Powertech USA Inc
 PO Box 812
 Edgemont, SD 57735

Workorder No.: R10030205

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 3 samples for Powertech USA Inc on 3/17/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10030205-001	DB-09-21-01	03/15/10 0:00	03/17/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10030205-002	DB-09-21-01 Dup	03/15/10 0:00	03/17/10	Aqueous	Same As Above
R10030205-003	DB-09-21-02	03/15/10 0:00	03/17/10	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of your sample analysis.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by applicable quality assurance samples throughout the test. Where applicable, the results of these quality assurance samples will be included with your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please feel free to call (888)672-1225, (605)342-1225 or llarson@energylab.com.

Sincerely,



ANALYTICAL SUMMARY REPORT

Linda Larson
Branch Manager
Energy Laboratories, Inc.
Rapid City, SD

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2010.05.04 08:45:38 -06:00



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10030205

Report Date: 05/03/10

CASE NARRATIVE

Tests Associated with Analyst identified as ELI-CA were subcontracted to Energy Laboratories Casper Branch, EPA Number WY00002.

Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

Comments imported for SUBBED Workorder: C10030626

PB210 ANALYSIS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

End of comments imported for SUBBED Workorder: C10030626

Radon analysis was subbed to the South Dakota State Health Lab.

The samples were received two days after samples collected. Analyst missed alkalinity hold time by one day to error in reading sample date in laboratory information system.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-001
Client Sample ID: DB-09-21-01

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO ₃	160	mg/L	H	5		1	A2320 B	03/30/10 09:44/mb
Carbonate as CO ₃	ND	mg/L	H	5		1	A2320 B	03/30/10 09:44/mb
Bicarbonate as HCO ₃	195	mg/L	H	5		1	A2320 B	03/30/10 09:44/mb
Calcium	88	mg/L	D	1		5	E200.7	03/19/10 13:23/eli-c
Chloride	8	mg/L		1		1	E300.0	03/18/10 18:50/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	03/18/10 18:50/jmh
Magnesium	31.8	mg/L		0.5		5	E200.7	03/19/10 13:23/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH ₃ G	03/23/10 11:27/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/18/10 18:50/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	03/18/10 18:50/jmh
Potassium	11.5	mg/L		0.5		5	E200.7	03/19/10 13:23/eli-c
Sodium	154	mg/L	D	1		5	E200.7	03/19/10 13:23/eli-c
Sulfate	509	mg/L		1		20	E300.0	03/18/10 18:01/jmh
Silica	8.3	mg/L		0.2		5	E200.7	03/19/10 13:23/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1360	umhos/cm		5.0		1	A2510 B	03/19/10 10:58/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	03/22/10 15:30/jmh
pH	7.93	s.u.		0.01		1	A4500-H B	03/19/10 10:03/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	04/08/10 14:52/ADM
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C	03/19/10 13:55/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	03/19/10 13:23/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/20/10 01:47/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/19/10 13:23/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/19/10 13:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/20/10 01:47/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	03/19/10 13:23/eli-c
Copper	ND	mg/L		0.01		5	E200.7	03/19/10 13:23/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/19/10 13:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/20/10 01:47/eli-c
Manganese	0.04	mg/L		0.01		5	E200.7	03/19/10 13:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/20/10 01:47/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.7	03/19/10 13:23/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	03/19/10 13:23/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/22/10 14:34/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/20/10 01:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/20/10 01:47/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-001
Client Sample ID: DB-09-21-01

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/20/10 01:47/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	03/20/10 01:47/eli-c
Zinc	ND	mg/L		0.01		5	E200.7	03/19/10 13:23/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	03/23/10 23:35/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/22/10 12:59/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/22/10 14:55/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	8.6	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Alpha precision (±)	3.8	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Alpha MDC	5.4	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Beta	13.7	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Beta precision (±)	3.9	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Gross Beta MDC	6.2	pCi/L				1	E900.0	03/29/10 23:12/eli-ca
Lead 210	2.0	pCi/L	U			1	E909.0M	04/03/10 04:17/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	04/03/10 04:17/eli-c
Lead 210 MDC	2.8	pCi/L				1	E909.0M	04/03/10 04:17/eli-c
Polonium 210	-0.020	pCi/L	U			1	E912.0	03/26/10 08:55/eli-c
Polonium 210 MDC	0.56	pCi/L				1	E912.0	03/26/10 08:55/eli-c
Polonium 210 precision (±)	0.21	pCi/L				1	E912.0	03/26/10 08:55/eli-c
Radium 226	2.1	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	03/29/10 17:02/eli-ca
Thorium 230	0.002	pCi/L	U			1	E907.0	03/23/10 08:45/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	03/23/10 08:45/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	03/23/10 08:45/eli-c
Gross Gamma	810	pCi/L		20		1	E901.1	03/22/10 09:00/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	03/22/10 09:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.06	pCi/L	U			1	E909.0M	04/02/10 03:57/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	04/02/10 03:57/eli-c
Lead 210 MDC	2.9	pCi/L				1	E909.0M	04/02/10 03:57/eli-c
Polonium 210	-0.013	pCi/L	U			1	E912.0	04/06/10 08:44/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-001
Client Sample ID: DB-09-21-01

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Polonium 210 precision (±)	0.099	pCi/L					1	E912.0	04/06/10 08:44/eli-c
Polonium 210 MDC	0.26	pCi/L					1	E912.0	04/06/10 08:44/eli-c
Radium 226	0.2	pCi/L					1	E903.0	03/29/10 23:54/eli-cal
Radium 226 precision (±)	0.09	pCi/L					1	E903.0	03/29/10 23:54/eli-cal
Radium 226 MDC	0.08	pCi/L					1	E903.0	03/29/10 23:54/eli-cal
Thorium 230	-0.08	pCi/L	U				1	E907.0	03/23/10 17:02/eli-c
Thorium 230 precision (±)	0.04	pCi/L					1	E907.0	03/23/10 17:02/eli-c
- See Case Narrative regarding Pb210 analysis.									
RADIONUCLIDES - TOTAL									
Radon 222	260	pCi/L		100			1	D5072-92	03/18/10 00:00/lki
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	03/22/10 12:35/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	03/22/10 12:35/eli-c
Barium	ND	mg/L		0.1			1	E200.8	03/22/10 12:35/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	03/22/10 12:35/eli-c
Boron	0.1	mg/L		0.1			5	E200.7	03/23/10 14:14/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	03/22/10 12:35/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	03/22/10 12:35/eli-c
Copper	ND	mg/L		0.01			1	E200.8	03/22/10 12:35/eli-c
Iron	0.34	mg/L	D	0.04			5	E200.7	03/23/10 14:14/eli-c
Lead	ND	mg/L		0.001			1	E200.8	03/22/10 12:35/eli-c
Manganese	0.05	mg/L		0.01			1	E200.8	03/22/10 12:35/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	03/22/10 12:09/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	03/22/10 12:35/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	03/22/10 12:35/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	03/22/10 12:35/eli-c
Silver	ND	mg/L		0.005			1	E200.8	03/22/10 12:35/eli-c
Strontium	2.8	mg/L		0.1			1	E200.8	03/22/10 12:35/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	03/22/10 12:35/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	03/22/10 12:35/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	03/22/10 12:35/eli-c
DATA QUALITY									
A/C Balance (± 5)	0.0300	%					1	A1030 E	04/08/10 00:00/jmh
Anions	14.0	meq/L					1	A1030 E	04/08/10 00:00/jmh
Cations	14.0	meq/L					1	A1030 E	04/08/10 00:00/jmh
Solids, Total Dissolved Calculated	922	mg/L					1	A1030 E	04/08/10 00:00/jmh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-001
Client Sample ID: DB-09-21-01

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	1.08						1	A1030 E	04/08/10 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-002
Client Sample ID: DB-09-21-01 Dup

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	158	mg/L	H	5		1	A2320 B	03/30/10 09:48/mb
Carbonate as CO3	ND	mg/L	H	5		1	A2320 B	03/30/10 09:48/mb
Bicarbonate as HCO3	193	mg/L	H	5		1	A2320 B	03/30/10 09:48/mb
Calcium	87	mg/L	D	1		5	E200.7	03/19/10 13:27/eli-c
Chloride	8	mg/L		1		1	E300.0	03/18/10 19:23/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	03/18/10 19:23/jmh
Magnesium	31.1	mg/L		0.5		5	E200.7	03/19/10 13:27/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	03/23/10 11:28/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/18/10 19:23/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	03/18/10 19:23/jmh
Potassium	11.2	mg/L		0.5		5	E200.7	03/19/10 13:27/eli-c
Sodium	156	mg/L	D	1		5	E200.7	03/19/10 13:27/eli-c
Sulfate	531	mg/L		1		20	E300.0	03/18/10 19:06/jmh
Silica	8.1	mg/L		0.2		5	E200.7	03/19/10 13:27/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1360	umhos/cm		5.0		1	A2510 B	03/19/10 11:00/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	03/22/10 15:30/jmh
pH	7.94	s.u.		0.01		1	A4500-H B	03/19/10 10:09/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	04/08/10 14:52/ADM
Solids, Total Dissolved TDS @ 180 C	1000	mg/L		5		1	A2540 C	03/19/10 13:56/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	03/19/10 13:27/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	03/20/10 01:54/eli-c
Barium	ND	mg/L		0.1		5	E200.7	03/19/10 13:27/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/19/10 13:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/20/10 01:54/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	03/19/10 13:27/eli-c
Copper	ND	mg/L		0.01		5	E200.7	03/19/10 13:27/eli-c
Iron	ND	mg/L		0.03		5	E200.7	03/19/10 13:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/20/10 01:54/eli-c
Manganese	0.04	mg/L		0.01		5	E200.7	03/19/10 13:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	03/20/10 01:54/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.7	03/19/10 13:27/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	03/19/10 13:27/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	03/22/10 14:36/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	03/20/10 01:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	03/20/10 01:54/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-002
Client Sample ID: DB-09-21-01 Dup

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	03/20/10 01:54/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	03/20/10 01:54/eli-c
Zinc	ND	mg/L		0.01		5 E200.7	03/19/10 13:27/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	03/23/10 23:39/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	03/22/10 13:01/eli-ca'
Selenium-VI	ND	mg/L		0.001		1 A3114 B	03/22/10 14:55/eli-ca'
RADIONUCLIDES - DISSOLVED							
Gross Alpha	10.0	pCi/L				1 E900.0	03/29/10 23:12/eli-ca'
Gross Alpha precision (±)	5.2	pCi/L				1 E900.0	03/29/10 23:12/eli-ca'
Gross Alpha MDC	7.6	pCi/L				1 E900.0	03/29/10 23:12/eli-ca'
Gross Beta	17.3	pCi/L				1 E900.0	03/29/10 23:12/eli-ca'
Gross Beta precision (±)	4.1	pCi/L				1 E900.0	03/29/10 23:12/eli-ca'
Gross Beta MDC	6.4	pCi/L				1 E900.0	03/29/10 23:12/eli-ca'
Lead 210	1.1	pCi/L	U			1 E909.0M	04/03/10 06:19/eli-c
Lead 210 precision (±)	1.7	pCi/L				1 E909.0M	04/03/10 06:19/eli-c
Lead 210 MDC	2.8	pCi/L				1 E909.0M	04/03/10 06:19/eli-c
Polonium 210	0.066	pCi/L	U			1 E912.0	03/26/10 08:55/eli-c
Polonium 210 MDC	0.59	pCi/L				1 E912.0	03/26/10 08:55/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1 E912.0	03/26/10 08:55/eli-c
Radium 226	1.9	pCi/L				1 E903.0	03/29/10 17:02/eli-ca'
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	03/29/10 17:02/eli-ca'
Radium 226 MDC	0.1	pCi/L				1 E903.0	03/29/10 17:02/eli-ca'
Thorium 230	-0.007	pCi/L	U			1 E907.0	03/23/10 08:45/eli-c
Thorium 230 MDC	0.2	pCi/L				1 E907.0	03/23/10 08:45/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	03/23/10 08:45/eli-c
Gross Gamma	930	pCi/L		20		1 E901.1	03/22/10 09:00/eli-c
Gross Gamma precision (±)	140	pCi/L				1 E901.1	03/22/10 09:00/eli-c
- See Case Narrative regarding Pb210 analysis.							
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.2	pCi/L	U			1 E909.0M	04/02/10 10:02/eli-c
Lead 210 precision (±)	1.8	pCi/L				1 E909.0M	04/02/10 10:02/eli-c
Lead 210 MDC	3.0	pCi/L				1 E909.0M	04/02/10 10:02/eli-c
Polonium 210	0.013	pCi/L	U			1 E912.0	04/06/10 08:44/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-002
Client Sample ID: DB-09-21-01 Dup

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - SUSPENDED								
Polonium 210 precision (±)	0.15	pCi/L				1	E912.0	04/06/10 08:44/eli-c
Polonium 210 MDC	0.33	pCi/L				1	E912.0	04/06/10 08:44/eli-c
Radium 226	0.2	pCi/L				1	E903.0	03/29/10 23:54/eli-cat
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	03/29/10 23:54/eli-cat
Radium 226 MDC	0.08	pCi/L				1	E903.0	03/29/10 23:54/eli-cat
Thorium 230	0.03	pCi/L	U			1	E907.0	03/23/10 17:02/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	03/23/10 17:02/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	232	pCi/L		100		1	D5072-92	03/18/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	03/22/10 12:42/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	03/22/10 12:42/eli-c
Barium	ND	mg/L		0.1		1	E200.8	03/22/10 12:42/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	03/22/10 12:42/eli-c
Boron	ND	mg/L		0.1		5	E200.7	03/23/10 14:18/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	03/22/10 12:42/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	03/22/10 12:42/eli-c
Copper	ND	mg/L		0.01		1	E200.8	03/22/10 12:42/eli-c
Iron	0.34	mg/L	D	0.04		5	E200.7	03/23/10 14:18/eli-c
Lead	ND	mg/L		0.001		1	E200.8	03/22/10 12:42/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	03/22/10 12:42/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	03/22/10 12:12/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	03/22/10 12:42/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	03/22/10 12:42/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	03/22/10 12:42/eli-c
Silver	ND	mg/L		0.005		1	E200.8	03/22/10 12:42/eli-c
Strontium	2.8	mg/L		0.1		1	E200.8	03/22/10 12:42/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	03/22/10 12:42/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	03/22/10 12:42/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	03/22/10 12:42/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.77	%				1	A1030 E	04/08/10 00:00/jmh
Anions	14.4	meq/L				1	A1030 E	04/08/10 00:00/jmh
Cations	14.0	meq/L				1	A1030 E	04/08/10 00:00/jmh
Solids, Total Dissolved Calculated	940	mg/L				1	A1030 E	04/08/10 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-002
Client Sample ID: DB-09-21-01 Dup

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.09						1 A1030 E	04/08/10 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling
 Lab ID: R10030205-003
 Client Sample ID: DB-09-21-02

Report Date: 05/03/10
 Collection Date: 03/15/10
 Date Received: 03/17/10
 Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	200	mg/L	H	5		1	A2320 B	03/30/10 09:58/mb
Carbonate as CO3	ND	mg/L	H	5		1	A2320 B	03/30/10 09:58/mb
Bicarbonate as HCO3	244	mg/L	H	5		1	A2320 B	03/30/10 09:58/mb
Calcium	166	mg/L	D	1		5	E200.7	03/19/10 13:31/eli-c
Chloride	10	mg/L		1		1	E300.0	03/18/10 19:56/jmh
Fluoride	0.5	mg/L			0.1	1	E300.0	03/18/10 19:56/jmh
Magnesium	46.6	mg/L			0.5	5	E200.7	03/19/10 13:31/eli-c
Nitrogen, Ammonia as N	ND	mg/L			0.1	1	A4500-NH3 G	03/23/10 11:29/jmh
Nitrogen, Nitrate as N	ND	mg/L			0.1	1	E300.0	03/18/10 19:56/jmh
Nitrogen, Nitrite as N	ND	mg/L			0.1	1	E300.0	03/18/10 19:56/jmh
Potassium	11.3	mg/L			0.5	5	E200.7	03/19/10 13:31/eli-c
Sodium	124	mg/L	D	1		5	E200.7	03/19/10 13:31/eli-c
Sulfate	666	mg/L			1	20	E300.0	03/18/10 19:39/jmh
Silica	8.3	mg/L			0.2	5	E200.7	03/19/10 13:31/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1570	umhos/cm			5.0	1	A2510 B	03/19/10 11:03/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	03/22/10 15:30/jmh
pH	7.48	s.u.			0.01	1	A4500-H B	03/19/10 10:11/tb
Sodium Adsorption Ratio (SAR)	2.2	unitless			0.10	1	Calculation	04/08/10 14:52/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L			5	1	A2540 C	03/19/10 13:57/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L			0.1	5	E200.7	03/19/10 13:31/eli-c
Arsenic	0.001	mg/L			0.001	1	E200.8	03/20/10 02:28/eli-c
Barium	ND	mg/L			0.1	5	E200.7	03/19/10 13:31/eli-c
Boron	ND	mg/L			0.1	5	E200.7	03/19/10 13:31/eli-c
Cadmium	ND	mg/L			0.005	1	E200.8	03/20/10 02:28/eli-c
Chromium	ND	mg/L			0.05	5	E200.7	03/19/10 13:31/eli-c
Copper	ND	mg/L			0.01	5	E200.7	03/19/10 13:31/eli-c
Iron	ND	mg/L			0.03	5	E200.7	03/19/10 13:31/eli-c
Lead	ND	mg/L			0.001	1	E200.8	03/20/10 02:28/eli-c
Manganese	0.53	mg/L			0.01	5	E200.7	03/19/10 13:31/eli-c
Mercury	ND	mg/L			0.001	1	E200.8	03/20/10 02:28/eli-c
Molybdenum	ND	mg/L			0.1	5	E200.7	03/19/10 13:31/eli-c
Nickel	ND	mg/L			0.05	5	E200.7	03/19/10 13:31/eli-c
Selenium	ND	mg/L			0.001	1	A3114 B	03/22/10 14:38/eli-ca
Silver	ND	mg/L			0.005	1	E200.8	03/23/10 16:29/eli-c
Thorium 232	ND	mg/L			0.005	1	E200.8	03/23/10 16:29/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

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Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix interference.

H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-003
Client Sample ID: DB-09-21-02

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0078	mg/L		0.0003		1 E200.8	03/20/10 02:28/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	03/20/10 02:28/eli-c
Zinc	ND	mg/L		0.01		5 E200.7	03/19/10 13:31/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	03/23/10 23:43/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	03/22/10 13:03/eli-ca
Selenium-VI	ND	mg/L		0.001		1 A3114 B	03/22/10 14:55/eli-ca
RADIONUCLIDES - DISSOLVED							
Gross Alpha	11.2	pCi/L				1 E900.0	04/17/10 10:27/eli-ca
Gross Alpha precision (±)	3.8	pCi/L				1 E900.0	04/17/10 10:27/eli-ca
Gross Alpha MDC	5.1	pCi/L				1 E900.0	04/17/10 10:27/eli-ca
Gross Beta	19.7	pCi/L				1 E900.0	04/17/10 10:27/eli-ca
Gross Beta precision (±)	2.9	pCi/L				1 E900.0	04/17/10 10:27/eli-ca
Gross Beta MDC	4.3	pCi/L				1 E900.0	04/17/10 10:27/eli-ca
Lead 210	0.7	pCi/L	U			1 E909.0M	04/03/10 08:20/eli-c
Lead 210 precision (±)	1.7	pCi/L				1 E909.0M	04/03/10 08:20/eli-c
Lead 210 MDC	2.8	pCi/L				1 E909.0M	04/03/10 08:20/eli-c
Polonium 210	0.0	pCi/L	U			1 E912.0	03/26/10 08:55/eli-c
Polonium 210 MDC	0.42	pCi/L				1 E912.0	03/26/10 08:55/eli-c
Polonium 210 precision (±)	0.17	pCi/L				1 E912.0	03/26/10 08:55/eli-c
Radium 226	2.9	pCi/L				1 E903.0	03/29/10 17:02/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	03/29/10 17:02/eli-ca
Radium 226 MDC	0.1	pCi/L				1 E903.0	03/29/10 17:02/eli-ca
Thorium 230	-0.01	pCi/L	U			1 E907.0	03/23/10 08:45/eli-c
Thorium 230 MDC	0.1	pCi/L				1 E907.0	03/23/10 08:45/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1 E907.0	03/23/10 08:45/eli-c
Gross Gamma	990	pCi/L		20		1 E901.1	03/22/10 09:00/eli-c
Gross Gamma precision (±)	150	pCi/L				1 E901.1	03/22/10 09:00/eli-c
- See Case Narrative regarding Pb210 analysis.							
RADIONUCLIDES - SUSPENDED							
Lead 210	0.7	pCi/L	U			1 E909.0M	04/02/10 12:04/eli-c
Lead 210 precision (±)	1.7	pCi/L				1 E909.0M	04/02/10 12:04/eli-c
Lead 210 MDC	2.9	pCi/L				1 E909.0M	04/02/10 12:04/eli-c
Polonium 210	0.061	pCi/L	U			1 E912.0	04/06/10 08:44/eli-c

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-003
Client Sample ID: DB-09-21-02

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Polonium 210 precision (±)	0.18	pCi/L				1 E912.0	04/06/10 08:44/eli-c
Polonium 210 MDC	0.34	pCi/L				1 E912.0	04/06/10 08:44/eli-c
Radium 226	0.2	pCi/L				1 E903.0	03/29/10 23:54/eli-cat
Radium 226 precision (±)	0.08	pCi/L				1 E903.0	03/29/10 23:54/eli-cat
Radium 226 MDC	0.08	pCi/L				1 E903.0	03/29/10 23:54/eli-cat
Thorium 230	-0.001	pCi/L	U			1 E907.0	03/23/10 17:02/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1 E907.0	03/23/10 17:02/eli-c
- See Case Narrative regarding Pb210 analysis.							
RADIONUCLIDES - TOTAL							
Radon 222	319	pCi/L		100		1 D5072-92	03/18/10 00:00/lkl
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	03/22/10 12:55/eli-c
Arsenic	0.001	mg/L		0.001		1 E200.8	03/22/10 12:55/eli-c
Barium	ND	mg/L		0.1		1 E200.8	03/22/10 12:55/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	03/22/10 12:55/eli-c
Boron	0.1	mg/L		0.1		5 E200.7	03/23/10 14:30/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	03/22/10 12:55/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	03/22/10 12:55/eli-c
Copper	ND	mg/L		0.01		1 E200.8	03/22/10 12:55/eli-c
Iron	0.15	mg/L	D	0.04		5 E200.7	03/23/10 14:30/eli-c
Lead	ND	mg/L		0.001		1 E200.8	03/22/10 12:55/eli-c
Manganese	0.56	mg/L		0.01		1 E200.8	03/22/10 12:55/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	03/22/10 12:14/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	03/22/10 12:55/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	03/22/10 12:55/eli-c
Selenium	0.001	mg/L		0.001		1 E200.8	03/22/10 12:55/eli-c
Silver	ND	mg/L		0.005		1 E200.8	03/22/10 12:55/eli-c
Strontium	2.4	mg/L		0.1		1 E200.8	03/22/10 12:55/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	03/22/10 12:55/eli-c
Uranium	0.0088	mg/L		0.0003		1 E200.8	03/22/10 12:55/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	03/22/10 12:55/eli-c
DATA QUALITY							
A/C Balance (± 5)	-0.990	%				1 A1030 E	04/08/10 00:00/jmh
Anions	18.2	meq/L				1 A1030 E	04/08/10 00:00/jmh
Cations	17.8	meq/L				1 A1030 E	04/08/10 00:00/jmh
Solids, Total Dissolved Calculated	1170	mg/L				1 A1030 E	04/08/10 00:00/jmh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. Page 11 of 12
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. D - RL increased due to sample matrix interference.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10030205-003
Client Sample ID: DB-09-21-02

Report Date: 05/03/10
Collection Date: 03/15/10
Date Received: 03/17/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
DATA QUALITY									
TDS Balance (0.80 - 1.20)	1.06						1	A1030 E	04/08/10 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: 100330A-ALK-SEL-W		
Sample ID: LCS1_100330A	Laboratory Control Sample					Run: PH_COND1-R_100330A			03/30/10 09:31
Alkalinity, Total as CaCO3	980	mg/L	5.0	98	90	110			
Sample ID: MBLK1_100330A	Method Blank					Run: PH_COND1-R_100330A			03/30/10 09:36
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R10030220-005AMS	Sample Matrix Spike					Run: PH_COND1-R_100330A			03/30/10 10:26
Alkalinity, Total as CaCO3	210	mg/L	5.0	91	80	120			
Sample ID: R10030220-005AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_100330A			03/30/10 10:27
Alkalinity, Total as CaCO3	212	mg/L	5.0	92	80	120	0.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Batch: 100319_1_COND-PROBE-W		
Sample ID: LCS1-1_100319 Conductivity @ 25 C	Laboratory Control Sample 150	umhos/cm	5.0	100	90	110			03/19/10 10:39
Sample ID: LCS2-1_100319 Conductivity @ 25 C	Laboratory Control Sample 5000	umhos/cm	5.0	100	90	110			03/19/10 10:43
Sample ID: LCS_COND-1_100319 Conductivity @ 25 C	Laboratory Control Sample 1410	umhos/cm	5.0	100	90	110			03/19/10 10:48
Sample ID: MBLK-1_100319 Conductivity @ 25 C	Method Blank ND	umhos/cm	5						03/19/10 10:50
Sample ID: R10030165-001ADUP Conductivity @ 25 C	Sample Duplicate 3430	umhos/cm	5.0				2.1	10	03/19/10 10:55

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: 100319A-SLDS-TDS-W		
Sample ID: LCS1_100319A	Laboratory Control Sample					Run: BAL-4-R_100322A			03/19/10 11:50
Solids, Total Dissolved TDS @ 180 C	210	mg/L	10	105	90	110			
Sample ID: MBLK1_100319A	Method Blank					Run: BAL-4-R_100322A			03/19/10 11:52
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	5						
Sample ID: R10030220-003AMS	Sample Matrix Spike					Run: BAL-4-R_100322A			03/19/10 14:07
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	10	107	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B							Batch: 100322-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample				Run: PH_COND1-R_100322A		03/22/10 15:30		
Oxidation-Reduction Potential	470	mV		99	95	105			
Sample ID: R10030205-001FDUP	Sample Duplicate				Run: PH_COND1-R_100322A		03/22/10 15:30		
Oxidation-Reduction Potential	200	mV					0.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B							Batch: C_SE3114-100322A		
Sample ID: MBLK	Method Blank								
Selenium-IV	ND	mg/L	0.0003						03/22/10 12:52
Sample ID: As/Se 1.0ppm-Q 03121	Laboratory Control Sample								
Selenium-IV	0.050	mg/L	0.0010	101	90	110			03/22/10 12:54
Sample ID: R10030205-003E	Sample Matrix Spike								
Selenium-IV	0.050	mg/L	0.0010	100	85	115			03/22/10 13:06
Sample ID: R10030205-003E	Sample Matrix Spike Duplicate								
Selenium-IV	0.049	mg/L	0.0010	98	85	115	1.5	10	03/22/10 13:08
Method: A3114 B							Batch: C_SE3114-100322B		
Sample ID: MBLK	Method Blank								
Selenium	0.0007	mg/L	0.0002						03/22/10 14:27
Sample ID: As/Se 1.0ppm-Q 03121	Laboratory Control Sample								
Selenium	0.049	mg/L	0.0010	98	90	110			03/22/10 14:29
Sample ID: R10030205-003E	Sample Matrix Spike								
Selenium	0.048	mg/L	0.0010	95	85	115			03/22/10 14:41
Sample ID: R10030205-003E	Sample Matrix Spike Duplicate								
Selenium	0.050	mg/L	0.0010	99	85	115	4.2	15	03/22/10 14:43

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Batch: 100319_1_PH-W		
Sample ID: LCS_pH-1_100319	Laboratory Control Sample					Run: PH_COND2-R_100319A			03/19/10 09:57
pH	7.44	s.u.	0.010	100	98.55	101.45			
Sample ID: R10030205-001ADUP	Sample Duplicate					Run: PH_COND2-R_100319A			03/19/10 10:06
pH	7.93	s.u.	0.010				0	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G							Batch: A2010-03-23_2_NH3_01		
Sample ID: MBLK-2	Method Blank								
Nitrogen, Ammonia as N	ND	mg/L	0.01						Run: TECHAA2-R_100323A 03/23/10 09:52
Sample ID: LFB-3	Laboratory Fortified Blank								
Nitrogen, Ammonia as N	0.24	mg/L	0.10	97	90	110			Run: TECHAA2-R_100323A 03/23/10 09:54
Sample ID: R10030217-001AMS	Sample Matrix Spike								
Nitrogen, Ammonia as N	0.28	mg/L	0.10	93	80	120			Run: TECHAA2-R_100323A 03/23/10 11:34
Sample ID: R10030217-001AMSD	Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N	0.27	mg/L	0.10	88	80	120	4.7	10	Run: TECHAA2-R_100323A 03/23/10 11:35

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R130823		
Sample ID: MB-100319A	Method Blank		Run: SUB-C130823				03/19/10 10:46		
Silicon	ND	mg/L	0.007						
Aluminum	ND	mg/L	0.01						
Barium	ND	mg/L	0.0005						
Boron	0.01	mg/L	0.009						
Calcium	ND	mg/L	0.2						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.001						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.05						
Manganese	ND	mg/L	0.0004						
Molybdenum	ND	mg/L	0.005						
Nickel	ND	mg/L	0.003						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.3						
Zinc	ND	mg/L	0.001						
Sample ID: LFB-100319A	Laboratory Fortified Blank		Run: SUB-C130823				03/19/10 10:50		
Silicon	0.47	mg/L	0.0075	100	85	115			
Aluminum	0.92	mg/L	0.10	92	85	115			
Barium	0.94	mg/L	0.10	94	85	115			
Boron	0.96	mg/L	0.10	95	85	115			
Calcium	48	mg/L	0.50	95	85	115			
Chromium	0.93	mg/L	0.050	93	85	115			
Copper	0.95	mg/L	0.010	95	85	115			
Iron	0.95	mg/L	0.030	95	85	115			
Magnesium	47	mg/L	0.50	95	85	115			
Manganese	0.92	mg/L	0.010	92	85	115			
Molybdenum	0.96	mg/L	0.10	96	85	115			
Nickel	0.92	mg/L	0.050	92	85	115			
Potassium	44	mg/L	0.50	89	85	115			
Sodium	47	mg/L	0.50	93	85	115			
Zinc	0.94	mg/L	0.010	94	85	115			
Sample ID: C10030544-001BMS2	Sample Matrix Spike		Run: SUB-C130823				03/19/10 12:50		
Aluminum	1.98	mg/L	0.10	97	70	130			
Barium	1.96	mg/L	0.10	93	70	130			
Boron	2.00	mg/L	0.10	96	70	130			
Chromium	1.92	mg/L	0.050	94	70	130			
Copper	1.95	mg/L	0.010	96	70	130			
Iron	1.97	mg/L	0.030	95	70	130			
Manganese	1.91	mg/L	0.010	92	70	130			
Molybdenum	1.91	mg/L	0.10	94	70	130			
Nickel	1.89	mg/L	0.050	93	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 05/03/10
 Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: C_R130823		
Sample ID: C10030544-001BMS2	Sample Matrix Spike			Run: SUB-C130823			03/19/10 12:50		
Silicon	7.39	mg/L	0.10		70	130			A
Zinc	2.00	mg/L	0.010	97	70	130			
Calcium	157	mg/L	1.0	96	70	130			
Magnesium	105	mg/L	1.0	93	70	130			
Potassium	102	mg/L	1.0	91	70	130			
Sodium	127	mg/L	1.0	94	70	130			
Sample ID: C10030544-001BMSD2	Sample Matrix Spike Duplicate			Run: SUB-C130823			03/19/10 12:54		
Aluminum	1.99	mg/L	0.10	98	70	130	0.8	20	
Barium	1.99	mg/L	0.10	94	70	130	1.3	20	
Boron	2.01	mg/L	0.10	96	70	130	0.5	20	
Chromium	1.91	mg/L	0.050	93	70	130	1	20	
Copper	1.94	mg/L	0.010	95	70	130	0.9	20	
Iron	1.92	mg/L	0.030	93	70	130	2.5	20	
Manganese	1.90	mg/L	0.010	92	70	130	0.1	20	
Molybdenum	1.93	mg/L	0.10	94	70	130	0.7	20	
Nickel	1.88	mg/L	0.050	92	70	130	0.6	20	
Silicon	7.28	mg/L	0.10		70	130	1.5	20	A
Zinc	1.97	mg/L	0.010	96	70	130	1.3	20	
Calcium	155	mg/L	1.0	94	70	130	1.3	20	
Magnesium	105	mg/L	1.0	93	70	130	0.2	20	
Potassium	103	mg/L	1.0	92	70	130	0.6	20	
Sodium	125	mg/L	1.0	93	70	130	1.1	20	
Method: E200.7							Batch: C_R130908		
Sample ID: MB-100323A	Method Blank			Run: SUB-C130908			03/23/10 10:49		
Boron	ND	mg/L	0.009						
Iron	ND	mg/L	0.002						
Sample ID: LFB-100323A	Laboratory Fortified Blank			Run: SUB-C130908			03/23/10 10:53		
Boron	0.98	mg/L	0.10	98	85	115			
Iron	0.96	mg/L	0.030	96	85	115			
Sample ID: R10030205-002D	Sample Matrix Spike			Run: SUB-C130908			03/23/10 14:22		
Boron	5.17	mg/L	0.10	100	70	130			
Iron	5.35	mg/L	0.042	98	70	130			
Sample ID: R10030205-002D	Sample Matrix Spike Duplicate			Run: SUB-C130908			03/23/10 14:26		
Boron	5.14	mg/L	0.10	99	70	130	0.7	20	
Iron	5.33	mg/L	0.042	98	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7_8							Batch: C_R130917		
Sample ID: LRB	Method Blank					Run: SUB-C130917			03/23/10 13:18
Silver	ND	mg/L		8E-05					
Thorium 232	ND	mg/L		3E-05					
Sample ID: LFB	Laboratory Fortified Blank					Run: SUB-C130917			03/23/10 13:25
Silver	0.0215	mg/L	0.0010	108	85	115			
Thorium 232	0.0531	mg/L	0.0010	106	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 05/03/10
 Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R130826
Sample ID: LRB	Method Blank								Run: SUB-C130826 03/19/10 12:49
Arsenic	ND	mg/L	0.0003						
Cadmium	ND	mg/L	6E-05						
Lead	ND	mg/L	2E-05						
Mercury	ND	mg/L	4E-05						
Silver	0.0003	mg/L	2E-05						
Thorium 232	0.0002	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Vanadium	ND	mg/L	9E-05						
Sample ID: LFB	Laboratory Fortified Blank								Run: SUB-C130826 03/19/10 12:56
Arsenic	0.0499	mg/L	0.0010	100	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Lead	0.0497	mg/L	0.0010	99	85	115			
Mercury	0.00501	mg/L	0.0010	100	85	115			
Silver	0.0196	mg/L	0.0010	97	85	115			
Thorium 232	0.0426	mg/L	0.0010	85	85	115			
Uranium	0.0478	mg/L	0.00030	96	85	115			
Vanadium	0.0497	mg/L	0.0010	99	85	115			
Sample ID: C10030605-002BMS4	Post Digestion Spike								Run: SUB-C130826 03/20/10 01:27
Arsenic	0.0512	mg/L	0.0010	98	70	130			
Cadmium	0.0469	mg/L	0.010	94	70	130			
Lead	0.0481	mg/L	0.050	96	70	130			
Mercury	0.00474	mg/L	0.0010	95	70	130			
Silver	0.0147	mg/L	0.010	73	70	130			
Thorium 232	0.0371	mg/L	0.0010	74	70	130			
Uranium	0.0685	mg/L	0.00030	101	70	130			
Vanadium	0.0533	mg/L	0.10	96	70	130			
Sample ID: C10030605-002BMSD4	Post Digestion Spike Duplicate								Run: SUB-C130826 03/20/10 01:33
Arsenic	0.0513	mg/L	0.0010	98	70	130	0.2	20	
Cadmium	0.0471	mg/L	0.010	94	70	130	0.6	20	
Lead	0.0482	mg/L	0.0010	96	70	130	0.1	20	
Mercury	0.00486	mg/L	0.0010	98	70	130	2.4	20	
Silver	0.0158	mg/L	0.010	79	70	130	7.2	20	
Thorium 232	0.0431	mg/L	0.0010	86	70	130	15	20	
Uranium	0.0687	mg/L	0.00030	101	70	130	0.3	20	
Vanadium	0.0538	mg/L	0.0010	97	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R130867		
Sample ID: LRB	Method Blank		Run: SUB-C130867			03/22/10 12:15			
Antimony	0.0001	mg/L	0.0001						
Arsenic	ND	mg/L	0.0003						
Barium	ND	mg/L	3E-05						
Beryllium	ND	mg/L	6E-05						
Cadmium	ND	mg/L	6E-05						
Chromium	ND	mg/L	8E-05						
Copper	ND	mg/L	4E-05						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	5E-05						
Molybdenum	9E-05	mg/L	4E-05						
Nickel	ND	mg/L	9E-05						
Selenium	ND	mg/L	0.001						
Silver	0.0002	mg/L	2E-05						
Strontium	ND	mg/L	2E-05						
Thallium	ND	mg/L	3E-05						
Uranium	ND	mg/L	8E-06						
Zinc	0.001	mg/L	6E-05						
Sample ID: LFB	Laboratory Fortified Blank		Run: SUB-C130867			03/22/10 12:21			
Antimony	0.0514	mg/L	0.0010	102	85	115			
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Barium	0.0519	mg/L	0.0010	104	85	115			
Beryllium	0.0535	mg/L	0.0010	107	85	115			
Cadmium	0.0516	mg/L	0.0010	103	85	115			
Chromium	0.0514	mg/L	0.0010	103	85	115			
Copper	0.0522	mg/L	0.0010	104	85	115			
Lead	0.0523	mg/L	0.0010	105	85	115			
Manganese	0.0519	mg/L	0.0010	104	85	115			
Molybdenum	0.0524	mg/L	0.0010	105	85	115			
Nickel	0.0518	mg/L	0.0010	104	85	115			
Selenium	0.0528	mg/L	0.0014	106	85	115			
Silver	0.0198	mg/L	0.0010	98	85	115			
Strontium	0.0517	mg/L	0.0010	103	85	115			
Thallium	0.0522	mg/L	0.0010	104	85	115			
Uranium	0.0515	mg/L	0.00030	103	85	115			
Zinc	0.0544	mg/L	0.0010	107	85	115			
Sample ID: C10030680-001BMS4	Post Digestion Spike		Run: SUB-C130867			03/22/10 13:09			
Antimony	0.284	mg/L	0.050	113	70	130			
Arsenic	0.266	mg/L	0.0010	104	70	130			
Barium	0.583	mg/L	0.10	98	70	130			
Beryllium	0.244	mg/L	0.010	98	70	130			
Cadmium	0.241	mg/L	0.010	97	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Batch: C_R130867		
Sample ID: C10030680-001BMS4	Post Digestion Spike			Run: SUB-C130867			03/22/10 13:09		
Chromium	0.256	mg/L	0.050	97	70	130			
Copper	0.244	mg/L	0.010	95	70	130			
Lead	0.265	mg/L	0.050	106	70	130			
Manganese	0.869	mg/L	0.010	47	70	130			S
Molybdenum	0.300	mg/L	0.10	109	70	130			
Nickel	0.258	mg/L	0.050	94	70	130			
Selenium	0.274	mg/L	0.0012	94	70	130			
Silver	0.0765	mg/L	0.010	73	70	130			
Strontium	2.35	mg/L	0.10		70	130			A
Thallium	0.259	mg/L	0.10	104	70	130			
Uranium	4.33	mg/L	0.00030		70	130			A
Zinc	0.236	mg/L	0.010	63	70	130			S
Sample ID: C10030680-001BMSD4	Post Digestion Spike Duplicate			Run: SUB-C130867			03/22/10 13:43		
Antimony	0.303	mg/L	0.050	121	70	130	6.5	20	
Arsenic	0.278	mg/L	0.0010	109	70	130	4.3	20	
Barium	0.621	mg/L	0.10	113	70	130	6.4	20	
Beryllium	0.249	mg/L	0.010	100	70	130	1.8	20	
Cadmium	0.256	mg/L	0.010	102	70	130	5.8	20	
Chromium	0.266	mg/L	0.050	101	70	130	3.9	20	
Copper	0.251	mg/L	0.010	98	70	130	2.8	20	
Lead	0.278	mg/L	0.050	111	70	130	5	20	
Manganese	0.923	mg/L	0.010	68	70	130	6	20	S
Molybdenum	0.314	mg/L	0.10	115	70	130	4.5	20	
Nickel	0.268	mg/L	0.050	98	70	130	3.9	20	
Selenium	0.289	mg/L	0.0012	100	70	130	5.5	20	
Silver	0.0815	mg/L	0.010	78	70	130	6.3	20	
Strontium	2.48	mg/L	0.10		70	130	5.4	20	A
Thallium	0.273	mg/L	0.10	109	70	130	5.3	20	
Uranium	4.55	mg/L	0.00030		70	130	5.1	20	A
Zinc	0.245	mg/L	0.010	67	70	130	3.4	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_25594
Sample ID: MB-25594	Method Blank								Run: SUB-C130913 03/23/10 23:26
Uranium	0.0001	mg/L	6E-05						
Sample ID: LCS2-25594	Laboratory Control Sample								Run: SUB-C130913 03/23/10 23:31
Uranium	0.105	mg/L	0.00030	105	85	115			
Sample ID: R10030205-003I	Post Digestion Spike								Run: SUB-C130913 03/23/10 23:47
Uranium	0.00656	mg/L	0.00030	104	70	130			
Sample ID: R10030205-003I	Post Digestion Spike Duplicate								Run: SUB-C130913 03/23/10 23:51
Uranium	0.00656	mg/L	0.00030	104	70	130	0.1	20	
Method: E200.8									Batch: C_R130917
Sample ID: C10030663-005BMS4	Post Digestion Spike								Run: SUB-C130917 03/23/10 15:41
Silver	0.0161	mg/L	0.010	80	70	130			
Thorium 232	0.0547	mg/L	0.0010	109	70	130			
Sample ID: C10030663-005BMSD4	Post Digestion Spike Duplicate								Run: SUB-C130917 03/23/10 16:15
Silver	0.0169	mg/L	0.010	84	70	130	5	20	
Thorium 232	0.0560	mg/L	0.0010	112	70	130	2.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Analytical Run: SUB-B144938		
Sample ID: QCS	Initial Calibration Verification Standard								03/22/10 11:10
Mercury	0.0020	mg/L	0.0010	100	90	110			
Method: E245.1							Batch: B_45135		
Sample ID: MB-45135	Method Blank								03/22/10 11:16
Mercury	ND	mg/L	5E-05			Run: SUB-B144938			
Sample ID: LCS-45135	Laboratory Control Sample								03/22/10 11:18
Mercury	0.0021	mg/L	0.0010	105	85	115			
Sample ID: B10031588-004EMS	Sample Matrix Spike								03/22/10 11:52
Mercury	0.0020	mg/L	0.0010	101	70	130			
Sample ID: B10031588-004EMSD	Sample Matrix Spike Duplicate								03/22/10 11:54
Mercury	0.0020	mg/L	0.0010	101	70	130	0.5	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Batch: R45163		
Sample ID: LFB031810-10	Laboratory Fortified Blank			Run: DIONEX_100318A			03/18/10 17:28		
Chloride	9.90	mg/L	1.0	99	90	110			
Fluoride	3.96	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N	4.85	mg/L	0.10	97	90	110			
Nitrogen, Nitrite as N	5.29	mg/L	0.10	106	90	110			
Sulfate	28.2	mg/L	1.0	94	90	110			
Sample ID: R10030205-001AMS	Sample Matrix Spike			Run: DIONEX_100318A			03/18/10 18:17		
Chloride	204	mg/L	2.2	76	90	110			S
Fluoride	80.6	mg/L	0.22	101	90	110			
Nitrogen, Nitrate as N	97.2	mg/L	0.50	97	90	110			
Nitrogen, Nitrite as N	106	mg/L	1.2	106	90	110			
Sulfate	1000	mg/L	1.3	83	90	110			S
Sample ID: R10030205-001AMSD	Sample Matrix Spike Duplicate			Run: DIONEX_100318A			03/18/10 18:34		
Chloride	202	mg/L	2.2	74	90	110	1.2	10	S
Fluoride	79.8	mg/L	0.22	100	90	110	1.1	10	
Nitrogen, Nitrate as N	96.1	mg/L	0.50	96	90	110	1.1	10	
Nitrogen, Nitrite as N	105	mg/L	1.2	105	90	110	1.4	10	
Sulfate	996	mg/L	1.3	81	90	110	0.8	10	S

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 05/03/10
 Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0873		
Sample ID: MB-GrAB-0873	Method Blank				Run: SUB-C131111				03/29/10 23:12
Gross Alpha	0.2	pCi/L							U
Gross Alpha precision (±)	0.7	pCi/L							
Gross Alpha MDC	0.8	pCi/L							
Gross Beta	-0.8	pCi/L							U
Gross Beta precision (±)	2	pCi/L							
Gross Beta MDC	2	pCi/L							
Sample ID: Th230-GrAB-0873	Laboratory Control Sample				Run: SUB-C131111				03/29/10 23:12
Gross Alpha	110	pCi/L	107		70	130			
Sample ID: Cs137-GrAB-0873	Laboratory Control Sample				Run: SUB-C131111				03/29/10 23:12
Gross Beta	94	pCi/L	105		70	130			
Sample ID: C10030544-001DDUP	Sample Duplicate				Run: SUB-C131111				03/29/10 23:12
Gross Alpha	4.9	pCi/L					28	72.3	
Gross Alpha precision (±)	1.7	pCi/L							
Gross Alpha MDC	2.4	pCi/L							
Gross Beta	12	pCi/L					11	41.9	
Gross Beta precision (±)	2.0	pCi/L							
Gross Beta MDC	3.1	pCi/L							
Sample ID: C10030685-003AMS	Sample Matrix Spike				Run: SUB-C131111				03/30/10 11:56
Gross Alpha	107	pCi/L	105		70	130			
Sample ID: C10030685-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C131111				03/30/10 11:56
Gross Alpha	95.4	pCi/L	94		70	130	11	18.2	
Sample ID: C10030685-003AMS	Sample Matrix Spike				Run: SUB-C131111				03/30/10 11:56
Gross Beta	99.3	pCi/L	113		70	130			
Sample ID: C10030685-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C131111				03/30/10 11:56
Gross Beta	107	pCi/L	122		70	130	7.9	16.1	

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0							Batch: C_GrAB-0885		
Sample ID: MB-GrAB-0885	Method Blank				Run: SUB-C131733			04/16/10 22:20	
Gross Alpha	-0.1	pCi/L							U
Gross Alpha precision (±)	0.7	pCi/L							
Gross Alpha MDC	0.7	pCi/L							
Gross Beta	1	pCi/L							U
Gross Beta precision (±)	2	pCi/L							
Gross Beta MDC	2	pCi/L							
Sample ID: Th230-GrAB-0885	Laboratory Control Sample				Run: SUB-C131733			04/16/10 22:20	
Gross Alpha	97	pCi/L		95	70	130			
Sample ID: Cs137-GrAB-0885	Laboratory Control Sample				Run: SUB-C131733			04/16/10 22:20	
Gross Beta	91	pCi/L		100	70	130			
Sample ID: C10040184-005AMS	Sample Matrix Spike				Run: SUB-C131733			04/16/10 22:20	
Gross Alpha	92.2	pCi/L		90	70	130			
Sample ID: C10040184-005AMSD	Sample Matrix Spike Duplicate				Run: SUB-C131733			04/16/10 22:20	
Gross Alpha	107	pCi/L		105	70	130	15	16.7	
Sample ID: C10040184-005AMS	Sample Matrix Spike				Run: SUB-C131733			04/16/10 22:20	
Gross Beta	96.0	pCi/L		106	70	130			
Sample ID: C10040184-005AMSD	Sample Matrix Spike Duplicate				Run: SUB-C131733			04/16/10 22:20	
Gross Beta	95.8	pCi/L		105	70	130	0.2	15.9	
Sample ID: C10040305-001ADUP	Sample Duplicate				Run: SUB-C131733			04/17/10 10:27	
Gross Alpha	18.7	pCi/L					23	46.5	
Gross Alpha precision (±)	3.21	pCi/L							
Gross Alpha MDC	3.48	pCi/L							
Gross Beta	9.59	pCi/L					53	63.1	
Gross Beta precision (±)	2.12	pCi/L							
Gross Beta MDC	3.26	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1							Batch: C_R130928		
Sample ID: LCS-R130928	Laboratory Control Sample			Run: SUB-C130928			03/22/10 09:00		
Americium 241	710	pCi/L	20	80	70	130			
Barium 133	540	pCi/L	20	98	70	130			
Cesium 137	900	pCi/L	20	98	70	130			
Potassium 40	2500	pCi/L	20	76	70	130			
Sample ID: MB-R130928	Method Blank			Run: SUB-C130928			03/22/10 09:00		
Gross Gamma	ND	pCi/L							U
Sample ID: R10030205-003H	Sample Duplicate			Run: SUB-C130928			03/22/10 09:00		
Gross Gamma	780	pCi/L	20				25	30	
Gross Gamma precision (±)	130	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: C_RA226-4424		
Sample ID: R10030205-001H	Sample Matrix Spike				Run: SUB-C131089				03/29/10 17:02
Radium 226	20	pCi/L		114	70	130			
Sample ID: R10030205-001H	Sample Matrix Spike Duplicate				Run: SUB-C131089				03/29/10 17:02
Radium 226	19	pCi/L		109	70	130	5.2	21.9	
Sample ID: MB-RA226-4424	Method Blank				Run: SUB-C131089				03/29/10 22:05
Radium 226	0.03	pCi/L							U
Radium 226 precision (±)	0.09	pCi/L							
Radium 226 MDC	0.1	pCi/L							
Sample ID: LCS-RA226-4424	Laboratory Control Sample				Run: SUB-C131089				03/29/10 22:05
Radium 226	8.2	pCi/L		103	70	130			
Method: E903.0							Batch: C_R131112		
Sample ID: LCS-25594	Laboratory Control Sample				Run: SUB-C131112				03/29/10 23:54
Radium 226	15	pCi/L		97	70	130			
Sample ID: MB-25594	Method Blank				Run: SUB-C131112				03/29/10 23:54
Radium 226	0.4	pCi/L							
Radium 226 precision (±)	0.2	pCi/L							
Radium 226 MDC	0.2	pCi/L							
Sample ID: C10030615-001AMS	Sample Matrix Spike				Run: SUB-C131112				03/29/10 23:54
Radium 226	1400	pCi/g-dry		4340	70	130			S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The two LCSs and the MB meet acceptance criteria; this batch is approved.									
Sample ID: C10030615-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C131112				03/29/10 23:54
Radium 226	2700	pCi/g-dry		22100	70	130	65	10.6	SR

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration
 S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
 R - RPD exceeds advisory limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0							Batch: C_RA-TH-ISO-1125		
Sample ID: LCS-RA-TH-ISO-1125	Laboratory Control Sample				Run: SUB-C130898				03/23/10 08:45
Thorium 230	5.3	pCi/L		101	70	130			
Sample ID: R10030205-003H	Sample Matrix Spike				Run: SUB-C130898				03/23/10 08:45
Thorium 230	15	pCi/L		113	70	130			
Sample ID: R10030205-003H	Sample Matrix Spike Duplicate				Run: SUB-C130898				03/23/10 08:45
Thorium 230	13	pCi/L		97	70	130	17	39.7	
Sample ID: MB-RA-TH-ISO-1125	Method Blank				Run: SUB-C130898				03/23/10 08:45
Thorium 230	0.01	pCi/L							U
Thorium 230 MDC	0.2	pCi/L							
Thorium 230 precision (±)	0.09	pCi/L							
Method: E907.0							Batch: C_25594		
Sample ID: R10030205-003I	Sample Matrix Spike				Run: SUB-C130981				03/23/10 17:02
Thorium 230	5.9	pCi/L		116	70	130			
Sample ID: R10030205-003I	Sample Matrix Spike Duplicate				Run: SUB-C130981				03/23/10 17:02
Thorium 230	5.1	pCi/L		106	70	130	15	35.1	
Sample ID: LCS-25594	Laboratory Control Sample				Run: SUB-C130981				03/23/10 17:02
Thorium 230	4.9	pCi/L		102	70	130			
Sample ID: MB-25594	Method Blank				Run: SUB-C130981				03/23/10 17:02
Thorium 230	-0.07	pCi/L							U
Thorium 230 MDC	0.1	pCi/L							
Thorium 230 precision (±)	0.09	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
 Project: Dewey Groundwater Sampling

Report Date: 05/03/10
 Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M							Batch: C_PB-210-0677		
Sample ID: C09100378-001BMS	Sample Matrix Spike				Run: SUB-C131275		04/04/10 04:36		
Lead 210	240	pCi/L		109	70	130			
Sample ID: C09100378-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C131275		04/04/10 06:38		
Lead 210	240	pCi/L		109	70	130	0	17.4	
Sample ID: MB-PB-210-0677	Method Blank				Run: SUB-C131275		04/04/10 08:39		
Lead 210	-0.2	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	6	pCi/L							
Sample ID: LCS-PB-210-0677	Laboratory Control Sample				Run: SUB-C131275		04/04/10 10:41		
Lead 210	92	pCi/L		83	70	130			
Sample ID: LCS-PB-210-0677	Laboratory Control Sample				Run: SUB-C131275		04/04/10 12:42		
Lead 210	130	pCi/L		115	70	130			
Method: E909.0M							Batch: C_PB-210-0679		
Sample ID: R10030205-0011	Sample Matrix Spike				Run: SUB-C131286		04/02/10 05:59		
Lead 210	110	pCi/L		86	70	130			
Sample ID: R10030205-0011	Sample Matrix Spike Duplicate				Run: SUB-C131286		04/02/10 08:00		
Lead 210	120	pCi/L		90	70	130	5.1	17.8	
Sample ID: MB-25594	Method Blank				Run: SUB-C131286		04/02/10 14:05		
Lead 210	3	pCi/L							U
Lead 210 precision (±)	3	pCi/L							
Lead 210 MDC	5	pCi/L							
Sample ID: LCS-25594	Laboratory Control Sample				Run: SUB-C131286		04/02/10 16:07		
Lead 210	500	pCi/L		95	70	130			
Sample ID: LCS-PB-210-0679	Laboratory Control Sample				Run: SUB-C131286		04/02/10 18:09		
Lead 210	450	pCi/L		81	70	130			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 05/03/10
Work Order: R10030205

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0							Batch: C_PO210-0289		
Sample ID: C10030544-003EMS	Sample Matrix Spike				Run: SUB-C131016				03/26/10 08:55
Polonium 210	34	pCi/L		104	70	130			
Sample ID: C10030544-003EMSD	Sample Matrix Spike Duplicate				Run: SUB-C131016				03/26/10 08:55
Polonium 210	32	pCi/L		98	70	130	7.1	56.9	
Sample ID: LCS-PO210-0289	Laboratory Control Sample				Run: SUB-C131016				03/26/10 11:35
Polonium 210	19	pCi/L		113	70	130			
Sample ID: MB-PO210-0289	Method Blank				Run: SUB-C131016				03/26/10 11:35
Polonium 210	-0.04	pCi/L							U
Polonium 210 MDC	0.5	pCi/L							
Polonium 210 precision (±)	0.2	pCi/L							
Method: E912.0							Batch: C_R131341		
Sample ID: R10030205-002I	Sample Matrix Spike				Run: SUB-C131341				04/06/10 08:44
Polonium 210	15	pCi/L		78	70	130			
Sample ID: R10030205-002I	Sample Matrix Spike Duplicate				Run: SUB-C131341				04/06/10 08:44
Polonium 210	20	pCi/L		103	70	130	28	52.1	
Sample ID: LCS-25594	Laboratory Control Sample				Run: SUB-C131341				04/06/10 11:37
Polonium 210	74	pCi/L		95	70	130			
Sample ID: MB-25594	Method Blank				Run: SUB-C131341				04/06/10 11:37
Polonium 210	-0.2	pCi/L							U
Polonium 210 precision (±)	1	pCi/L							
Polonium 210 MDC	3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Scott Ew,		Project Name, PWS, Permit, Etc. Powertek, Deep Bedrock		Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: Powertek		Contact Name: Allen Scott		Email:	Sampler (Please Print)
Invoice Address: 59 Ave		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
Special Report/Formats - EII must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MMWTP <input type="checkbox"/> Format: <input type="checkbox"/> State: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC <input type="checkbox"/> Other: <input type="checkbox"/>			ANALYSIS REQUESTED Number of Containers Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other		
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)			SEE ATTACHED		
1	DB-09-21-01	3-15-10	Collection Date	Collection Time	MATRIX
2	DB-09-21-01 Dup.	3-15-10			Water
3	DB-09-21-02	3-15-10			" "
4					
5					
6					
7					
8					
9					
10					
Custody Record MUST be Signed		Requested by (print): Allen Scott		Date/Time: 3-17-10 2:45	Signature: Allen Scott
Sample Disposal: Return to Client:		Lab Disposal:		Received by (print): Steve Holland	Date/Time: 3-17-10 3:45
In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This service has notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.		Requested by (print): Steve Holland		Date/Time: 3-17-10 3:45	Signature: Steve Holland

See Attached

Normal Turnaround (TAT)
RUSH

LABORATORY USE ONLY

002
003



ANALYTICAL SUMMARY REPORT

June 15, 2010

Mark Hollenbeck
Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10040303

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 4/22/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10040303-001	DB-09-21-01	04/21/10 0:00	04/22/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10040303-002	DB-09-21-02	04/21/10 0:00	04/22/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: *Linda K. Larson*
Branch Manager

Digitally signed by
Linda Larson
Date: 2010.06.15 16:13:03 -06:00



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10040303

Report Date: 06/15/10

CASE NARRATIVE

Tests Associated with Analyst identified as ELI-CA were subcontracted to Energy Laboratories Casper Branch, EPA Number WY00002.

Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

Radon analysis was subbed to the South Dakota State Health Lab.

Comments imported for SUBBED Workorder: C10040835

PB210 ANALYSIS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

End of comments imported for SUBBED Workorder: C10040835



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-001
Client Sample ID: DB-09-21-01

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/	DF	Method	Analysis Date / By
					QCL			
MAJOR IONS								
Alkalinity, Total as CaCO3	104	mg/L		5		1	A2320 B	04/29/10 17:19/ch
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/29/10 17:19/ch
Bicarbonate as HCO3	127	mg/L		5		1	A2320 B	04/29/10 17:19/ch
Calcium	76	mg/L	D	1		5	E200.7	04/26/10 19:11/eli-c
Chloride	7	mg/L		1		1	E300.0	04/22/10 22:16/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	04/22/10 22:16/jmh
Magnesium	28.0	mg/L		0.5		5	E200.7	04/26/10 19:11/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G	05/04/10 16:50/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/22/10 22:16/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	04/22/10 22:16/jmh
Potassium	12.7	mg/L		0.5		5	E200.7	04/26/10 19:11/eli-c
Sodium	168	mg/L	D	1		5	E200.7	04/26/10 19:11/eli-c
Sulfate	521	mg/L		1		20	E300.0	05/07/10 03:03/jmh
Silica	10.3	mg/L		0.2		5	E200.7	04/26/10 19:11/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm		5.0		1	A2510 B	04/27/10 10:44/tb
Oxidation-Reduction Potential	230	mV				1	A2580 B	04/28/10 16:00/jmh
pH	8.04	s.u.		0.01		1	A4500-H B	04/23/10 10:54/tb
Sodium Adsorption Ratio (SAR)	4.2	unitless		0.10		1	Calculation	05/03/10 10:11/ADM
Solids, Total Dissolved TDS @ 180 C	970	mg/L		5		1	A2540 C	04/26/10 15:16/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/26/10 19:11/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	04/26/10 17:24/eli-c
Barium	ND	mg/L		0.1		5	E200.7	04/26/10 19:11/eli-c
Boron	0.2	mg/L		0.1		5	E200.7	04/26/10 19:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/10 17:24/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	04/26/10 19:11/eli-c
Copper	ND	mg/L		0.01		5	E200.7	04/26/10 19:11/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/26/10 19:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/10 17:24/eli-c
Manganese	0.02	mg/L		0.01		5	E200.7	04/26/10 19:11/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/26/10 17:24/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.7	04/26/10 19:11/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	04/26/10 19:11/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/26/10 14:23/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	04/26/10 17:24/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/27/10 22:51/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-001
Client Sample ID: DB-09-21-01

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/26/10 17:24/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/26/10 17:24/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/27/10 22:51/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/28/10 22:31/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/26/10 10:27/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/26/10 15:45/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	7.5	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Alpha precision (±)	3.3	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Alpha MDC	4.6	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta	12.8	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta MDC	3.7	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Lead 210	-2	pCi/L	U			1	E909.0M	05/07/10 12:59/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	05/07/10 12:59/eli-c
Lead 210 MDC	2.6	pCi/L				1	E909.0M	05/07/10 12:59/eli-c
Polonium 210	-0.039	pCi/L	U			1	E912.0	05/04/10 15:33/eli-ca
Polonium 210 MDC	0.56	pCi/L				1	E912.0	05/04/10 15:33/eli-ca
Polonium 210 precision (±)	0.20	pCi/L				1	E912.0	05/04/10 15:33/eli-ca
Radium 226	1.8	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Thorium 230	0.1	pCi/L	U			1	E907.0	04/27/10 16:58/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	04/27/10 16:58/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/27/10 16:58/eli-c
Gross Gamma	1000	pCi/L				1	E901.1	04/27/10 09:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	04/27/10 09:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.1	pCi/L	U			1	E909.0M	05/08/10 23:12/eli-c
Lead 210 precision (±)	3.1	pCi/L				1	E909.0M	05/08/10 23:12/eli-c
Lead 210 MDC	5.2	pCi/L				1	E909.0M	05/08/10 23:12/eli-c
Polonium 210	0.18	pCi/L	U			1	E912.0	05/04/10 13:24/eli-ca
Polonium 210 precision (±)	0.60	pCi/L				1	E912.0	05/04/10 13:24/eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-001
Client Sample ID: DB-09-21-01

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	1.2	pCi/L				1	E912.0	05/04/10 13:24/eli-ca
Radium 226	-0.01	pCi/L	U			1	E903.0	05/05/10 17:03/eli-ca
Radium 226 precision (±)	0.07	pCi/L				1	E903.0	05/05/10 17:03/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/05/10 17:03/eli-ca
Thorium 230	-0.1	pCi/L	U			1	E907.0	04/30/10 08:55/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/30/10 08:55/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	ND	pCi/L		100		1	D5072-92	04/23/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	04/26/10 18:12/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	04/26/10 18:12/eli-c
Barium	ND	mg/L		0.1		5	E200.7	04/26/10 22:44/eli-c
Beryllium	ND	mg/L		0.001		5	E200.7	04/26/10 22:44/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	04/26/10 22:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/10 18:12/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	04/26/10 22:44/eli-c
Copper	ND	mg/L		0.01		5	E200.7	04/26/10 22:44/eli-c
Iron	0.11	mg/L	D	0.04		5	E200.7	04/26/10 22:44/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/10 18:12/eli-c
Manganese	0.02	mg/L		0.01		5	E200.7	04/26/10 22:44/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	04/26/10 12:06/eli-b
Molybdenum	ND	mg/L		0.1		5	E200.7	04/26/10 22:44/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	04/26/10 22:44/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	04/26/10 18:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/26/10 18:12/eli-c
Strontium	2.6	mg/L		0.1		5	E200.7	04/26/10 22:44/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	04/26/10 18:12/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/26/10 18:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/27/10 22:57/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.20	%				1	A1030 E	06/15/10 00:00/lkl
Anions	13.2	meq/L				1	A1030 E	06/15/10 00:00/lkl
Cations	13.7	meq/L				1	A1030 E	06/15/10 00:00/lkl
Solids, Total Dissolved Calculated	903	mg/L				1	A1030 E	06/15/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	06/15/10 00:00/lkl

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-002
Client Sample ID: DB-09-21-02

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	198	mg/L		5		1	A2320 B	04/29/10 17:22/ch
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/29/10 17:22/ch
Bicarbonate as HCO3	241	mg/L		5		1	A2320 B	04/29/10 17:22/ch
Calcium	173	mg/L	D	1		5	E200.7	04/26/10 19:23/eli-c
Chloride	9	mg/L		1		1	E300.0	04/22/10 23:54/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	04/22/10 23:54/jmh
Magnesium	48.6	mg/L		0.5		5	E200.7	04/26/10 19:23/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/04/10 16:51/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/22/10 23:54/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	04/22/10 23:54/jmh
Potassium	11.9	mg/L		0.5		5	E200.7	04/26/10 19:23/eli-c
Sodium	134	mg/L	D	1		5	E200.7	04/26/10 19:23/eli-c
Sulfate	659	mg/L		1		20	E300.0	05/07/10 03:19/jmh
Silica	9.0	mg/L		0.2		5	E200.7	04/26/10 19:23/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1600	umhos/cm		5.0		1	A2510 B	04/27/10 10:48/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B	04/28/10 16:00/jmh
pH	7.50	s.u.		0.01		1	A4500-H B	04/23/10 10:58/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation	05/03/10 10:11/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L		5		1	A2540 C	04/26/10 15:18/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/26/10 19:23/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	04/26/10 18:18/eli-c
Barium	ND	mg/L		0.1		5	E200.7	04/26/10 19:23/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	04/26/10 19:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/10 18:18/eli-c
Chromium	ND	mg/L		0.05		5	E200.7	04/26/10 19:23/eli-c
Copper	ND	mg/L		0.01		5	E200.7	04/26/10 19:23/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/26/10 19:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/10 18:18/eli-c
Manganese	0.56	mg/L		0.01		5	E200.7	04/26/10 19:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/26/10 18:18/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.7	04/26/10 19:23/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	04/26/10 19:23/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	04/26/10 14:30/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	04/26/10 18:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/27/10 23:32/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-002
Client Sample ID: DB-09-21-02

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0084	mg/L		0.0003		1	E200.8	04/26/10 18:18/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/26/10 18:18/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/27/10 23:32/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	04/28/10 22:35/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/26/10 10:34/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/26/10 15:45/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	56.3	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Alpha precision (±)	7.1	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Alpha MDC	6.2	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta	32.7	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Gross Beta MDC	5.1	pCi/L				1	E900.0	05/04/10 00:09/eli-ca
Lead 210	-2	pCi/L	U			1	E909.0M	05/07/10 15:03/eli-c
Lead 210 precision (±)	1.6	pCi/L				1	E909.0M	05/07/10 15:03/eli-c
Lead 210 MDC	2.7	pCi/L				1	E909.0M	05/07/10 15:03/eli-c
Polonium 210	-0.0025	pCi/L	U			1	E912.0	05/04/10 15:33/eli-ca
Polonium 210 MDC	0.60	pCi/L				1	E912.0	05/04/10 15:33/eli-ca
Polonium 210 precision (±)	0.24	pCi/L				1	E912.0	05/04/10 15:33/eli-ca
Radium 226	4.3	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	05/01/10 18:26/eli-ca
Thorium 230	0.004	pCi/L	U			1	E907.0	04/27/10 16:58/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	04/27/10 16:58/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	04/27/10 16:58/eli-c
Gross Gamma	960	pCi/L				1	E901.1	04/27/10 09:00/eli-c
Gross Gamma precision (±)	200	pCi/L				1	E901.1	04/27/10 09:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.7	pCi/L	U			1	E909.0M	05/09/10 05:17/eli-c
Lead 210 precision (±)	3.1	pCi/L				1	E909.0M	05/09/10 05:17/eli-c
Lead 210 MDC	5.2	pCi/L				1	E909.0M	05/09/10 05:17/eli-c
Polonium 210	0.14	pCi/L	U			1	E912.0	05/04/10 13:24/eli-ca
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	05/04/10 13:24/eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10040303-002
Client Sample ID: DB-09-21-02

Report Date: 06/15/10
Collection Date: 04/21/10
Date Received: 04/22/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Polonium 210 MDC	0.48	pCi/L				1 E912.0	05/04/10 13:24/eli-ca
Radium 226	0.03	pCi/L	U			1 E903.0	05/05/10 17:03/eli-ca
Radium 226 precision (±)	0.08	pCi/L				1 E903.0	05/05/10 17:03/eli-ca
Radium 226 MDC	0.1	pCi/L				1 E903.0	05/05/10 17:03/eli-ca
Thorium 230	0.1	pCi/L	U			1 E907.0	04/30/10 08:55/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	04/30/10 08:55/eli-c
- See Case Narrative regarding Pb210 analysis.							
RADIONUCLIDES - TOTAL							
Radon 222	303	pCi/L		100		1 D5072-92	04/23/10 00:00/lkl
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	04/26/10 18:25/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	04/26/10 18:25/eli-c
Barium	ND	mg/L		0.1		5 E200.7	04/26/10 22:48/eli-c
Beryllium	ND	mg/L		0.001		5 E200.7	04/26/10 22:48/eli-c
Boron	ND	mg/L		0.1		5 E200.7	04/26/10 22:48/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	04/26/10 18:25/eli-c
Chromium	ND	mg/L		0.05		5 E200.7	04/26/10 22:48/eli-c
Copper	ND	mg/L		0.01		5 E200.7	04/26/10 22:48/eli-c
Iron	ND	mg/L	D	0.04		5 E200.7	04/26/10 22:48/eli-c
Lead	ND	mg/L		0.001		1 E200.8	04/26/10 18:25/eli-c
Manganese	0.57	mg/L		0.01		5 E200.7	04/26/10 22:48/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	04/26/10 12:08/eli-b
Molybdenum	ND	mg/L		0.1		5 E200.7	04/26/10 22:48/eli-c
Nickel	ND	mg/L		0.05		5 E200.7	04/26/10 22:48/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	04/26/10 18:25/eli-c
Silver	ND	mg/L		0.005		1 E200.8	04/26/10 18:25/eli-c
Strontium	2.4	mg/L		0.1		5 E200.7	04/26/10 22:48/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	04/26/10 18:25/eli-c
Uranium	0.0083	mg/L		0.0003		1 E200.8	04/26/10 18:25/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	04/27/10 23:39/eli-c
DATA QUALITY							
A/C Balance (± 5)	2.25	%				1 A1030 E	06/15/10 00:00/lkl
Anions	18.0	meq/L				1 A1030 E	06/15/10 00:00/lkl
Cations	18.8	meq/L				1 A1030 E	06/15/10 00:00/lkl
Solids, Total Dissolved Calculated	1180	mg/L				1 A1030 E	06/15/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.06					1 A1030 E	06/15/10 00:00/lkl

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 100429A-ALK-SEL-W								
Sample ID: LCS1_100429A	Laboratory Control Sample					Run: PH_COND1-R_100429A			04/29/10 15:07	
Alkalinity, Total as CaCO3	976	mg/L	5.0	98	90	110				
Sample ID: MBLK1_100429A	Method Blank					Run: PH_COND1-R_100429A			04/29/10 15:29	
Alkalinity, Total as CaCO3	ND	mg/L	3							
Sample ID: R10040273-001AMS	Sample Matrix Spike					Run: PH_COND1-R_100429A			04/29/10 15:56	
Alkalinity, Total as CaCO3	326	mg/L	5.0	106	80	120				
Sample ID: R10040273-001AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_100429A			04/29/10 16:01	
Alkalinity, Total as CaCO3	326	mg/L	5.0	106	80	120	0	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Batch: 100427_1_COND-PROBE-W		
Sample ID: LCS1-1_100427		Laboratory Control Sample				Run: PH_COND2-R_100427B			04/27/10 10:29	
Conductivity @ 25 C		150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_100427		Laboratory Control Sample				Run: PH_COND2-R_100427B			04/27/10 10:37	
Conductivity @ 25 C		5230	umhos/cm	5.0	105	90	110			
Sample ID: LCS_COND-1_100427		Laboratory Control Sample				Run: PH_COND2-R_100427B			04/27/10 10:40	
Conductivity @ 25 C		1420	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_100427		Method Blank				Run: PH_COND2-R_100427B			04/27/10 10:42	
Conductivity @ 25 C		ND	umhos/cm	5						
Sample ID: R10040303-001ADUP		Sample Duplicate				Run: PH_COND2-R_100427B			04/27/10 10:46	
Conductivity @ 25 C		1300	umhos/cm	5.0				0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 100426A-SLDS-TDS-W		
Sample ID: LCS1_100426A	Laboratory Control Sample					Run: BAL-4-R_100426A		04/26/10 15:11		
Solids, Total Dissolved TDS @ 180 C		210	mg/L	10	101	90	110			
Sample ID: MBLK1_100426A	Method Blank					Run: BAL-4-R_100426A		04/26/10 15:12		
Solids, Total Dissolved TDS @ 180 C		10	mg/L	5						
Sample ID: R10040305-002AMS	Sample Matrix Spike					Run: BAL-4-R_100426A		04/26/10 15:20		
Solids, Total Dissolved TDS @ 180 C		16000	mg/L	10	77	90	110			S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 100428-ORP-ISE-W		
Sample ID: LCS		Laboratory Control Sample			Run: PH_COND2-R_100428A			04/28/10 16:00		
Oxidation-Reduction Potential		470	mV		99	95	105			
Sample ID: R10040303-001FDUP		Sample Duplicate			Run: PH_COND2-R_100428A			04/28/10 16:00		
Oxidation-Reduction Potential		230	mV					0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Analytical Run: SUB-C131969		
Sample ID: As/Se 1.0mg/L-Q 0415 Initial Calibration Verification Standard 04/26/10 10:13										
Selenium-IV		0.053	mg/L	0.0010	107	90	110			
Method: A3114 B								Batch: C_SE3114-100426A		
Sample ID: MBLK Method Blank Run: SUB-C131969 04/26/10 10:20										
Selenium-IV		0.0005	mg/L	0.0003						
Sample ID: As/Se 1.0ppm-Q 04151 Laboratory Control Sample Run: SUB-C131969 04/26/10 10:23										
Selenium-IV		0.053	mg/L	0.0010	104	90	110			
Sample ID: R10040303-001E Sample Matrix Spike Run: SUB-C131969 04/26/10 10:29										
Selenium-IV		0.038	mg/L	0.0010	75	85	115			S
Sample ID: R10040303-001E Sample Matrix Spike Duplicate Run: SUB-C131969 04/26/10 10:32										
Selenium-IV		0.038	mg/L	0.0010	76	85	115	1.5	10	S
Method: A3114 B								Analytical Run: SUB-C131994		
Sample ID: As/Se 1.0mg/L-Q 0415 Initial Calibration Verification Standard 04/26/10 14:02										
Selenium		0.052	mg/L	0.0010	104	90	110			
Method: A3114 B								Batch: C_SE3114-100426B		
Sample ID: As/Se 1.0ppm-Q 04151 Laboratory Control Sample Run: SUB-C131994 04/26/10 14:11										
Selenium		0.050	mg/L	0.0010	99	90	110			
Sample ID: MBLK Method Blank Run: SUB-C131994 04/26/10 14:16										
Selenium		0.0009	mg/L	0.0002						
Sample ID: R10040303-001E Sample Matrix Spike Run: SUB-C131994 04/26/10 14:25										
Selenium		0.044	mg/L	0.0010	87	85	115			
Sample ID: R10040303-001E Sample Matrix Spike Duplicate Run: SUB-C131994 04/26/10 14:28										
Selenium		0.046	mg/L	0.0010	91	85	115	5	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 100423_1_PH-W		
Sample ID: LCS_pH-1_100423		Laboratory Control Sample			Run: PH_COND2-R_100423A			04/23/10 10:31		
pH		7.43	s.u.	0.010	100	98.55	101.45			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2010-05-04_2_NH3_01		
Sample ID: MBLK-2		Method Blank					Run: TECHAA2-R_100504A			05/04/10 14:11
Nitrogen, Ammonia as N		0.03	mg/L	0.01						
Sample ID: LFB-3		Laboratory Fortified Blank					Run: TECHAA2-R_100504A			05/04/10 14:12
Nitrogen, Ammonia as N		0.24	mg/L	0.10	94	90	110			
Sample ID: R10040323-002BMS		Sample Matrix Spike					Run: TECHAA2-R_100504A			05/04/10 16:57
Nitrogen, Ammonia as N		0.22	mg/L	0.10	88	80	120			
Sample ID: R10040323-002BMSD		Sample Matrix Spike Duplicate					Run: TECHAA2-R_100504A			05/04/10 16:58
Nitrogen, Ammonia as N		0.22	mg/L	0.10	90	80	120	1.8	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7		Analytical Run: SUB-C132003								
Sample ID: ICV	17 Initial Calibration Verification Standard									04/26/10 11:32
Silicon		5.1	mg/L	0.0073	103	95	105			
Aluminum		2.4	mg/L	0.10	96	95	105			
Barium		2.5	mg/L	0.10	99	95	105			
Beryllium		1.2	mg/L	0.010	96	95	105			
Boron		2.5	mg/L	0.10	100	95	105			
Calcium		26	mg/L	0.50	104	95	105			
Chromium		2.5	mg/L	0.050	99	95	105			
Copper		2.5	mg/L	0.010	99	95	105			
Iron		2.6	mg/L	0.030	104	95	105			
Magnesium		25	mg/L	0.50	101	95	105			
Manganese		2.5	mg/L	0.010	98	95	105			
Molybdenum		2.5	mg/L	0.10	100	95	105			
Nickel		2.5	mg/L	0.050	102	95	105			
Potassium		24	mg/L	0.50	97	95	105			
Sodium		25	mg/L	0.50	101	95	105			
Strontium		2.5	mg/L	0.10	98	95	105			
Silica		11	mg/L	0.016	103	95	105			
Sample ID: ICSA	17 Interference Check Sample A									04/26/10 11:48
Silicon		0.0068	mg/L	0.0073		0	0			
Aluminum		520	mg/L	0.10	103	90	110			
Barium		0.00020	mg/L	0.10		0	0			
Beryllium		0.00010	mg/L	0.010		0	0			
Boron		0.0048	mg/L	0.61		0	0			
Calcium		500	mg/L	0.50	100	90	110			
Chromium		0.00070	mg/L	0.050		0	0			
Copper		0.0081	mg/L	0.010		0	0			
Iron		190	mg/L	0.030	94	90	110			
Magnesium		520	mg/L	0.50	105	90	110			
Manganese		-0.0038	mg/L	0.010		0	0			
Molybdenum		-0.0056	mg/L	0.10		0	0			
Nickel		-0.00070	mg/L	0.050		0	0			
Potassium		0.0023	mg/L	0.50		0	0			
Sodium		0.17	mg/L	0.50		0	0			
Strontium		-0.00050	mg/L	0.10		0	0			
Silica		0.015	mg/L	0.016		0	0			
Sample ID: ICSAB	17 Interference Check Sample AB									04/26/10 11:52
Silicon		0.010	mg/L	0.0073		0	0			
Aluminum		510	mg/L	0.10	103	90	120			
Barium		0.51	mg/L	0.10	103	90	110			
Beryllium		0.48	mg/L	0.010	97	90	110			
Boron		0.0053	mg/L	0.61		0	0			
Calcium		490	mg/L	0.50	99	90	110			
Chromium		0.49	mg/L	0.050	98	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Analytical Run: SUB-C132003		
Sample ID: ICSAB		17 Interference Check Sample AB						04/26/10 11:52		
Copper		0.53	mg/L	0.010	105	90	110			
Iron		180	mg/L	0.030	92	90	110			
Magnesium		520	mg/L	0.50	103	90	110			
Manganese		0.48	mg/L	0.010	95	90	110			
Molybdenum		-0.0043	mg/L	0.10		0	0			
Nickel		0.96	mg/L	0.050	96	90	110			
Potassium		0.0032	mg/L	0.50		0	0			
Sodium		0.028	mg/L	0.50		0	0			
Strontium		-0.00050	mg/L	0.10		0	0			
Silica		0.022	mg/L	0.016		0	0			
Method: E200.7								Batch: C_R132003		
Sample ID: MB-100426A		16 Method Blank				Run: SUB-C132003		04/26/10 12:18		
Silicon		ND	mg/L	0.06						
Aluminum		ND	mg/L	0.01						
Barium		ND	mg/L	0.0005						
Beryllium		ND	mg/L	0.0002						
Boron		ND	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.002						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Strontium		ND	mg/L	0.0002						
Sample ID: LFB-100426A		17 Laboratory Fortified Blank				Run: SUB-C132003		04/26/10 12:22		
Silicon		0.45	mg/L	0.0075	95	85	115			
Aluminum		0.90	mg/L	0.10	90	85	115			
Barium		0.92	mg/L	0.10	92	85	115			
Beryllium		0.90	mg/L	0.010	90	85	115			
Boron		0.93	mg/L	0.10	93	85	115			
Calcium		49	mg/L	0.50	97	85	115			
Chromium		0.92	mg/L	0.050	92	85	115			
Copper		0.91	mg/L	0.010	91	85	115			
Iron		0.94	mg/L	0.030	94	85	115			
Magnesium		49	mg/L	0.50	98	85	115			
Manganese		0.89	mg/L	0.010	89	85	115			
Molybdenum		0.93	mg/L	0.10	93	85	115			
Nickel		0.93	mg/L	0.050	93	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: C_R132003										
Sample ID: LFB-100426A	17	Laboratory Fortified Blank			Run: SUB-C132003			04/26/10 12:22		
Potassium		46	mg/L	0.50	92	85	115			
Sodium		47	mg/L	0.50	94	85	115			
Strontium		0.91	mg/L	0.10	91	85	115			
Silica		0.96	mg/L	0.016	96	85	125			
Sample ID: C10040844-006BMS2	16	Sample Matrix Spike			Run: SUB-C132003			04/26/10 20:20		
Aluminum		2.03	mg/L	0.10	99	70	130			
Barium		2.00	mg/L	0.10	96	70	130			
Beryllium		1.91	mg/L	0.010	94	70	130			
Boron		2.03	mg/L	0.10	97	70	130			
Chromium		1.92	mg/L	0.050	94	70	130			
Copper		1.95	mg/L	0.010	96	70	130			
Iron		4.43	mg/L	0.030	93	70	130			
Manganese		2.28	mg/L	0.010	92	70	130			
Molybdenum		1.91	mg/L	0.10	94	70	130			
Nickel		1.88	mg/L	0.050	92	70	130			
Silicon		9.58	mg/L	0.10		70	130			A
Strontium		3.27	mg/L	0.10	94	70	130			
Calcium		205	mg/L	1.0	93	70	130			
Magnesium		114	mg/L	1.0	91	70	130			
Potassium		102	mg/L	1.0	91	70	130			
Sodium		123	mg/L	1.0	95	70	130			
Sample ID: C10040844-006BMS2	16	Sample Matrix Spike Duplicate			Run: SUB-C132003			04/26/10 20:24		
Aluminum		2.05	mg/L	0.10	100	70	130	1.1	20	
Barium		1.99	mg/L	0.10	95	70	130	0.8	20	
Beryllium		1.92	mg/L	0.010	94	70	130	0.9	20	
Boron		2.05	mg/L	0.10	98	70	130	0.8	20	
Chromium		1.93	mg/L	0.050	95	70	130	0.4	20	
Copper		1.95	mg/L	0.010	96	70	130	0.1	20	
Iron		4.48	mg/L	0.030	95	70	130	1.1	20	
Manganese		2.28	mg/L	0.010	92	70	130	0.1	20	
Molybdenum		1.94	mg/L	0.10	95	70	130	1.4	20	
Nickel		1.90	mg/L	0.050	93	70	130	1.1	20	
Silicon		9.63	mg/L	0.10		70	130	0.5	20	A
Strontium		3.32	mg/L	0.10	96	70	130	1.3	20	
Calcium		208	mg/L	1.0	95	70	130	1.2	20	
Magnesium		117	mg/L	1.0	94	70	130	2.5	20	
Potassium		103	mg/L	1.0	92	70	130	1.3	20	
Sodium		125	mg/L	1.0	97	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 06/15/10
Work Order: R10040303

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: SUB-C132016		
Sample ID: ICV		10 Initial Calibration Verification Standard							04/26/10 14:21	
Antimony		0.0488	mg/L	0.0010	98	90	110			
Arsenic		0.0480	mg/L	0.0010	96	90	110			
Cadmium		0.0497	mg/L	0.0010	99	90	110			
Lead		0.0493	mg/L	0.0010	99	90	110			
Mercury		0.00516	mg/L	0.0010	103	90	110			
Selenium		0.247	mg/L	0.0014	99	90	110			
Silver		0.0518	mg/L	0.0010	104	90	110			
Thallium		0.0480	mg/L	0.0010	96	90	110			
Uranium		0.0481	mg/L	0.00030	96	90	110			
Vanadium		0.0497	mg/L	0.0010	99	90	110			
Sample ID: ICSA		10 Interference Check Sample A							04/26/10 14:28	
Antimony		0.000619	mg/L	0.0010		0	0			
Arsenic		0.000117	mg/L	0.0010		0	0			
Cadmium		2.80E-06	mg/L	0.0010		0	0			
Lead		5.01E-05	mg/L	0.0010		0	0			
Mercury		6.10E-05	mg/L	0.0010		0	0			
Selenium		0.000209	mg/L	0.0014		0	0			
Silver		0.000180	mg/L	0.0010		0	0			
Thallium		2.81E-05	mg/L	0.0010		0	0			
Uranium		2.84E-05	mg/L	0.00030		0	0			
Vanadium		2.45E-05	mg/L	0.0010		0	0			
Sample ID: ICSAB		10 Interference Check Sample AB							04/26/10 14:35	
Antimony		0.000157	mg/L	0.0010		0	0			
Arsenic		0.0111	mg/L	0.0010	111	70	130			
Cadmium		0.0109	mg/L	0.0010	109	70	130			
Lead		2.62E-05	mg/L	0.0010		0	0			
Mercury		4.01E-05	mg/L	0.0010		0	0			
Selenium		3.50E-06	mg/L	0.0014		0	0			
Silver		0.0106	mg/L	0.0010	106	70	130			
Thallium		1.78E-05	mg/L	0.0010		0	0			
Uranium		1.05E-05	mg/L	0.00030		0	0			
Vanadium		-0.000133	mg/L	0.0010		0	0			
Method: E200.8								Batch: C_R132016		
Sample ID: LRB		10 Method Blank				Run: SUB-C132016		04/26/10 15:09		
Antimony		0.0001	mg/L	0.0001						
Arsenic		ND	mg/L	0.0003						
Cadmium		ND	mg/L	6E-05						
Lead		ND	mg/L	2E-05						
Mercury		ND	mg/L	4E-05						
Selenium		ND	mg/L	0.001						
Silver		0.0001	mg/L	2E-05						
Thallium		ND	mg/L	3E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT - Provide as much information as possible.

Company Name:

Scott Env.

Project Name, PWS, Permit, Etc.

Powerful Design Period

Sample Origin

State:

EPA/State Compliance:
 Yes No

Report Mail Address:

Powerful

Contact Name:

Allen Spt 673-4444

Phone/Fax:

Email:

Sampler: (Please Print)

Invoice Address:

Powerful

Invoice Contact & Phone:

Purchase Order:

Quote/Bottle Order:

Special Report/Formats - ELL must be notified prior to sample submittal for the following:

- DW
- GSA
- POTW/WWTP
- State: _____
- Other: _____
- A2LA
- EDD/EDT (Electronic Data)
- Format: _____
- LEVEL IV
- NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)

Collection Date

Collection Time

MATRIX

Number of Containers

Sample Type: A W S V B O
 Air Water Soils/Solids
 Vegetation Bioassay Other

ANALYSIS REQUESTED

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:

Shipped by:

Cooler (Id):

Receipt Temp
3.6 °C

On Ice: Yes No

Custody Seal: Y N

Bottle/Coat: B C

Signature Match: Y N

Signature: *Allen Spt*

Signature: *Steve Froiland*

Signature: *Steve Froiland*

1	2	3	4	5	6	7	8	9	10
<i>DP-09-21-1</i>	<i>4-21-10</i>								
<i>DP-09-21-2</i>	<i>4-21-10</i>								

Signature: *Allen Spt*

Signature: *Steve Froiland*

Signature: *Steve Froiland*

Date/Time: *4-22-10 7:40*

Date/Time: *4-22-10 8:00*

Date/Time: _____

Date/Time: _____

Date/Time: _____

Date/Time: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

September 10, 2010

Mark Hollenbeck
Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10050253

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 5/18/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10050253-001	DB-09-21-01	05/17/10 0:00	05/18/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10050253-002	DB-09-21-02	05/17/10 0:00	05/18/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2010.09.10 10:33:22 -06:00



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10050253

Revised Date: 09/10/10

Report Date: 06/29/10

CASE NARRATIVE

Tests Associated with Analyst identified as ELI-CA were subcontracted to Energy Laboratories Casper Branch, EPA Number WY00002.

Tests Associated with Analyst identified as ELI-B were subcontracted to Energy Laboratories Billings Branch, EPA Number MT00005.

Comments imported for SUBBED Workorder: C10050710

RA226 ANALYSIS

The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes

PB210 ANALYSIS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

TH230 ANALYSIS

The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

End of comments imported for SUBBED Workorder: C10050710

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

This report is being re-issued due to a change in the report that was made following the original issuance of the report. The reason for this re-issuance is due to the following.

- The Gross Gamma was re-reported

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10050253-001
Client Sample ID: DB-09-21-01

Revised Date: 09/10/10
Report Date: 06/29/10
Collection Date: 05/17/10
Date Received: 05/18/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
MAJOR IONS								
Alkalinity, Total as CaCO3	130	mg/L		5		1	A2320 B	05/27/10 11:00/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/10 11:00/mb
Bicarbonate as HCO3	158	mg/L		5		1	A2320 B	05/27/10 11:00/mb
Calcium	81	mg/L	D	1		5	E200.7	05/25/10 14:33/eli-c
Chloride	8	mg/L		5		1	E300.0	05/22/10 12:17/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/19/10 01:35/jmh
Magnesium	29.4	mg/L		0.5		5	E200.7	05/25/10 14:33/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	06/02/10 13:55/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/19/10 01:35/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/19/10 01:35/jmh
Potassium	11.7	mg/L		0.5		5	E200.7	05/25/10 14:33/eli-c
Sodium	166	mg/L	D	1		5	E200.7	05/25/10 14:33/eli-c
Sulfate	542	mg/L		1		20	E300.0	05/19/10 01:18/jmh
Silica	7.5	mg/L		0.2		1	E200.8	05/24/10 23:15/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1300	umhos/cm	B	5.0		1	A2510 B	05/20/10 17:14/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	05/24/10 17:30/jmh
pH	7.91	s.u.		0.01		1	A4500-H B	05/20/10 16:29/tb
Sodium Adsorption Ratio (SAR)	4.0	unitless		0.10		1	Calculation	06/28/10 17:08/ADM
Solids, Total Dissolved TDS @ 180 C	840	mg/L		5		1	A2540 C	05/24/10 16:41/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	05/24/10 23:15/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/24/10 23:15/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/24/10 23:15/eli-c
Boron	ND	mg/L		0.1		1	E200.8	05/24/10 23:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/24/10 23:15/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/24/10 23:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/24/10 23:15/eli-c
Iron	ND	mg/L		0.03		1	E200.8	05/24/10 23:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/24/10 23:15/eli-c
Manganese	0.03	mg/L		0.01		1	E200.8	05/24/10 23:15/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/24/10 23:15/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	05/24/10 23:15/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/24/10 23:15/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	05/26/10 18:13/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	05/24/10 23:15/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/24/10 23:15/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10050253-001
Client Sample ID: DB-09-21-01

Revised Date: 09/10/10
Report Date: 06/29/10
Collection Date: 05/17/10
Date Received: 05/18/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	05/24/10 23:15/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	05/24/10 23:15/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	05/24/10 23:15/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	06/02/10 08:37/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	05/26/10 16:34/eli-ca
Selenium-VI	ND	mg/L		0.001		1 A3114 B	05/26/10 18:41/eli-ca
RADIONUCLIDES - DISSOLVED							
Gross Alpha	3.9	pCi/L	U			1 E900.0	05/29/10 13:27/eli-ca
Gross Alpha precision (±)	3.3	pCi/L				1 E900.0	05/29/10 13:27/eli-ca
Gross Alpha MDC	5.2	pCi/L				1 E900.0	05/29/10 13:27/eli-ca
Gross Beta	8.4	pCi/L				1 E900.0	05/29/10 13:27/eli-ca
Gross Beta precision (±)	2.4	pCi/L				1 E900.0	05/29/10 13:27/eli-ca
Gross Beta MDC	3.7	pCi/L				1 E900.0	05/29/10 13:27/eli-ca
Lead 210	0.02	pCi/L	U			1 E909.0M	06/11/10 15:59/eli-c
Lead 210 precision (±)	1.7	pCi/L				1 E909.0M	06/11/10 15:59/eli-c
Lead 210 MDC	2.9	pCi/L				1 E909.0M	06/11/10 15:59/eli-c
Polonium 210	-0.060	pCi/L	U			1 E912.0	06/07/10 08:47/eli-ca
Polonium 210 MDC	1.1	pCi/L				1 E912.0	06/07/10 08:47/eli-ca
Polonium 210 precision (±)	0.40	pCi/L				1 E912.0	06/07/10 08:47/eli-ca
Radium 226	1.6	pCi/L				1 E903.0	06/02/10 12:29/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	06/02/10 12:29/eli-ca
Radium 226 MDC	0.2	pCi/L				1 E903.0	06/02/10 12:29/eli-ca
Thorium 230	0.03	pCi/L	U			1 E907.0	05/27/10 08:45/eli-c
Thorium 230 MDC	0.1	pCi/L				1 E907.0	05/27/10 08:45/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1 E907.0	05/27/10 08:45/eli-c
Gross Gamma	420	pCi/L				1 E901.1	05/27/10 06:15/eli-c
Gross Gamma precision (±)	110	pCi/L				1 E901.1	05/27/10 06:15/eli-c
- See Case Narrative regarding Pb210 analysis.							
RADIONUCLIDES - SUSPENDED							
Lead 210	-0.3	pCi/L	U			1 E909.0M	06/13/10 16:36/eli-c
Lead 210 precision (±)	3.6	pCi/L				1 E909.0M	06/13/10 16:36/eli-c
Lead 210 MDC	6.1	pCi/L				1 E909.0M	06/13/10 16:36/eli-c
Polonium 210	0.077	pCi/L	U			1 E912.0	06/07/10 08:49/eli-ca
Polonium 210 precision (±)	0.31	pCi/L				1 E912.0	06/07/10 08:49/eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10050253-001
Client Sample ID: DB-09-21-01

Revised Date: 09/10/10
Report Date: 06/29/10
Collection Date: 05/17/10
Date Received: 05/18/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Polonium 210 MDC	0.62	pCi/L				1 E912.0	06/07/10 08:49/eli-ca
Radium 226	0.3	pCi/L	U			1 E903.0	06/18/10 08:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	06/18/10 08:33/eli-c
Radium 226 MDC	0.3	pCi/L				1 E903.0	06/18/10 08:33/eli-c
Thorium 230	-0.4	pCi/L	U			1 E907.0	06/04/10 10:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	06/04/10 10:06/eli-c
- See Case Narrative regarding Pb210 analysis.							
- See Case Narrative regarding Ra226 analysis.							
- See Case Narrative regarding Th230 analysis.							
RADIONUCLIDES - TOTAL							
Radon 222	157	pCi/L		100		1 D5072-92	05/19/10 00:00/lkl
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	06/14/10 18:45/eli-c
Arsenic	0.001	mg/L		0.001		1 E200.8	05/24/10 16:30/eli-c
Barium	ND	mg/L		0.1		1 E200.8	05/24/10 16:30/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	05/24/10 16:30/eli-c
Boron	ND	mg/L		0.1		1 E200.8	05/24/10 16:30/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	05/24/10 16:30/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	05/24/10 16:30/eli-c
Copper	ND	mg/L		0.01		1 E200.8	05/24/10 16:30/eli-c
Iron	0.22	mg/L		0.03		1 E200.8	05/24/10 16:30/eli-c
Lead	ND	mg/L		0.001		1 E200.8	05/24/10 16:30/eli-c
Manganese	0.03	mg/L		0.01		1 E200.8	05/24/10 16:30/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	05/26/10 13:24/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	05/24/10 16:30/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	05/24/10 16:30/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	05/24/10 16:30/eli-c
Silver	ND	mg/L		0.005		1 E200.8	05/24/10 16:30/eli-c
Strontium	2.4	mg/L		0.1		1 E200.8	05/24/10 16:30/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	05/24/10 16:30/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	05/24/10 16:30/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	05/24/10 16:30/eli-c
DATA QUALITY							
A/C Balance (± 5)	-0.470	%				1 A1030 E	06/29/10 00:00/lkl
Anions	14.1	meq/L				1 A1030 E	06/29/10 00:00/lkl
Cations	14.0	meq/L				1 A1030 E	06/29/10 00:00/lkl
Solids, Total Dissolved Calculated	937	mg/L				1 A1030 E	06/29/10 00:00/lkl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10050253-001
Client Sample ID: DB-09-21-01

Revised Date: 09/10/10
Report Date: 06/29/10
Collection Date: 05/17/10
Date Received: 05/18/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		DF	Method	Analysis Date / By
					QCL				
DATA QUALITY									
TDS Balance (0.80 - 1.20)	0.900						1	A1030 E	06/29/10 00:00/kl

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10050253-002
Client Sample ID: DB-09-21-02

Revised Date: 09/10/10
Report Date: 06/29/10
Collection Date: 05/17/10
Date Received: 05/18/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
MAJOR IONS								
Alkalinity, Total as CaCO3	200	mg/L		5		1	A2320 B	05/27/10 11:08/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	05/27/10 11:08/mb
Bicarbonate as HCO3	244	mg/L		5		1	A2320 B	05/27/10 11:08/mb
Calcium	168	mg/L	D	1		5	E200.7	05/25/10 14:37/eli-c
Chloride	10	mg/L		5		1	E300.0	05/22/10 12:35/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/19/10 02:07/jmh
Magnesium	47.2	mg/L		0.5		5	E200.7	05/25/10 14:37/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/02/10 13:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/19/10 02:07/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	05/19/10 02:07/jmh
Potassium	11.7	mg/L		0.5		5	E200.7	05/25/10 14:37/eli-c
Sodium	130	mg/L	D	1		5	E200.7	05/25/10 14:37/eli-c
Sulfate	694	mg/L		1		20	E300.0	05/19/10 01:51/jmh
Silica	6.7	mg/L		0.2		1	E200.8	05/24/10 23:21/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1520	umhos/cm	B	5.0		1	A2510 B	05/20/10 17:15/tb
Oxidation-Reduction Potential	260	mV				1	A2580 B	05/24/10 17:30/jmh
pH	7.47	s.u.		0.01		1	A4500-H B	05/20/10 16:32/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation	06/28/10 17:08/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C	05/24/10 16:43/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	05/24/10 23:21/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/24/10 23:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/24/10 23:21/eli-c
Boron	ND	mg/L		0.1		1	E200.8	05/24/10 23:21/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/24/10 23:21/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	05/24/10 23:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/24/10 23:21/eli-c
Iron	ND	mg/L		0.03		1	E200.8	05/24/10 23:21/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/24/10 23:21/eli-c
Manganese	0.54	mg/L		0.01		1	E200.8	05/24/10 23:21/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/24/10 23:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	05/24/10 23:21/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/24/10 23:21/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	05/26/10 18:20/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	05/24/10 23:21/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/24/10 23:21/eli-c

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
QCL - Quality control limit. ND - Not detected at the reporting limit.
B - The analyte was detected in the method blank. D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10050253-002
Client Sample ID: DB-09-21-02

Revised Date: 09/10/10
Report Date: 06/29/10
Collection Date: 05/17/10
Date Received: 05/18/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0086	mg/L		0.0003		1	E200.8	05/24/10 23:21/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	05/24/10 23:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/24/10 23:21/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/02/10 08:42/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	05/26/10 16:41/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	05/27/10 10:48/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	40.1	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Alpha precision (±)	6.3	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Alpha MDC	6.7	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Beta	25.7	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Beta precision (±)	3.3	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Gross Beta MDC	4.7	pCi/L				1	E900.0	05/29/10 13:27/eli-ca
Lead 210	2.2	pCi/L	U			1	E909.0M	06/11/10 18:01/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	06/11/10 18:01/eli-c
Lead 210 MDC	2.9	pCi/L				1	E909.0M	06/11/10 18:01/eli-c
Polonium 210	-0.060	pCi/L	U			1	E912.0	06/07/10 08:47/eli-ca
Polonium 210 MDC	1.1	pCi/L				1	E912.0	06/07/10 08:47/eli-ca
Polonium 210 precision (±)	0.39	pCi/L				1	E912.0	06/07/10 08:47/eli-ca
Radium 226	1.9	pCi/L				1	E903.0	06/02/10 12:29/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	06/02/10 12:29/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	06/02/10 12:29/eli-ca
Thorium 230	0.006	pCi/L	U			1	E907.0	05/27/10 08:45/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	05/27/10 08:45/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	05/27/10 08:45/eli-c
Gross Gamma	ND	pCi/L		20		1	E901.1	05/27/10 06:15/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	05/27/10 06:15/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-1	pCi/L	U			1	E909.0M	06/13/10 18:37/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	06/13/10 18:37/eli-c
Lead 210 MDC	6.1	pCi/L				1	E909.0M	06/13/10 18:37/eli-c
Polonium 210	0.061	pCi/L	U			1	E912.0	06/07/10 08:49/eli-ca
Polonium 210 precision (±)	0.37	pCi/L				1	E912.0	06/07/10 08:49/eli-ca

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10050253-002
Client Sample ID: DB-09-21-02

Revised Date: 09/10/10
Report Date: 06/29/10
Collection Date: 05/17/10
Date Received: 05/18/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Polonium 210 MDC	0.80	pCi/L					1	E912.0	06/07/10 08:49/eli-ca
Radium 226	0.6	pCi/L					1	E903.0	06/18/10 08:33/eli-c
Radium 226 precision (±)	0.3	pCi/L					1	E903.0	06/18/10 08:33/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	06/18/10 08:33/eli-c
Thorium 230	-0.1	pCi/L	U				1	E907.0	06/04/10 10:06/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	06/04/10 10:06/eli-c
- See Case Narrative regarding Pb210 analysis.									
- See Case Narrative regarding Th230 analysis.									
RADIONUCLIDES - TOTAL									
Radon 222	303	pCi/L		100			1	D5072-92	05/19/10 00:00/kl
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	06/03/10 13:29/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	05/25/10 09:15/eli-c
Barium	ND	mg/L		0.1			1	E200.8	05/25/10 09:15/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	05/25/10 09:15/eli-c
Boron	ND	mg/L		0.1			1	E200.8	05/25/10 09:15/eli-c
Cadmium	ND	mg/L		0.005			1	E200.8	05/25/10 09:15/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	05/25/10 09:15/eli-c
Copper	ND	mg/L		0.01			1	E200.8	05/25/10 09:15/eli-c
Iron	ND	mg/L		0.03			1	E200.8	05/25/10 09:15/eli-c
Lead	ND	mg/L		0.001			1	E200.8	05/25/10 09:15/eli-c
Manganese	0.55	mg/L		0.01			1	E200.8	05/25/10 09:15/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	05/26/10 13:26/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.8	05/25/10 09:15/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	05/25/10 09:15/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	05/25/10 09:15/eli-c
Silver	ND	mg/L		0.005			1	E200.8	06/03/10 01:15/eli-c
Strontium	2.3	mg/L		0.1			1	E200.8	05/25/10 09:15/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	05/25/10 09:15/eli-c
Uranium	0.0088	mg/L		0.0003			1	E200.8	05/25/10 09:15/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	05/25/10 09:15/eli-c
DATA QUALITY									
A/C Balance (± 5)	-1.36	%					1	A1030 E	06/29/10 00:00/kl
Anions	18.8	meq/L					1	A1030 E	06/29/10 00:00/kl
Cations	18.3	meq/L					1	A1030 E	06/29/10 00:00/kl
Solids, Total Dissolved Calculated	1200	mg/L					1	A1030 E	06/29/10 00:00/kl
TDS Balance (0.80 - 1.20)	0.930						1	A1030 E	06/29/10 00:00/kl

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

Report Definitions:
 MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 100527A-ALK-SEL-W		
Sample ID: LCS1_100527A	Laboratory Control Sample						Run: PH_COND1-R_100527A		05/27/10 10:12	
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110				
Sample ID: MBLK1_100527A	Method Blank						Run: PH_COND1-R_100527A		05/27/10 10:17	
Alkalinity, Total as CaCO3	ND	mg/L	3							
Sample ID: R10050253-001AMS	Sample Matrix Spike						Run: PH_COND1-R_100527A		05/27/10 11:03	
Alkalinity, Total as CaCO3	230	mg/L	5.0	94	80	120				
Sample ID: R10050253-001AMSD	Sample Matrix Spike Duplicate						Run: PH_COND1-R_100527A		05/27/10 11:06	
Alkalinity, Total as CaCO3	232	mg/L	5.0	96	80	120	0.9	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Batch: 100520_1_COND-PROBE-W		
Sample ID: LCS1-1_100520		Laboratory Control Sample				Run: PH_COND2-R_100520B			05/20/10 16:50	
Conductivity @ 25 C		148	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_100520		Laboratory Control Sample				Run: PH_COND2-R_100520B			05/20/10 16:52	
Conductivity @ 25 C		4980	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_100520		Method Blank				Run: PH_COND2-R_100520B			05/20/10 16:56	
Conductivity @ 25 C		400	umhos/cm	5						
Sample ID: LCS_COND-1_100520		Laboratory Control Sample				Run: PH_COND2-R_100520B			05/20/10 17:01	
Conductivity @ 25 C		1420	umhos/cm	5.0	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 100524A-SLDS-TDS-W		
Sample ID: LCS1_100524A Laboratory Control Sample Run: BAL-4-R_100524B 05/24/10 16:34										
Solids, Total Dissolved TDS @ 180 C		200	mg/L	10	98	90	110			
Sample ID: MBLK1_100524A Method Blank Run: BAL-4-R_100524B 05/24/10 16:34										
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	5						
Sample ID: R10050253-001ADUP Sample Duplicate Run: BAL-4-R_100524B 05/24/10 16:42										
Solids, Total Dissolved TDS @ 180 C		840	mg/L	10						5
Sample ID: R10050253-002AMS Sample Matrix Spike Run: BAL-4-R_100524B 05/24/10 16:45										
Solids, Total Dissolved TDS @ 180 C		2100	mg/L	10	97	90	110			

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 100524-ORP-ISE-W		
Sample ID: LCS		Laboratory Control Sample			Run: PH_COND1-R_100524A			05/24/10 17:30		
Oxidation-Reduction Potential		470	mV		99	95	105			
Sample ID: R10050253-001F		Sample Duplicate			Run: PH_COND1-R_100524A			05/24/10 17:30		
Oxidation-Reduction Potential		250	mV					1.4	10	

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QA/QC Summary Report

Revised Date: 09/10/10
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Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: C_26210
Sample ID: MB-26210		Method Blank					Run: SUB-C133182			05/26/10 16:27
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LCS-26210		Laboratory Control Sample					Run: SUB-C133182			05/26/10 16:30
Selenium-IV		0.049	mg/L	0.0010	98	90	110			
Sample ID: R10050253-001E		Sample Matrix Spike					Run: SUB-C133182			05/26/10 16:36
Selenium-IV		0.047	mg/L	0.0010	94	85	115			
Sample ID: R10050253-001E		Sample Matrix Spike Duplicate					Run: SUB-C133182			05/26/10 16:39
Selenium-IV		0.046	mg/L	0.0010	92	85	115	1.3	10	
Method: A3114 B										Batch: C_26210
Sample ID: MB-26210		Method Blank					Run: SUB-C133188			05/26/10 18:06
Selenium		ND	mg/L	0.0002						
Sample ID: LCS-26210		Laboratory Control Sample					Run: SUB-C133188			05/26/10 18:08
Selenium		0.052	mg/L	0.0010	104	90	110			
Sample ID: R10050253-001E		Sample Matrix Spike					Run: SUB-C133188			05/26/10 18:15
Selenium		0.052	mg/L	0.0010	104	85	115			
Sample ID: R10050253-001E		Sample Matrix Spike Duplicate					Run: SUB-C133188			05/26/10 18:18
Selenium		0.052	mg/L	0.0010	104	85	115	0.2	15	

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 100520_1_PH-W		
Sample ID: LCS_pH-1_100520	Laboratory Control Sample					Run: PH_COND2-R_100520A		05/20/10 16:21		
pH		7.43	s.u.	0.010	100	98.55	101.45			
Sample ID: R10050237-003BDUP	Sample Duplicate					Run: PH_COND2-R_100520A		05/20/10 16:27		
pH		8.87	s.u.	0.010				0	1.25	

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QA/QC Summary Report

Revised Date: 09/10/10

Client: Powertech USA Inc

Report Date: 06/29/10

Project: Dewey Groundwater Sampling

Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2010-06-02_2_NH3_01		
Sample ID: MBLK-2	Method Blank							Run: TECHAA2-R_100602A	06/02/10 12:12	
Nitrogen, Ammonia as N		0.03	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank							Run: TECHAA2-R_100602A	06/02/10 12:13	
Nitrogen, Ammonia as N		0.27	mg/L	0.10	96	90	110			
Sample ID: R10050253-001BMS	Sample Matrix Spike							Run: TECHAA2-R_100602A	06/02/10 13:56	
Nitrogen, Ammonia as N		0.40	mg/L	0.10	96	80	120			
Sample ID: R10050253-001BMSD	Sample Matrix Spike Duplicate							Run: TECHAA2-R_100602A	06/02/10 13:57	
Nitrogen, Ammonia as N		0.38	mg/L	0.10	90	80	120	3.6	10	

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: C_R133131										
Sample ID: MB-100525A	4	Method Blank					Run: SUB-C133131			05/25/10 12:44
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100525A	4	Laboratory Fortified Blank					Run: SUB-C133131			05/25/10 12:48
Calcium		50	mg/L	0.50	100	85	115			
Magnesium		50	mg/L	0.50	99	85	115			
Potassium		49	mg/L	0.82	97	85	115			
Sodium		47	mg/L	0.50	94	85	115			
Sample ID: C10040979-001BMS2	4	Sample Matrix Spike					Run: SUB-C133131			05/25/10 13:44
Calcium		110	mg/L	1.0	96	70	130			
Magnesium		111	mg/L	1.0	94	70	130			
Potassium		96.1	mg/L	1.0	90	70	130			
Sodium		260	mg/L	1.0	99	70	130			
Sample ID: C10040979-001BMSD2	4	Sample Matrix Spike Duplicate					Run: SUB-C133131			05/25/10 13:49
Calcium		113	mg/L	1.0	99	70	130	2.2	20	
Magnesium		116	mg/L	1.0	99	70	130	4.5	20	
Potassium		98.6	mg/L	1.0	93	70	130	2.5	20	
Sodium		264	mg/L	1.0	103	70	130	1.6	20	

Qualifiers:

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QA/QC Summary Report

Revised Date: 09/10/10

Client: Powertech USA Inc

Report Date: 06/29/10

Project: Dewey Groundwater Sampling

Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R133067A
Sample ID: R10050253-002D	23	Post Digestion Spike			Run: SUB-C133067				05/24/10 16:44	
Aluminum		0.0527	mg/L	0.10	58	70	130			S
Arsenic		0.0535	mg/L	0.0010	104	70	130			
Barium		0.0626	mg/L	0.0010	103	70	130			
Beryllium		0.0430	mg/L	0.010	86	70	130			
Boron		0.108	mg/L	0.10	90	70	130			
Cadmium		0.0498	mg/L	0.010	100	70	130			
Chromium		0.0488	mg/L	0.0010	97	70	130			
Copper		0.0458	mg/L	0.010	91	70	130			
Iron		1.24	mg/L	0.030	97	70	130			
Lead		0.0517	mg/L	0.050	103	70	130			
Manganese		0.589	mg/L	0.010		70	130			A
Mercury		0.00537	mg/L	0.0010	107	70	130			
Molybdenum		0.0475	mg/L	0.0010	95	70	130			
Nickel		0.0468	mg/L	0.0010	93	70	130			
Selenium		0.0549	mg/L	0.0010	110	70	130			
Silicon		3.24	mg/L	0.10		70	130			A
Silver		0.0139	mg/L	0.010	70	70	130			
Strontium		2.28	mg/L	0.10		70	130			A
Thallium		0.0525	mg/L	0.0010	104	70	130			
Thorium 232		0.0539	mg/L	0.0010	107	70	130			
Uranium		0.0626	mg/L	0.00030	108	70	130			
Vanadium		0.0500	mg/L	0.0010	99	70	130			
Zinc		0.0521	mg/L	0.010	97	70	130			
Sample ID: R10050253-002D	23	Post Digestion Spike Duplicate			Run: SUB-C133067				05/24/10 16:50	
Aluminum		0.0519	mg/L	0.10	56	70	130		20	S
Arsenic		0.0523	mg/L	0.0010	102	70	130	2.4	20	
Barium		0.0602	mg/L	0.0010	98	70	130	3.9	20	
Beryllium		0.0438	mg/L	0.010	87	70	130	1.7	20	
Boron		0.111	mg/L	0.10	97	70	130	2.9	20	
Cadmium		0.0484	mg/L	0.010	97	70	130	2.9	20	
Chromium		0.0460	mg/L	0.0010	92	70	130	5.9	20	
Copper		0.0449	mg/L	0.010	90	70	130	2	20	
Iron		1.27	mg/L	0.030	99	70	130	2.4	20	
Lead		0.0510	mg/L	0.050	102	70	130	1.5	20	
Manganese		0.596	mg/L	0.010		70	130	1	20	A
Mercury		0.00523	mg/L	0.0010	105	70	130	2.7	20	
Molybdenum		0.0460	mg/L	0.0010	92	70	130	3.2	20	
Nickel		0.0448	mg/L	0.0010	89	70	130	4.5	20	
Selenium		0.0570	mg/L	0.0010	114	70	130	3.7	20	
Silicon		3.36	mg/L	0.10		70	130	3.9	20	A
Silver		0.0120	mg/L	0.010	60	70	130	15	20	S
Strontium		2.18	mg/L	0.10		70	130	4.7	20	A
Thallium		0.0516	mg/L	0.0010	102	70	130	1.7	20	

Qualifiers:

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A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: C_R133067A										
Sample ID: R10050253-002D	23	Post Digestion Spike Duplicate					Run: SUB-C133067			05/24/10 16:50
Thorium 232		0.0529	mg/L	0.0010	105	70	130	1.9	20	
Uranium		0.0626	mg/L	0.00030	108	70	130	0	20	
Vanadium		0.0470	mg/L	0.0010	93	70	130	6.2	20	
Zinc		0.0519	mg/L	0.010	97	70	130	0.5	20	
Sample ID: C10050737-004BMS4	23	Post Digestion Spike					Run: SUB-C133067			05/25/10 00:17
Aluminum		0.0456	mg/L	0.0010	91	70	130			
Arsenic		0.0515	mg/L	0.0010	103	70	130			
Barium		0.131	mg/L	0.10	87	70	130			
Beryllium		0.0454	mg/L	0.010	91	70	130			
Boron		0.0863	mg/L	0.0010	86	70	130			
Cadmium		0.0476	mg/L	0.010	95	70	130			
Chromium		0.0486	mg/L	0.0010	97	70	130			
Copper		0.0499	mg/L	0.010	96	70	130			
Iron		1.20	mg/L	0.030	96	70	130			
Lead		0.0491	mg/L	0.0010	98	70	130			
Manganese		0.0479	mg/L	0.010	95	70	130			
Mercury		0.00490	mg/L	0.0010	98	70	130			
Molybdenum		0.0842	mg/L	0.0010	92	70	130			
Nickel		0.0494	mg/L	0.0010	95	70	130			
Selenium		0.0516	mg/L	0.0010	102	70	130			
Silicon		5.51	mg/L	0.10		70	130			A
Silver		0.0120	mg/L	0.010	60	70	130			S
Strontium		0.642	mg/L	0.10		70	130			A
Thallium		0.0497	mg/L	0.0010	99	70	130			
Thorium 232		0.0496	mg/L	0.0010	99	70	130			
Uranium		2.47	mg/L	0.00030		70	130			A
Vanadium		0.0498	mg/L	0.0010	99	70	130			
Zinc		0.0654	mg/L	0.010	99	70	130			
Sample ID: C10050737-004BMSD4	23	Post Digestion Spike Duplicate					Run: SUB-C133067			05/25/10 00:23
Aluminum		0.0460	mg/L	0.0010	92	70	130	0.9	20	
Arsenic		0.0521	mg/L	0.0010	104	70	130	1.1	20	
Barium		0.134	mg/L	0.10	94	70	130	2.6	20	
Beryllium		0.0467	mg/L	0.010	93	70	130	2.8	20	
Boron		0.0876	mg/L	0.0010	88	70	130	1.4	20	
Cadmium		0.0496	mg/L	0.010	99	70	130	4.2	20	
Chromium		0.0497	mg/L	0.0010	99	70	130	2.3	20	
Copper		0.0502	mg/L	0.010	97	70	130	0.5	20	
Iron		1.23	mg/L	0.030	98	70	130	2.8	20	
Lead		0.0509	mg/L	0.0010	102	70	130	3.7	20	
Manganese		0.0501	mg/L	0.010	99	70	130	4.5	20	
Mercury		0.00509	mg/L	0.0010	102	70	130	3.8	20	
Molybdenum		0.0880	mg/L	0.0010	100	70	130	4.4	20	
Nickel		0.0500	mg/L	0.0010	97	70	130	1.2	20	

Qualifiers:

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ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Revised Date: 09/10/10

Client: Powertech USA Inc

Report Date: 06/29/10

Project: Dewey Groundwater Sampling

Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R133067A		
Sample ID: C10050737-004BMSD4				23 Post Digestion Spike Duplicate		Run: SUB-C133067			05/25/10 00:23	
Selenium		0.0527	mg/L	0.0010	104	70	130	2.1	20	
Silicon		5.44	mg/L	0.10		70	130	1.4	20	A
Silver		0.0125	mg/L	0.010	63	70	130	4.2	20	S
Strontium		0.654	mg/L	0.10		70	130	1.9	20	A
Thallium		0.0516	mg/L	0.0010	103	70	130	3.8	20	
Thorium 232		0.0518	mg/L	0.0010	104	70	130	4.3	20	
Uranium		2.52	mg/L	0.00030		70	130	2	20	A
Vanadium		0.0504	mg/L	0.0010	100	70	130	1.2	20	
Zinc		0.0646	mg/L	0.010	98	70	130	1.3	20	
Sample ID: LRB				23 Method Blank		Run: SUB-C133067			05/24/10 15:14	
Silicon		ND	mg/L	0.0005						
Aluminum		0.0006	mg/L	8E-05						
Arsenic		ND	mg/L	4E-05						
Barium		ND	mg/L	3E-05						
Beryllium		ND	mg/L	3E-05						
Boron		-0.0005	mg/L							
Cadmium		ND	mg/L	7E-05						
Chromium		ND	mg/L	5E-05						
Copper		ND	mg/L	6E-05						
Iron		0.0002	mg/L	0.0001						
Lead		4E-05	mg/L	2E-05						
Manganese		3E-05	mg/L	2E-05						
Mercury		ND	mg/L	2E-05						
Molybdenum		0.0001	mg/L	8E-05						
Nickel		ND	mg/L	5E-05						
Selenium		ND	mg/L	5E-05						
Silver		ND	mg/L	8E-05						
Strontium		ND	mg/L	6E-05						
Thallium		ND	mg/L	2E-05						
Thorium 232		ND	mg/L	3E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Zinc		0.0005	mg/L	0.0001						
Sample ID: LFB				23 Laboratory Fortified Blank		Run: SUB-C133067			05/24/10 15:21	
Silicon		0.487	mg/L	0.0010	93	85	115			
Aluminum		0.0490	mg/L	0.0010	97	85	115			
Arsenic		0.0515	mg/L	0.0010	103	85	115			
Barium		0.0507	mg/L	0.0010	101	85	115			
Beryllium		0.0509	mg/L	0.0010	102	85	115			
Boron		0.0514	mg/L	0.0010	104	85	115			
Cadmium		0.0517	mg/L	0.0010	103	85	115			
Chromium		0.0510	mg/L	0.0010	102	85	115			
Copper		0.0524	mg/L	0.0010	105	85	115			

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S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R133067A		
Sample ID: LFB	23	Laboratory Fortified Blank		Run: SUB-C133067			05/24/10 15:21			
Iron		1.20	mg/L	0.0010	96	85	115			
Lead		0.0512	mg/L	0.0010	102	85	115			
Manganese		0.0512	mg/L	0.0010	102	85	115			
Mercury		0.00512	mg/L	0.0010	102	85	115			
Molybdenum		0.0501	mg/L	0.0010	100	85	115			
Nickel		0.0519	mg/L	0.0010	104	85	115			
Selenium		0.0524	mg/L	0.0010	105	85	115			
Silver		0.0200	mg/L	0.0010	100	85	115			
Strontium		0.0511	mg/L	0.0010	102	85	115			
Thallium		0.0515	mg/L	0.0010	103	85	115			
Thorium 232		0.0507	mg/L	0.0010	101	85	115			
Uranium		0.0502	mg/L	0.00030	100	85	115			
Vanadium		0.0506	mg/L	0.0010	101	85	115			
Zinc		0.0570	mg/L	0.0010	113	85	115			
Method: E200.8								Batch: C_26223		
Sample ID: MB-26223		Method Blank		Run: SUB-C133358			06/02/10 08:01			
Uranium		0.0001	mg/L	6E-05						
Sample ID: LCS2-26223		Laboratory Control Sample		Run: SUB-C133358			06/02/10 08:27			
Uranium		0.0999	mg/L	0.00030	100	85	115			
Sample ID: C10050737-005CMS4		Post Digestion Spike		Run: SUB-C133358			06/02/10 09:09			
Uranium		0.0559	mg/L	0.00030	109	70	130			
Sample ID: C10050737-005CMSD4		Post Digestion Spike Duplicate		Run: SUB-C133358			06/02/10 09:14			
Uranium		0.0562	mg/L	0.00030	110	70	130	0.5	20	
Method: E200.8								Batch: C_R133403A		
Sample ID: C10050908-003BMS4		Post Digestion Spike		Run: SUB-C133403			06/03/10 04:35			
Silver		0.0162	mg/L	0.010	81	70	130			
Sample ID: C10050908-003BMSD4		Post Digestion Spike Duplicate		Run: SUB-C133403			06/03/10 04:41			
Silver		0.0157	mg/L	0.010	78	70	130	3.4	20	
Sample ID: LRB		Method Blank		Run: SUB-C133403			06/02/10 15:00			
Silver		ND	mg/L	8E-05						
Sample ID: LFB		Laboratory Fortified Blank		Run: SUB-C133403			06/02/10 15:07			
Silver		0.0206	mg/L	0.0010	103	85	115			

Qualifiers:

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ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R133470		
Sample ID: LRB		Method Blank					Run: SUB-C133470		06/03/10 12:41	
Antimony		0.0001	mg/L	0.0001						
Sample ID: LFB		Laboratory Fortified Blank					Run: SUB-C133470		06/03/10 12:48	
Antimony		0.0530	mg/L	0.0010	106	85	115			
Sample ID: C10050684-001BMS4		Post Digestion Spike					Run: SUB-C133470		06/03/10 13:15	
Antimony		0.0560	mg/L	0.0010	112	70	130			
Sample ID: C10050684-001BMSD4		Post Digestion Spike Duplicate					Run: SUB-C133470		06/03/10 13:22	
Antimony		0.0561	mg/L	0.0010	112	70	130	0.3	20	
Method: E200.8								Batch: C_R133814		
Sample ID: LRB		Method Blank					Run: SUB-C133814		06/14/10 12:44	
Antimony		ND	mg/L	0.0001						
Sample ID: LFB		Laboratory Fortified Blank					Run: SUB-C133814		06/14/10 12:51	
Antimony		0.0509	mg/L	0.0010	102	85	115			
Sample ID: R10050253-001D		Post Digestion Spike					Run: SUB-C133814		06/14/10 18:52	
Antimony		0.0577	mg/L	0.050	115	70	130			
Sample ID: R10050253-001D		Post Digestion Spike Duplicate					Run: SUB-C133814		06/14/10 18:59	
Antimony		0.0577	mg/L	0.050	115	70	130	0	20	

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1								Analytical Run: SUB-B148233		
Sample ID: QCS		Initial Calibration Verification Standard						05/26/10 13:07		
Mercury		0.0019	mg/L	0.0010	97	90	110			
Method: E245.1								Batch: B_46506		
Sample ID: MB-46506		Method Blank						Run: SUB-B148233		
Mercury		ND	mg/L	5E-05						05/26/10 13:11
Sample ID: LCS-46506		Laboratory Control Sample						Run: SUB-B148233		
Mercury		0.0019	mg/L	0.0010	93	85	115			05/26/10 13:13
Sample ID: B10051125-001BMS		Sample Matrix Spike						Run: SUB-B148233		
Mercury		0.0019	mg/L	0.0010	96	70	130			05/26/10 13:16
Sample ID: B10051125-001BMSD		Sample Matrix Spike Duplicate						Run: SUB-B148233		
Mercury		0.0018	mg/L	0.0010	91	70	130	5.3	30	05/26/10 13:18

Qualifiers:

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MDC - Minimum detectable concentration



QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E300.0								Analytical Run: DIONEX_100518A			
Sample ID: CCV051810-22	4	Continuing Calibration Verification Standard						05/18/10 22:34			
Fluoride		7.20	mg/L	0.10	96	90	110				
Nitrogen, Nitrate as N		7.12	mg/L	0.10	95	90	110				
Nitrogen, Nitrite as N		7.44	mg/L	0.10	99	90	110				
Sulfate		75.6	mg/L	1.0	101	90	110				
Method: E300.0								Batch: R46049			
Sample ID: LFB051810-10	4	Laboratory Fortified Blank						Run: DIONEX_100518A 05/18/10 18:44			
Fluoride		4.61	mg/L	0.10	92	90	110				
Nitrogen, Nitrate as N		4.52	mg/L	0.10	90	90	110				
Nitrogen, Nitrite as N		5.38	mg/L	0.10	108	90	110				
Sulfate		45.9	mg/L	1.0	92	90	110				
Sample ID: R10050251-003AMS	4	Sample Matrix Spike						Run: DIONEX_100518A 05/18/10 23:23			
Fluoride		24.1	mg/L	0.10	91	90	110				
Nitrogen, Nitrate as N		65.4	mg/L	0.13	57	90	110			S	
Nitrogen, Nitrite as N		24.7	mg/L	0.29	99	90	110				
Sulfate		726	mg/L	1.0	57	90	110			S	
Sample ID: R10050251-003AMSD	4	Sample Matrix Spike Duplicate						Run: DIONEX_100518A 05/18/10 23:40			
Fluoride		24.7	mg/L	0.10	94	90	110	2.8	10		
Nitrogen, Nitrate as N		66.4	mg/L	0.13	61	90	110	1.5	10	S	
Nitrogen, Nitrite as N		25.3	mg/L	0.29	101	90	110	2.4	10		
Sulfate		737	mg/L	1.0	61	90	110	1.5	10	S	
Sample ID: R10050264-001CMS	4	Sample Matrix Spike						Run: DIONEX_100518A 05/19/10 03:13			
Fluoride		5.15	mg/L	0.10	93	90	110				
Nitrogen, Nitrate as N		4.92	mg/L	0.10	98	90	110				
Nitrogen, Nitrite as N		5.16	mg/L	0.10	103	90	110				
Sulfate		73.0	mg/L	1.0	98	90	110				
Sample ID: R10050264-001CMSD	4	Sample Matrix Spike Duplicate						Run: DIONEX_100518A 05/19/10 03:29			
Fluoride		5.13	mg/L	0.10	92	90	110	0.4	10		
Nitrogen, Nitrate as N		4.87	mg/L	0.10	97	90	110	1	10		
Nitrogen, Nitrite as N		5.10	mg/L	0.10	102	90	110	1.1	10		
Sulfate		72.5	mg/L	1.0	97	90	110	0.7	10		

Qualifiers:

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S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E300.0								Analytical Run: DIONEX_100521A			
Sample ID: CCV052110-46		Continuing Calibration Verification Standard						05/22/10 09:00			
Chloride		72.7	mg/L	5.0	97	90	110				
Method: E300.0								Batch: R46121			
Sample ID: LFB052110-10		Laboratory Fortified Blank				Run: DIONEX_100521A		05/21/10 20:46			
Chloride		22.5	mg/L	5.0	90	90	110				
Sample ID: R10050162-001BMS		Sample Matrix Spike				Run: DIONEX_100521A		05/22/10 09:54			
Chloride		1150	mg/L	5.4	79	90	110			S	
Sample ID: R10050162-001BMSD		Sample Matrix Spike Duplicate				Run: DIONEX_100521A		05/22/10 10:12			
Chloride		1160	mg/L	5.4	80	90	110	0.4	10	S	

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										
Batch: C_GrAB-0909										
Sample ID: MB-GrAB-0909	6	Method Blank					Run: SUB-C133323		05/28/10 03:36	
Gross Alpha		-1	pCi/L							U
Gross Alpha precision (±)		0.7	pCi/L							
Gross Alpha MDC		0.8	pCi/L							
Gross Beta		-3	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-0909		Laboratory Control Sample					Run: SUB-C133323		05/28/10 03:36	
Gross Alpha		94	pCi/L	93		70	130			
Sample ID: Cs137-GrAB-0909		Laboratory Control Sample					Run: SUB-C133323		05/28/10 03:36	
Gross Beta		87	pCi/L	100		70	130			
Sample ID: C10050458-009AMS		Sample Matrix Spike					Run: SUB-C133323		05/29/10 01:18	
Gross Alpha		120	pCi/L	119		70	130			
Sample ID: C10050458-009AMSD		Sample Matrix Spike Duplicate					Run: SUB-C133323		05/29/10 01:18	
Gross Alpha		120	pCi/L	113		70	130	5.1	20.1	
Sample ID: C10050458-009AMS		Sample Matrix Spike					Run: SUB-C133323		05/29/10 01:18	
Gross Beta		82	pCi/L	88		70	130			
Sample ID: C10050458-009AMSD		Sample Matrix Spike Duplicate					Run: SUB-C133323		05/29/10 01:18	
Gross Beta		86	pCi/L	92		70	130	4.5	16.4	
Sample ID: C10050705-001DDUP	6	Sample Duplicate					Run: SUB-C133323		05/29/10 01:18	
Gross Alpha		820	pCi/L					6.7	14.2	
Gross Alpha precision (±)		18	pCi/L							
Gross Alpha MDC		4.1	pCi/L							
Gross Beta		200	pCi/L					4	14	
Gross Beta precision (±)		3.9	pCi/L							
Gross Beta MDC		2.9	pCi/L							

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										
Batch: C_R133449										
Sample ID: LCS-R133449	3	Laboratory Control Sample					Run: SUB-C133449			05/27/10 06:15
Americium 241		690	pCi/L	20	85	70	130			
Cesium 137		990	pCi/L	20	97	70	130			
Potassium 40		6300	pCi/L	20	94	70	130			
Sample ID: MB-R133449	4	Method Blank					Run: SUB-C133449			05/27/10 06:15
Bismuth 214		ND	pCi/L							U
Lead 214		ND	pCi/L							U
Potassium 40		ND	pCi/L							U
Gross Gamma		ND	pCi/L							U
Sample ID: R10050253-002H	2	Sample Duplicate					Run: SUB-C133449			05/27/10 06:15
Bismuth 214		ND	pCi/L	20					30	U
Gross Gamma		ND	pCi/L					0	30	

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QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										
Batch: C_RA226-4544										
Sample ID: C10050641-007AMS		Sample Matrix Spike					Run: SLIB-C133373			06/02/10 10:57
Radium 226		18	pCi/L	110		70	130			
Sample ID: C10050641-007AMSD		Sample Matrix Spike Duplicate					Run: SUB-C133373			06/02/10 12:29
Radium 226		17	pCi/L	109		70	130	0.9	23.4	
Sample ID: MB-RA226-4544	3	Method Blank					Run: SUB-C133373			06/02/10 12:29
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4544		Laboratory Control Sample					Run: SLIB-C133373			06/02/10 12:29
Radium 226		8.8	pCi/L	113		70	130			
Method: E903.0										
Batch: C_R133983										
Sample ID: C10050920-002AMS		Sample Matrix Spike					Run: SUB-C133983			06/18/10 08:32
Radium 226		8.7	pCi/g-dry	112		70	130			
Sample ID: C10050920-002AMSD		Sample Matrix Spike Duplicate					Run: SUB-C133983			06/18/10 08:32
Radium 226		8.6	pCi/g-dry	112		70	130	0.4	23.7	
Sample ID: LCS-26223		Laboratory Control Sample					Run: SUB-C133983			06/18/10 08:32
Radium 226		18	pCi/L	116		70	130			
Sample ID: MB-26223	3	Method Blank					Run: SUB-C133983			06/18/10 08:32
Radium 226		0.3	pCi/L							U
Radium 226 precision (±)		0.3	pCi/L							
Radium 226 MDC		0.3	pCi/L							

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QA/QC Summary Report

Revised Date: 09/10/10
Report Date: 06/29/10
Work Order: R10050253

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										
Batch: C_RA-TH-ISO-1179										
Sample ID: LCS-RA-TH-ISO-1179	Laboratory Control Sample					Run: SUB-C133256		05/27/10 08:45		
Thorium 230		4.9	pCi/L	93		70	130			
Sample ID: R10050253-002H	Sample Matrix Spike					Run: SUB-C133256		05/27/10 08:45		
Thorium 230		12	pCi/L	95		70	130			
Sample ID: R10050253-002H	Sample Matrix Spike Duplicate					Run: SUB-C133256		05/27/10 08:45		
Thorium 230		11	pCi/L	86		70	130	10	38.3	
Sample ID: MB-RA-TH-ISO-1179	3	Method Blank				Run: SUB-C133256		05/27/10 08:45		
Thorium 230		0.006	pCi/L	U						
Thorium 230 MDC		0.1	pCi/L							
Thorium 230 precision (±)		0.06	pCi/L							
Method: E907.0										
Batch: C_R133616										
Sample ID: LCS-26223	Laboratory Control Sample					Run: SUB-C133616		06/04/10 10:06		
Thorium 230		4.6	pCi/L	98		70	130			
Sample ID: MB-26223	3	Method Blank				Run: SUB-C133616		06/04/10 10:06		
Thorium 230		-0.2	pCi/L	U						
Thorium 230 MDC		0.2	pCi/L							
Thorium 230 precision (±)		0.1	pCi/L							
Sample ID: C10050803-001DMS	Sample Matrix Spike					Run: SUB-C133616		06/04/10 10:06		
Thorium 230		4.7	pCi/L	108		70	130			
Sample ID: C10050803-001DMSD	Sample Matrix Spike Duplicate					Run: SUB-C133616		06/04/10 10:06		
Thorium 230		5.6	pCi/L	125		70	130	16	45.6	
Sample ID: LCS-26241	Laboratory Control Sample					Run: SUB-C133616		06/04/10 10:06		
Thorium 230		4.9	pCi/L	101		70	130			
Sample ID: MB-26241	3	Method Blank				Run: SUB-C133616		06/04/10 10:06		
Thorium 230		-0.06	pCi/L	U						
Thorium 230 MDC		0.2	pCi/L							
Thorium 230 precision (±)		0.1	pCi/L							

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QA/QC Summary Report

Revised Date: 09/10/10

Client: Powertech USA Inc

Report Date: 06/29/10

Project: Dewey Groundwater Sampling

Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M								Batch: C_PB-210-0712		
Sample ID: C10050659-006AMS		Sample Matrix Spike					Run: SUB-C133793			06/13/10 12:33
Lead 210		113	pCi/g-dry	109		70	130			
Sample ID: C10050659-006AMSD		Sample Matrix Spike Duplicate					Run: SUB-C133793			06/13/10 14:34
Lead 210		108	pCi/g-dry	104		70	130	4.8	17	
Sample ID: MB-26211	3	Method Blank					Run: SUB-C133793			06/13/10 20:39
Lead 210		ND	pCi/g-dry							U
Lead 210 precision (±)		0.02	pCi/g-dry							
Lead 210 MDC		0.03	pCi/g-dry							
Sample ID: MB-26223	3	Method Blank					Run: SUB-C133793			06/13/10 22:40
Lead 210		5	pCi/L							U
Lead 210 precision (±)		20	pCi/L							
Lead 210 MDC		30	pCi/L							
Sample ID: LCS-26211		Laboratory Control Sample					Run: SUB-C133793			06/14/10 00:42
Lead 210		60.7	pCi/g-dry	116		70	130			
Sample ID: LCS-26223		Laboratory Control Sample					Run: SUB-C133793			06/14/10 02:44
Lead 210		650	pCi/L	124		70	130			
Method: E909.0M								Batch: C_PB-210-0710		
Sample ID: C09110441-001GMS		Sample Matrix Spike					Run: SUB-C133803			06/12/10 06:10
Lead 210		240	pCi/L	107		70	130			
Sample ID: C09110441-001GMSD		Sample Matrix Spike Duplicate					Run: SUB-C133803			06/12/10 08:11
Lead 210		230	pCi/L	102		70	130	4.6	17.8	
Sample ID: MB-PB-210-0710	3	Method Blank					Run: SUB-C133803			06/12/10 10:13
Lead 210		ND	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		6	pCi/L							
Sample ID: LCS-PB-210-0710		Laboratory Control Sample					Run: SUB-C133803			06/12/10 14:16
Lead 210		100	pCi/L	94		70	130			

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QA/QC Summary Report

Revised Date: 09/10/10

Client: Powertech USA Inc

Report Date: 06/29/10

Project: Dewey Groundwater Sampling

Work Order: R10050253

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0 Batch: C_R133609										
Sample ID: LCS-26223 Laboratory Control Sample Run: SUB-C133609 06/07/10 08:48										
Polonium 210		76	pCi/L	97		70	130			
Sample ID: MB-26223 3 Method Blank Run: SUB-C133609 06/07/10 08:48										
Polonium 210		0.7	pCi/L							U
Polonium 210 precision (±)		2	pCi/L							
Polonium 210 MDC		3	pCi/L							
Sample ID: C10050803-004DMS Sample Matrix Spike Run: SUB-C133609 06/07/10 11:03										
Polonium 210		15	pCi/L	104		70	130			
Sample ID: C10050803-004DMSD Sample Matrix Spike Duplicate Run: SUB-C133609 06/07/10 11:03										
Polonium 210		12	pCi/L	89		70	130	15		58
Sample ID: LCS-26241 Laboratory Control Sample Run: SUB-C133609 06/07/10 11:03										
Polonium 210		92	pCi/L	118		70	130			
Sample ID: MB-26241 3 Method Blank Run: SUB-C133609 06/07/10 11:03										
Polonium 210		0.3	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		3	pCi/L							
Method: E912.0 Batch: C_PO210-0301										
Sample ID: R10050253-002K Sample Matrix Spike Run: SUB-C133610 06/07/10 08:47										
Polonium 210		36	pCi/L	110		70	130			
Sample ID: R10050253-002K Sample Matrix Spike Duplicate Run: SUB-C133610 06/07/10 08:47										
Polonium 210		32	pCi/L	97		70	130	13		65.4
Sample ID: LCS-PO210-0301 Laboratory Control Sample Run: SUB-C133610 06/07/10 08:47										
Polonium 210		16	pCi/L	99		70	130			
Sample ID: MB-PO210-0301 3 Method Blank Run: SUB-C133610 06/07/10 08:47										
Polonium 210		-0.05	pCi/L							U
Polonium 210 MDC		0.7	pCi/L							
Polonium 210 precision (±)		0.2	pCi/L							

Qualifiers:

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Chain of Custody and Analytical Request Record

PLEASE PRINT. Provide as much information as possible.

Company Name: Scott Env., Powtuck
 Report Mail Address: Scott Env., Powtuck
 Invoice Address: _____

Project Name, PWS, Permit, Etc.: _____
 Contact Name: Donna Dege Burdick
 Phone/Fax: _____
 Email: _____

Sample Origin: _____ State: _____
 EPA/State Compliance: Yes No
 Sampler: (Please Print) _____

Purchase Order: _____
 Quote/Bottle Order: _____

Special Report/Formats - EII must be notified prior to sample submittal for the following:

- DW
- GSA
- POTW/WWTP
- State: _____
- Other: _____
- A2LA
- EDD/EDT (Electronic Data)
- Format: _____
- LEVEL IV
- NELAC

Number of Containers _____
 Sample Type: A W S V B O
 Air Water Soils/Solids
 Vegetation Bioassay Other

ANALYSIS REQUESTED

SEE ATTACHED Normal Turnaround (TAT)

RUSH

Contact EII prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments: _____

Shipped by: _____
 Cooler Dry: _____
 Recycle Temp: 3.1 °C

On Line: Yes No
 Custody Seal: Y N
 Bottle/Cooler: B C
 Intact: Y N
 Signature: _____
 Match: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Received by (print):		Date/Time		Signature
				Reinquired by (print):	Date/Time	Received by (print):	Date/Time	
1 <u>DB-09-21-01</u>	<u>5-17-10</u>		<u>water</u>					
2 <u>DB-09-21-02</u>	<u>5-17-10</u>		<u>water</u>					
3								
4								
5								
6								
7								
8								
9								
10								

LABORATORY USE ONLY

Custody Record MUST be Signed

Reinquired by (print): 9/15/10 Date/Time: 5-17-10 10:38 AM Signature: [Signature]

Received by (print): Steve Ireland Date/Time: 5-18-10 10:38 Signature: [Signature]

Lab Disposal: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

August 23, 2010

Mark Hollenbeck
Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10060444

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 6/23/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10060444-001	DB-09-21-01	06/22/10 0:00	06/23/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10060444-002	DB-09-21-02	06/22/10 0:00	06/23/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2010.08.23 09:35:58 -06:00



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10060444

Report Date: 08/23/10

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002.

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Comments imported for SUBBED Workorder: C10061034

RA226 ANALYSIS

The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

PB210 ANALYSIS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

End of comments imported for SUBBED Workorder: C10061034



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-001
Client Sample ID: DB-09-21-01

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	152	mg/L		5		1	A2320 B	07/01/10 11:16/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/01/10 11:16/mb
Bicarbonate as HCO3	185	mg/L		5		1	A2320 B	07/01/10 11:16/mb
Calcium	92	mg/L	D	1		5	E200.7	07/01/10 15:12/eli-c
Chloride	7	mg/L		1		1	E300.0	06/24/10 13:07/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	06/24/10 13:07/jmh
Magnesium	33.6	mg/L		0.5		5	E200.7	07/01/10 15:12/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/02/10 16:22/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/24/10 13:07/jmh
Nitrogen, Nitrite as N	0.3	mg/L		0.1		1	E300.0	06/24/10 13:07/jmh
Potassium	11.8	mg/L		0.5		5	E200.7	07/01/10 15:12/eli-c
Sodium	159	mg/L	D	1		5	E200.7	07/01/10 15:12/eli-c
Sulfate	524	mg/L	D	20		20	E300.0	06/24/10 12:49/jmh
Silica	8.2	mg/L		0.2		1	E200.8	06/29/10 00:27/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1320	umhos/cm		5.0		1	A2510 B	07/01/10 12:59/tb
Oxidation-Reduction Potential	330	mV				1	A2580 B	06/29/10 16:30/jmh
pH	7.86	s.u.		0.01		1	A4500-H B	06/28/10 13:09/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	08/12/10 16:22/ADM
Solids, Total Dissolved TDS @ 180 C	910	mg/L	D	10		1	A2540 C	06/28/10 12:45/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/01/10 04:08/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/29/10 00:27/eli-c
Barium	ND	mg/L		0.1		1	E200.8	06/29/10 00:27/eli-c
Boron	ND	mg/L		0.1		5	E200.7	07/01/10 15:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/29/10 00:27/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	06/29/10 00:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/29/10 00:27/eli-c
Iron	ND	mg/L		0.03		1	E200.8	06/29/10 00:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/29/10 00:27/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	06/29/10 00:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/29/10 00:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	06/29/10 00:27/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	06/29/10 00:27/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/01/10 16:39/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	07/01/10 04:08/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/29/10 00:27/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-001
Client Sample ID: DB-09-21-01

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	06/29/10 00:27/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	06/29/10 00:27/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	06/29/10 00:27/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/11/10 07:36/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/01/10 14:55/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/02/10 07:18/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	6.2	pCi/L	U			1	E900.0	07/19/10 22:35/eli-ca
Gross Alpha precision (±)	4.7	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Alpha MDC	7.1	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta	13.4	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta precision (±)	2.7	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta MDC	4.2	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Lead 210	0.8	pCi/L	U			1	E909.0M	07/11/10 20:11/eli-c
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	07/11/10 20:11/eli-c
Lead 210 MDC	2.3	pCi/L				1	E909.0M	07/11/10 20:11/eli-c
Polonium 210	0.11	pCi/L	U			1	E912.0	07/06/10 09:18/eli-ca
Polonium 210 MDC	0.54	pCi/L				1	E912.0	07/06/10 09:18/eli-ca
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	07/06/10 09:18/eli-ca
Radium 226	1.8	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Thorium 230	1.2	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Gross Gamma	500	pCi/L				1	E901.1	06/28/10 10:55/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	06/28/10 10:55/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	2.7	pCi/L	U			1	E909.0M	07/07/10 08:46/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	07/07/10 08:46/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	07/07/10 08:46/eli-c
Polonium 210	-0.036	pCi/L	U			1	E912.0	07/08/10 09:12/eli-ca
Polonium 210 precision (±)	0.24	pCi/L				1	E912.0	07/08/10 09:12/eli-ca

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-001
Client Sample ID: DB-09-21-01

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By	
				RL	QCL	DF			
RADIONUCLIDES - SUSPENDED									
Polonium 210 MDC	0.64	pCi/L					1	E912.0	07/08/10 09:12/eli-ca
Radium 226	-0.3	pCi/L	U				1	E903.0	07/12/10 22:14/eli-c
Radium 226 precision (±)	0.2	pCi/L					1	E903.0	07/12/10 22:14/eli-c
Radium 226 MDC	0.4	pCi/L					1	E903.0	07/12/10 22:14/eli-c
Thorium 230	-0.4	pCi/L	U				1	E907.0	07/07/10 11:11/eli-c
Thorium 230 precision (±)	0.3	pCi/L					1	E907.0	07/07/10 11:11/eli-c
- See Case Narrative regarding Pb210 analysis.									
- See Case Narrative regarding Ra226 analysis.									
RADIONUCLIDES - TOTAL									
Radon 222	243	pCi/L		100			1	D5072-92	06/25/10 00:00/kl
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	07/02/10 01:52/eli-c
Arsenic	0.004	mg/L		0.001			1	E200.8	07/02/10 01:52/eli-c
Barium	ND	mg/L		0.1			2	E200.7	07/01/10 23:22/eli-c
Beryllium	ND	mg/L		0.001			2	E200.7	07/01/10 23:22/eli-c
Boron	0.1	mg/L		0.1			2	E200.7	07/01/10 23:22/eli-c
Cadmium	ND	mg/L		0.005			2	E200.7	07/01/10 23:22/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	07/01/10 23:22/eli-c
Copper	ND	mg/L		0.01			2	E200.7	07/01/10 23:22/eli-c
Iron	0.31	mg/L		0.03			2	E200.7	07/01/10 23:22/eli-c
Lead	ND	mg/L		0.001			1	E200.8	07/02/10 01:52/eli-c
Manganese	0.05	mg/L		0.01			2	E200.7	07/01/10 23:22/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	06/28/10 11:41/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	07/01/10 23:22/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	07/01/10 23:22/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	07/02/10 01:52/eli-c
Silver	ND	mg/L		0.005			2	E200.7	07/01/10 23:22/eli-c
Strontium	2.8	mg/L		0.1			2	E200.7	07/01/10 23:22/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	07/02/10 01:52/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	07/02/10 01:52/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	07/02/10 01:52/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.50	%					1	A1030 E	08/19/10 00:00/jmh
Anions	14.2	meq/L					1	A1030 E	08/19/10 00:00/jmh
Cations	14.6	meq/L					1	A1030 E	08/19/10 00:00/jmh
Solids, Total Dissolved Calculated	944	mg/L					1	A1030 E	08/19/10 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960						1	A1030 E	08/19/10 00:00/jmh

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LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-002
Client Sample ID: DB-09-21-02

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	210	mg/L		5		1	A2320 B	07/01/10 11:19/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/01/10 11:19/mb
Bicarbonate as HCO3	256	mg/L		5		1	A2320 B	07/01/10 11:19/mb
Calcium	165	mg/L	D	1		5	E200.7	07/01/10 15:16/eli-c
Chloride	9	mg/L		1		1	E300.0	06/24/10 13:42/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	06/24/10 13:42/jmh
Magnesium	47.4	mg/L		0.5		5	E200.7	07/01/10 15:16/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	07/02/10 16:25/jmh
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	06/24/10 13:42/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	06/24/10 13:42/jmh
Potassium	11.8	mg/L		0.5		5	E200.7	07/01/10 15:16/eli-c
Sodium	130	mg/L	D	1		5	E200.7	07/01/10 15:16/eli-c
Sulfate	640	mg/L	D	20		20	E300.0	06/24/10 13:25/jmh
Silica	7.6	mg/L		0.2		1	E200.8	06/29/10 00:33/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1520	umhos/cm		5.0		1	A2510 B	07/01/10 13:02/tb
Oxidation-Reduction Potential	340	mV				1	A2580 B	06/29/10 16:30/jmh
pH	7.50	s.u.		0.01		1	A4500-H B	06/28/10 13:15/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation	08/12/10 16:22/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	D	10		1	A2540 C	06/28/10 12:47/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/01/10 04:15/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	06/29/10 00:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	06/29/10 00:33/eli-c
Boron	ND	mg/L		0.1		5	E200.7	07/01/10 15:16/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/29/10 00:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	06/29/10 00:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/29/10 00:33/eli-c
Iron	ND	mg/L		0.03		1	E200.8	06/29/10 00:33/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/29/10 00:33/eli-c
Manganese	0.56	mg/L		0.01		1	E200.8	06/29/10 00:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/29/10 00:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	06/29/10 00:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	06/29/10 00:33/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	07/01/10 16:45/eli-ca
Silver	ND	mg/L		0.005		1	E200.8	07/01/10 04:15/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/29/10 00:33/eli-c

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-002
Client Sample ID: DB-09-21-02

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0087	mg/L		0.0003		1	E200.8	06/29/10 00:33/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	06/29/10 00:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	06/29/10 00:33/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	07/11/10 07:40/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/01/10 15:02/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/02/10 07:18/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	34.0	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Alpha precision (±)	7.2	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Alpha MDC	8.8	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta	19.6	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta precision (±)	3.3	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Gross Beta MDC	5.0	pCi/L				1	E900.0	07/19/10 22:35/eli-ca
Lead 210	0.7	pCi/L	U			1	E909.0M	07/11/10 22:13/eli-c
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	07/11/10 22:13/eli-c
Lead 210 MDC	2.3	pCi/L				1	E909.0M	07/11/10 22:13/eli-c
Polonium 210	-0.042	pCi/L	U			1	E912.0	07/06/10 09:18/eli-ca
Polonium 210 MDC	0.60	pCi/L				1	E912.0	07/06/10 09:18/eli-ca
Polonium 210 precision (±)	0.22	pCi/L				1	E912.0	07/06/10 09:18/eli-ca
Radium 226	2.5	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/06/10 17:27/eli-ca
Thorium 230	0.8	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/01/10 13:14/eli-c
Gross Gamma	1300	pCi/L				1	E901.1	06/28/10 10:55/eli-c
Gross Gamma precision (±)	310	pCi/L				1	E901.1	06/28/10 10:55/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.05	pCi/L	U			1	E909.0M	07/07/10 08:46/eli-c
Lead 210 precision (±)	3.4	pCi/L				1	E909.0M	07/07/10 08:46/eli-c
Lead 210 MDC	5.7	pCi/L				1	E909.0M	07/07/10 08:46/eli-c
Polonium 210	-0.047	pCi/L	U			1	E912.0	07/08/10 09:12/eli-ca
Polonium 210 precision (±)	0.31	pCi/L				1	E912.0	07/08/10 09:12/eli-ca

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10060444-002
Client Sample ID: DB-09-21-02

Report Date: 08/23/10
Collection Date: 06/22/10
Date Received: 06/23/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.85	pCi/L				1	E912.0	07/08/10 09:12/eli-ca
Radium 226	-0.2	pCi/L	U			1	E903.0	07/12/10 22:14/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/12/10 22:14/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	07/12/10 22:14/eli-c
Thorium 230	-0.2	pCi/L	U			1	E907.0	07/07/10 11:12/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/07/10 11:12/eli-c
- See Case Narrative regarding Ra226 analysis.								
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	338	pCi/L		100		1	D5072-92	06/25/10 00:00/kl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	07/12/10 18:14/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/12/10 18:14/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/02/10 19:00/eli-c
Beryllium	ND	mg/L		0.001		2	E200.7	07/02/10 19:00/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/02/10 19:00/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	07/02/10 19:00/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/02/10 19:00/eli-c
Copper	ND	mg/L		0.01		2	E200.7	07/02/10 19:00/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/02/10 19:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/12/10 18:14/eli-c
Manganese	0.57	mg/L		0.01		2	E200.7	07/02/10 19:00/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	06/28/10 11:42/eli-b
Molybdenum	ND	mg/L		0.1		2	E200.7	07/02/10 19:00/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/02/10 19:00/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	07/12/10 18:14/eli-c
Silver	ND	mg/L		0.005		2	E200.7	07/02/10 19:00/eli-c
Strontium	2.4	mg/L		0.1		2	E200.7	07/02/10 19:00/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	07/12/10 18:14/eli-c
Uranium	0.0081	mg/L		0.0003		1	E200.8	07/12/10 18:14/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	07/12/10 18:14/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.900	%				1	A1030 E	08/19/10 00:00/jmh
Anions	17.8	meq/L				1	A1030 E	08/19/10 00:00/jmh
Cations	18.2	meq/L				1	A1030 E	08/19/10 00:00/jmh
Solids, Total Dissolved Calculated	1150	mg/L				1	A1030 E	08/19/10 00:00/jmh
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	08/19/10 00:00/jmh

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 100701A-ALK-SEL-W		
Sample ID: LCS1_100701A		Laboratory Control Sample					Run: PH_COND1-R_100701A		07/01/10 10:06	
Alkalinity, Total as CaCO3		972	mg/L	5.0	97	90	110			
Sample ID: MBLK1_100701A		Method Blank					Run: PH_COND1-R_100701A		07/01/10 10:07	
Alkalinity, Total as CaCO3		ND	mg/L	3						
Sample ID: R10060398-009AMS		Sample Matrix Spike					Run: PH_COND1-R_100701A		07/01/10 10:58	
Alkalinity, Total as CaCO3		290	mg/L	5.0	89	80	120			
Sample ID: R10060398-009AMSD		Sample Matrix Spike Duplicate					Run: PH_COND1-R_100701A		07/01/10 11:00	
Alkalinity, Total as CaCO3		296	mg/L	5.0	94	80	120	2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Batch: 100701_1_COND-PROBE-W		
Sample ID: LCS1-1_100701		Laboratory Control Sample					Run: PH_COND2-R_100701B			07/01/10 12:43
Conductivity @ 25 C		151 umhos/cm		5.0	101	90	110			
Sample ID: LCS2-1_100701		Laboratory Control Sample					Run: PH_COND2-R_100701B			07/01/10 12:45
Conductivity @ 25 C		5010 umhos/cm		5.0	100	90	110			
Sample ID: LCS_COND-1_100701		Laboratory Control Sample					Run: PH_COND2-R_100701B			07/01/10 12:47
Conductivity @ 25 C		1410 umhos/cm		5.0	100	90	110			
Sample ID: MBLK-1_100701		Method Blank					Run: PH_COND2-R_100701B			07/01/10 12:49
Conductivity @ 25 C		8 umhos/cm		5						
Sample ID: R10060424-001JDUP		Sample Duplicate					Run: PH_COND2-R_100701B			07/01/10 12:53
Conductivity @ 25 C		101 umhos/cm		5.0				0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 100628A-SLDS-TDS-W		
Sample ID: LCS1_100628A Laboratory Control Sample Run: BAL-4-R_100628A 06/28/10 12:31										
Solids, Total Dissolved TDS @ 180 C		190	mg/L	10	95	90	110			
Sample ID: MBLK1_100628A Method Blank Run: BAL-4-R_100628A 06/28/10 12:32										
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	5						
Sample ID: R10060444-001ADUP Sample Duplicate Run: BAL-4-R_100628A 06/28/10 12:45										
Solids, Total Dissolved TDS @ 180 C		910	mg/L	10						5
Sample ID: R10060444-002ADUP Sample Duplicate Run: BAL-4-R_100628A 06/28/10 12:48										
Solids, Total Dissolved TDS @ 180 C		1100	mg/L	10				0.9		5
Sample ID: R10060477-001CMS Sample Matrix Spike Run: BAL-4-R_100628A 06/28/10 12:51										
Solids, Total Dissolved TDS @ 180 C		2300	mg/L	10	105	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 100629-ORP-ISE-W		
Sample ID: LCS		Laboratory Control Sample			Run: PH_COND1-R_100629B			06/29/10 16:30		
Oxidation-Reduction Potential		490	mV		103	95	105			
Sample ID: R10050321-011A		Sample Duplicate			Run: PH_COND1-R_100629B			06/29/10 16:30		
Oxidation-Reduction Potential		510	mV					0.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Analytical Run: SUB-C134466		
Sample ID: As/Se 1.0mg/L-Q 0622 Initial Calibration Verification Standard 07/01/10 14:33										
Selenium-IV		0.052	mg/L	0.0010	104	90	110			
Method: A3114 B								Batch: C_26567		
Sample ID: MB-26567 Method Blank Run: SUB-C134466 07/01/10 14:40										
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LCS-26567 Laboratory Control Sample Run: SUB-C134466 07/01/10 14:42										
Selenium-IV		0.051	mg/L	0.0010	102	90	110			
Sample ID: R10060444-001E Sample Matrix Spike Run: SUB-C134466 07/01/10 14:57										
Selenium-IV		0.049	mg/L	0.0010	98	85	115			
Sample ID: R10060444-001E Sample Matrix Spike Duplicate Run: SUB-C134466 07/01/10 14:59										
Selenium-IV		0.049	mg/L	0.0010	98	85	115	0	10	
Method: A3114 B								Batch: C_26567		
Sample ID: MB-26567 Method Blank Run: SUB-C134475 07/01/10 16:25										
Selenium		ND	mg/L	0.0002						
Sample ID: LCS-26567 Laboratory Control Sample Run: SUB-C134475 07/01/10 16:27										
Selenium		0.051	mg/L	0.0010	103	90	110			
Sample ID: R10060444-001E Sample Matrix Spike Run: SUB-C134475 07/01/10 16:41										
Selenium		0.053	mg/L	0.0010	105	85	115			
Sample ID: R10060444-001E Sample Matrix Spike Duplicate Run: SUB-C134475 07/01/10 16:43										
Selenium		0.052	mg/L	0.0010	103	85	115	2.2	15	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 100628_1_PH-W		
Sample ID: LCS_pH-1_100628	Laboratory Control Sample					Run: PH_COND2-R_100628A		06/28/10 13:03		
pH		7.42	s.u.	0.010	100	98.55	101.45			
Sample ID: R10060444-001ADUP	Sample Duplicate					Run: PH_COND2-R_100628A		06/28/10 13:13		
pH		7.82	s.u.	0.010				0.5	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2010-07-02_2_NH3_01		
Sample ID: MBLK-2		Method Blank					Run: TECHAA2-R_100702A		07/02/10 12:29	
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LFB-3		Laboratory Fortified Blank					Run: TECHAA2-R_100702A		07/02/10 12:31	
Nitrogen, Ammonia as N		0.27	mg/L	0.10	107	90	110			
Sample ID: R10060444-001BMS		Sample Matrix Spike					Run: TECHAA2-R_100702A		07/02/10 16:23	
Nitrogen, Ammonia as N		0.35	mg/L	0.10	104	80	120			
Sample ID: R10060444-001BMSD		Sample Matrix Spike Duplicate					Run: TECHAA2-R_100702A		07/02/10 16:24	
Nitrogen, Ammonia as N		0.35	mg/L	0.10	102	80	120	0.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: C_26553										
Sample ID: MB-26553	12	Method Blank								
										Run: SUB-C134477
Barium		ND	mg/L	0.002						07/01/10 23:14
Beryllium		ND	mg/L	0.0001						
Boron		0.02	mg/L	0.008						
Cadmium		ND	mg/L	0.001						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.008						
Manganese		ND	mg/L	0.0008						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Silver		ND	mg/L	0.001						
Strontium		ND	mg/L	0.0002						
Sample ID: LCS3-26553	12	Laboratory Control Sample								
										Run: SUB-C134477
Barium		0.501	mg/L	0.10	100	85	115			07/01/10 23:18
Beryllium		0.255	mg/L	0.010	102	85	115			
Boron		0.515	mg/L	0.10	98	85	115			
Cadmium		0.256	mg/L	0.010	102	85	115			
Chromium		0.502	mg/L	0.050	100	85	115			
Copper		0.504	mg/L	0.010	101	85	115			
Iron		2.51	mg/L	0.030	100	85	115			
Manganese		2.48	mg/L	0.010	99	85	115			
Molybdenum		0.499	mg/L	0.10	100	85	115			
Nickel		0.494	mg/L	0.050	99	85	115			
Silver		0.0493	mg/L	0.010	99	85	115			
Strontium		0.509	mg/L	0.10	102	85	115			
Sample ID: C10061061-001CMS3	12	Sample Matrix Spike								
										Run: SUB-C134477
Barium		0.645	mg/L	0.10	108	70	130			07/01/10 23:38
Beryllium		0.268	mg/L	0.010	107	70	130			
Boron		0.748	mg/L	0.10	107	70	130			
Cadmium		0.274	mg/L	0.010	110	70	130			
Chromium		0.540	mg/L	0.050	108	70	130			
Copper		0.598	mg/L	0.010	107	70	130			
Iron		3.71	mg/L	0.030	108	70	130			
Manganese		2.69	mg/L	0.010	104	70	130			
Molybdenum		0.549	mg/L	0.10	105	70	130			
Nickel		0.537	mg/L	0.050	105	70	130			
Silver		0.0486	mg/L	0.010	97	70	130			
Strontium		1.18	mg/L	0.10	109	70	130			
Sample ID: C10061061-001CMSD3	12	Sample Matrix Spike Duplicate								
										Run: SUB-C134477
Barium		0.639	mg/L	0.10	107	70	130	0.9	20	07/01/10 23:42
Beryllium		0.265	mg/L	0.010	106	70	130	1.3	20	
Boron		0.754	mg/L	0.10	108	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7 Batch: C_26553										
Sample ID: C10061061-001CMSD3 12 Sample Matrix Spike Duplicate Run: SUB-C134477 07/01/10 23:42										
Cadmium		0.264	mg/L	0.010	106	70	130	3.7	20	
Chromium		0.533	mg/L	0.050	107	70	130	1.3	20	
Copper		0.571	mg/L	0.010	102	70	130	4.8	20	
Iron		3.62	mg/L	0.030	105	70	130	2.6	20	
Manganese		2.66	mg/L	0.010	103	70	130	1	20	
Molybdenum		0.549	mg/L	0.10	105	70	130	0	20	
Nickel		0.532	mg/L	0.050	104	70	130	0.9	20	
Silver		0.0506	mg/L	0.010	101	70	130	4	20	
Strontium		1.18	mg/L	0.10	107	70	130	0.5	20	
Method: E200.7 Batch: C_R134477										
Sample ID: MB-100701A 5 Method Blank Run: SUB-C134477 07/01/10 10:51										
Boron		0.02	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100701A 5 Laboratory Fortified Blank Run: SUB-C134477 07/01/10 10:55										
Boron		0.96	mg/L	0.10	94	85	115			
Calcium		49	mg/L	0.50	98	85	115			
Magnesium		49	mg/L	0.50	98	85	115			
Potassium		45	mg/L	0.50	89	85	115			
Sodium		47	mg/L	0.50	94	85	115			
Sample ID: C10060982-005BMS2 5 Sample Matrix Spike Run: SUB-C134477 07/01/10 13:03										
Boron		1.92	mg/L	0.10	94	70	130			
Calcium		98.3	mg/L	1.0	94	70	130			
Magnesium		95.0	mg/L	1.0	93	70	130			
Potassium		98.4	mg/L	1.0	96	70	130			
Sodium		97.6	mg/L	1.0	95	70	130			
Sample ID: C10060982-005BMSD2 5 Sample Matrix Spike Duplicate Run: SUB-C134477 07/01/10 13:07										
Boron		1.94	mg/L	0.10	95	70	130	1.3	20	
Calcium		99.1	mg/L	1.0	95	70	130	0.7	20	
Magnesium		96.9	mg/L	1.0	95	70	130	2	20	
Potassium		97.3	mg/L	1.0	95	70	130	1.1	20	
Sodium		98.6	mg/L	1.0	96	70	130	1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R134533
Sample ID: C10060999-001DMS2	12	Sample Matrix Spike		Run: SUB-C134533				07/02/10 18:52		
Barium		2.41	mg/L	0.10	98	70	130			
Beryllium		2.00	mg/L	0.010	98	70	130			
Boron		2.04	mg/L	0.10	99	70	130			
Cadmium		2.00	mg/L	0.010	98	70	130			
Chromium		2.00	mg/L	0.050	98	70	130			
Copper		2.04	mg/L	0.010	100	70	130			
Iron		2.04	mg/L	0.030	98	70	130			
Manganese		2.08	mg/L	0.010	97	70	130			
Molybdenum		1.99	mg/L	0.10	98	70	130			
Nickel		2.02	mg/L	0.050	99	70	130			
Silver		1.94	mg/L	0.010	95	70	130			
Strontium		3.19	mg/L	0.10	100	70	130			
Sample ID: C10060999-001DMSD2	12	Sample Matrix Spike Duplicate		Run: SUB-C134533				07/02/10 18:56		
Barium		2.39	mg/L	0.10	97	70	130	0.9	20	
Beryllium		1.98	mg/L	0.010	97	70	130	0.7	20	
Boron		2.04	mg/L	0.10	99	70	130	0.2	20	
Cadmium		1.95	mg/L	0.010	96	70	130	2.4	20	
Chromium		1.95	mg/L	0.050	96	70	130	2.2	20	
Copper		1.99	mg/L	0.010	98	70	130	2.1	20	
Iron		1.99	mg/L	0.030	96	70	130	2.3	20	
Manganese		2.04	mg/L	0.010	95	70	130	1.7	20	
Molybdenum		1.98	mg/L	0.10	97	70	130	0.5	20	
Nickel		2.03	mg/L	0.050	99	70	130	0.5	20	
Silver		1.91	mg/L	0.010	93	70	130	1.6	20	
Strontium		3.16	mg/L	0.10	98	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R134311A
Sample ID: R10060444-002C	16	Post Digestion Spike		Run: SUB-C134311				06/29/10 01:08		
Arsenic		0.0547	mg/L	0.0010	107	70	130			
Barium		0.0631	mg/L	0.0010	104	70	130			
Cadmium		0.0502	mg/L	0.010	100	70	130			
Chromium		0.0522	mg/L	0.050	104	70	130			
Copper		0.0504	mg/L	0.010	101	70	130			
Iron		1.28	mg/L	0.030	102	70	130			
Lead		0.0535	mg/L	0.050	107	70	130			
Manganese		0.603	mg/L	0.010		70	130			A
Mercury		0.00543	mg/L	0.0010	109	70	130			
Molybdenum		0.0534	mg/L	0.0010	105	70	130			
Nickel		0.0512	mg/L	0.050	101	70	130			
Silicon		4.30	mg/L	0.10		70	130			A
Thorium 232		0.0541	mg/L	0.0010	108	70	130			
Uranium		0.0608	mg/L	0.00030	104	70	130			
Vanadium		0.0536	mg/L	0.0010	106	70	130			
Zinc		0.0536	mg/L	0.010	100	70	130			
Sample ID: R10060444-002C	16	Post Digestion Spike Duplicate		Run: SUB-C134311				06/29/10 01:15		
Arsenic		0.0560	mg/L	0.0010	110	70	130	2.3	20	
Barium		0.0650	mg/L	0.0010	108	70	130	2.9	20	
Cadmium		0.0518	mg/L	0.010	104	70	130	3.2	20	
Chromium		0.0537	mg/L	0.050	107	70	130	2.8	20	
Copper		0.0516	mg/L	0.010	103	70	130	2.2	20	
Iron		1.29	mg/L	0.030	103	70	130	0.6	20	
Lead		0.0551	mg/L	0.050	110	70	130	2.9	20	
Manganese		0.612	mg/L	0.010		70	130	1.6	20	A
Mercury		0.00559	mg/L	0.0010	112	70	130	2.9	20	
Molybdenum		0.0566	mg/L	0.0010	112	70	130	5.7	20	
Nickel		0.0525	mg/L	0.050	104	70	130	2.5	20	
Silicon		4.32	mg/L	0.10		70	130	0.4	20	A
Thorium 232		0.0558	mg/L	0.0010	112	70	130	3.1	20	
Uranium		0.0627	mg/L	0.00030	108	70	130	3.1	20	
Vanadium		0.0551	mg/L	0.0010	109	70	130	2.8	20	
Zinc		0.0542	mg/L	0.010	101	70	130	1.1	20	
Sample ID: LRB	16	Method Blank		Run: SUB-C134311				06/28/10 11:52		
Silicon		0.03	mg/L	0.0005						
Arsenic		8E-05	mg/L	4E-05						
Barium		7E-05	mg/L	3E-05						
Cadmium		7E-05	mg/L	7E-05						
Chromium		7E-05	mg/L	5E-05						
Copper		ND	mg/L	6E-05						
Iron		0.002	mg/L	0.0001						
Lead		6E-05	mg/L	2E-05						
Manganese		ND	mg/L	2E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: C_R134311A										
Sample ID: LRB	16	Method Blank				Run: SUB-C134311			06/28/10 11:52	
Mercury		3E-05	mg/L	2E-05						
Molybdenum		0.0004	mg/L	8E-05						
Nickel		8E-05	mg/L	5E-05						
Thorium 232		5E-05	mg/L	3E-05						
Uranium		6E-05	mg/L	8E-06						
Vanadium		5E-05	mg/L	1E-05						
Zinc		0.006	mg/L	0.0001						
Sample ID: LFB	16	Laboratory Fortified Blank				Run: SUB-C134311			06/28/10 11:59	
Silicon		0.584	mg/L	0.0050	106	85	115			
Arsenic		0.0533	mg/L	0.0010	106	85	115			
Barium		0.0541	mg/L	0.0010	108	85	115			
Cadmium		0.0551	mg/L	0.0010	110	85	115			
Chromium		0.0530	mg/L	0.0010	106	85	115			
Copper		0.0537	mg/L	0.0010	107	85	115			
Iron		1.30	mg/L	0.012	104	85	115			
Lead		0.0536	mg/L	0.0010	107	85	115			
Manganese		0.0542	mg/L	0.0010	108	85	115			
Mercury		0.00538	mg/L	0.0010	107	85	115			
Molybdenum		0.0537	mg/L	0.0010	107	85	115			
Nickel		0.0534	mg/L	0.0010	107	85	115			
Thorium 232		0.0525	mg/L	0.0010	105	85	115			
Uranium		0.0518	mg/L	0.00030	103	85	115			
Vanadium		0.0524	mg/L	0.0010	105	85	115			
Zinc		0.0564	mg/L	0.0010	101	85	115			
Method: E200.8										
Batch: C_R134408										
Sample ID: LRB	2	Method Blank				Run: SUB-C134408			06/30/10 11:16	
Aluminum		0.0003	mg/L	8E-05						
Silver		0.0003	mg/L	8E-05						
Sample ID: LFB	2	Laboratory Fortified Blank				Run: SUB-C134408			06/30/10 11:23	
Aluminum		0.0505	mg/L	0.0010	100	85	115			
Silver		0.0207	mg/L	0.0010	102	85	115			
Sample ID: C10061078-005BMS4	2	Post Digestion Spike				Run: SUB-C134408			07/01/10 05:24	
Aluminum		0.0563	mg/L	0.0010	90	70	130			
Silver		0.0191	mg/L	0.010	96	70	130			
Sample ID: C10061078-005BMSD4	2	Post Digestion Spike Duplicate				Run: SUB-C134408			07/01/10 05:30	
Aluminum		0.0543	mg/L	0.0010	86	70	130	3.7	20	
Silver		0.0187	mg/L	0.010	93	70	130	2.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: C_26553										
Sample ID: MB-26553										
	7	Method Blank								
Antimony		0.0002	mg/L	0.0002						
Arsenic		0.0008	mg/L	0.0003						
Lead		0.0002	mg/L	5E-05						
Selenium		ND	mg/L	0.0007						
Thallium		ND	mg/L	5E-05						
Uranium		ND	mg/L	4E-05						
Zinc		0.003	mg/L	0.001						
Sample ID: LCS3-26553										
	7	Laboratory Control Sample								
Antimony		0.557	mg/L	0.050	111	85	115			
Arsenic		0.500	mg/L	0.0010	100	85	115			
Lead		0.515	mg/L	0.050	103	85	115			
Selenium		0.508	mg/L	0.0010	102	85	115			
Thallium		0.495	mg/L	0.10	99	85	115			
Uranium		0.550	mg/L	0.00030	110	85	115			
Zinc		0.474	mg/L	0.010	94	85	115			
Sample ID: C10061061-001CMS3										
	7	Sample Matrix Spike								
Antimony		0.589	mg/L	0.050	117	70	130			
Arsenic		0.519	mg/L	0.0010	103	70	130			
Lead		0.558	mg/L	0.050	110	70	130			
Selenium		0.306	mg/L	0.0010	61	70	130			S
Thallium		0.525	mg/L	0.10	105	70	130			
Uranium		0.601	mg/L	0.00030	119	70	130			
Zinc		0.590	mg/L	0.010	91	70	130			
Sample ID: C10061061-001CMSD3										
	7	Sample Matrix Spike Duplicate								
Antimony		0.583	mg/L	0.050	116	70	130	1.1	20	
Arsenic		0.518	mg/L	0.0010	103	70	130	0.1	20	
Lead		0.552	mg/L	0.050	109	70	130	1	20	
Selenium		0.301	mg/L	0.0010	60	70	130	1.9	20	S
Thallium		0.517	mg/L	0.10	103	70	130	1.5	20	
Uranium		0.590	mg/L	0.00030	117	70	130	1.8	20	
Zinc		0.582	mg/L	0.010	89	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_26535
Sample ID: MB-26535		Method Blank					Run: SUB-C134738			07/11/10 07:07
Uranium		0.0003	mg/L	6E-05						
Sample ID: LCS2-26535		Laboratory Control Sample					Run: SUB-C134738			07/11/10 07:11
Uranium		0.110	mg/L	0.00030	110	85	115			
Sample ID: R10060444-002I		Post Digestion Spike					Run: SUB-C134738			07/11/10 07:44
Uranium		0.0138	mg/L	0.00030	111	70	130			
Sample ID: R10060444-002I		Post Digestion Spike Duplicate					Run: SUB-C134738			07/11/10 07:49
Uranium		0.0138	mg/L	0.00030	110	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: C_R134782										
Sample ID: LRB	7	Method Blank				Run: SUB-C134782			07/12/10 17:40	
Antimony		ND	mg/L	7E-05						
Arsenic		ND	mg/L	6E-05						
Lead		ND	mg/L	3E-05						
Selenium		ND	mg/L	0.0002						
Thallium		ND	mg/L	1E-05						
Uranium		ND	mg/L	1E-05						
Zinc		0.0005	mg/L	0.0003						
Sample ID: LFB	7	Laboratory Fortified Blank				Run: SUB-C134782			07/12/10 17:47	
Antimony		0.0502	mg/L	0.0010	100	85	115			
Arsenic		0.0513	mg/L	0.0010	103	85	115			
Lead		0.0505	mg/L	0.0010	101	85	115			
Selenium		0.0510	mg/L	0.0010	102	85	115			
Thallium		0.0491	mg/L	0.0010	98	85	115			
Uranium		0.0489	mg/L	0.00030	98	85	115			
Zinc		0.0574	mg/L	0.0010	114	85	115			
Sample ID: C10070031-001BMS4	7	Post Digestion Spike				Run: SUB-C134782			07/12/10 19:15	
Antimony		0.0554	mg/L	0.0010	111	70	130			
Arsenic		0.0528	mg/L	0.0010	102	70	130			
Lead		0.0510	mg/L	0.0010	102	70	130			
Selenium		0.0532	mg/L	0.0010	101	70	130			
Thallium		0.0500	mg/L	0.00040	100	70	130			
Uranium		0.0520	mg/L	0.00030	100	70	130			
Zinc		0.0542	mg/L	0.010	105	70	130			
Sample ID: C10070031-001BMSD4	7	Post Digestion Spike Duplicate				Run: SUB-C134782			07/12/10 19:22	
Antimony		0.0556	mg/L	0.0010	111	70	130	0.4	20	
Arsenic		0.0540	mg/L	0.0010	104	70	130	2.2	20	
Lead		0.0512	mg/L	0.0010	102	70	130	0.5	20	
Selenium		0.0534	mg/L	0.0010	102	70	130	0.3	20	
Thallium		0.0504	mg/L	0.00040	101	70	130	0.9	20	
Uranium		0.0525	mg/L	0.00030	102	70	130	1.1	20	
Zinc		0.0541	mg/L	0.010	104	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1										Analytical Run: SUB-B149826
Sample ID: QCS		Initial Calibration Verification Standard								06/28/10 11:23
Mercury		0.0019	mg/L	0.0010	93	90	110			
Method: E245.1										Batch: B_47296
Sample ID: MB-47296		Method Blank					Run: SUB-B149826			06/28/10 11:28
Mercury		ND	mg/L	5E-05						
Sample ID: LCS-47296		Laboratory Control Sample					Run: SUB-B149826			06/28/10 11:29
Mercury		0.0019	mg/L	0.0010	95	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E300.0		Analytical Run: DIONEX_100622A									
Sample ID: CCV062210-104	5	Continuing Calibration Verification Standard							06/24/10 11:03		
Chloride		70.9	mg/L	1.00	95	90	110				
Fluoride		7.19	mg/L	0.10	96	90	110				
Nitrogen, Nitrate as N		6.98	mg/L	0.10	93	90	110				
Nitrogen, Nitrite as N		7.10	mg/L	0.10	95	90	110				
Sulfate		69.7	mg/L	1.0	93	90	110				
Method: E300.0		Batch: R46582									
Sample ID: LFB062210-10	5	Laboratory Fortified Blank							06/22/10 20:31		
Run: DIONEX_100622A											
Chloride		37.5	mg/L	1.00	94	90	110				
Fluoride		3.91	mg/L	0.10	98	90	110				
Nitrogen, Nitrate as N		3.85	mg/L	0.10	96	90	110				
Nitrogen, Nitrite as N		3.85	mg/L	0.10	96	90	110				
Sulfate		37.0	mg/L	1.0	93	90	110				
Sample ID: R10060452-001BMS	5	Sample Matrix Spike							06/24/10 12:14		
Run: DIONEX_100622A											
Chloride		98.5	mg/L	1.00	106	90	110				
Fluoride		5.51	mg/L	0.10	99	90	110				
Nitrogen, Nitrate as N		7.87	mg/L	0.10	191	90	110			S	
Nitrogen, Nitrite as N		ND	mg/L	0.10		90	110			S	
Sulfate		236	mg/L	1.0		90	110			A	
Sample ID: R10060452-001BMSD	5	Sample Matrix Spike Duplicate							06/24/10 12:32		
Run: DIONEX_100622A											
Chloride		98.1	mg/L	1.00	105	90	110	0.4	10		
Fluoride		5.51	mg/L	0.10	99	90	110	0	10		
Nitrogen, Nitrate as N		7.82	mg/L	0.10	190	90	110	0.6	10	S	
Nitrogen, Nitrite as N		ND	mg/L	0.10		90	110		10	S	
Sulfate		236	mg/L	1.0		90	110	0.3	10	A	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0931		
Sample ID: MB-GrAB-0931	6	Method Blank				Run: SUB-C135115			07/19/10 22:35	
Gross Alpha		-1	pCi/L							U
Gross Alpha precision (±)		0.9	pCi/L							
Gross Alpha MDC		1	pCi/L							
Gross Beta		-1	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		2	pCi/L							
Sample ID: Th230-GrAB-0931		Laboratory Control Sample				Run: SUB-C135115			07/19/10 22:35	
Gross Alpha		120	pCi/L	116		70	130			
Sample ID: Cs137-GrAB-0931		Laboratory Control Sample				Run: SUB-C135115			07/19/10 22:35	
Gross Beta		83	pCi/L	94		70	130			
Sample ID: C10061049-001DDUP	6	Sample Duplicate				Run: SUB-C135115			07/19/10 22:35	
Gross Alpha		152	pCi/L					12	20.6	
Gross Alpha precision (±)		7.81	pCi/L							
Gross Alpha MDC		4.18	pCi/L							
Gross Beta		51.4	pCi/L					2.6	20.5	
Gross Beta precision (±)		2.67	pCi/L							
Gross Beta MDC		3.15	pCi/L							
Sample ID: C10070025-001EMS		Sample Matrix Spike				Run: SUB-C135115			07/21/10 04:16	
Gross Alpha		420	pCi/L	83		70	130			
Sample ID: C10070025-001EMSD		Sample Matrix Spike Duplicate				Run: SUB-C135115			07/21/10 04:16	
Gross Alpha		460	pCi/L	119		70	130	8.5	15.3	
Sample ID: C10070025-001EMS		Sample Matrix Spike				Run: SUB-C135115			07/21/10 04:16	
Gross Beta		190	pCi/L	100		70	130			
Sample ID: C10070025-001EMSD		Sample Matrix Spike Duplicate				Run: SUB-C135115			07/21/10 04:16	
Gross Beta		180	pCi/L	95		70	130	2.8	14	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										
Batch: C_R134585										
Sample ID: LCS-R134585	4	Laboratory Control Sample				Run: SUB-C134585			06/28/10 10:55	
Americium 241		640	pCi/L	20	73	70	130			
Barium 133		550	pCi/L	20	102	70	130			
Cesium 137		860	pCi/L	20	94	70	130			
Potassium 40		2800	pCi/L	20	82	70	130			
Sample ID: MB-R134585	5	Method Blank				Run: SUB-C134585			06/28/10 10:55	
Bismuth 214		ND	pCi/L							U
Cesium 137		ND	pCi/L							U
Lead 214		ND	pCi/L							U
Potassium 40		ND	pCi/L							U
Gross Gamma		ND	pCi/L							U
Sample ID: C10061076-001ADUP	3	Sample Duplicate				Run: SUB-C134585			06/28/10 10:55	
Cesium 137		ND	pCi/L	20					30	U
Potassium 40		ND	pCi/L	20					30	U
Gross Gamma		ND	pCi/L	20					30	U

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: C_RA226-4620		
Sample ID: C10060993-002DMS		Sample Matrix Spike				Run: SUB-C134637			07/06/10 15:51	
Radium 226		54	pCi/L	81		70	130			
Sample ID: C10060993-002DMSD		Sample Matrix Spike Duplicate				Run: SUB-C134637			07/06/10 15:51	
Radium 226		57	pCi/L	99		70	130	5.2	17.6	
Sample ID: MB-RA226-4620	3	Method Blank				Run: SUB-C134637			07/06/10 17:27	
Radium 226		-0.10	pCi/L							U
Radium 226 precision (±)		0.07	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4620		Laboratory Control Sample				Run: SUB-C134637			07/06/10 17:27	
Radium 226		9.7	pCi/L	123		70	130			
Method: E903.0								Batch: C_R134801		
Sample ID: C10060905-001FMS		Sample Matrix Spike				Run: SUB-C134801			07/12/10 15:23	
Radium 226		19	pCi/L	100		70	130			
Sample ID: C10060905-001FMSD		Sample Matrix Spike Duplicate				Run: SUB-C134801			07/12/10 15:23	
Radium 226		16	pCi/L	90		70	130	20	24	
Sample ID: LCS-26518		Laboratory Control Sample				Run: SUB-C134801			07/12/10 22:14	
Radium 226		13	pCi/L	88		70	130			
Sample ID: MB-26518	3	Method Blank				Run: SUB-C134801			07/12/10 22:14	
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0								Batch: C_RA-TH-ISO-1197		
Sample ID: LCS-RA-TH-ISO-1197	Laboratory Control Sample					Run: SUB-C134520		07/01/10 08:45		
Thorium 230		4.7	pCi/L	88		70	130			
Sample ID: C10061072-002CMS	Sample Matrix Spike					Run: SUB-C134520		07/01/10 13:14		
Thorium 230		9.0	pCi/L	67		70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS, MSD, and all tracer recoveries are acceptable the batch is approved.										
Sample ID: C10061072-002CMSD	Sample Matrix Spike Duplicate					Run: SUB-C134520		07/01/10 13:14		
Thorium 230		13	pCi/L	101		70	130	38	41.1	
Sample ID: MB-RA-TH-ISO-1197	3	Method Blank				Run: SUB-C134520		07/02/10 08:32		
Thorium 230		0.02	pCi/L							U
Thorium 230 MDC		0.2	pCi/L							
Thorium 230 precision (±)		0.07	pCi/L							
Method: E907.0								Batch: C_26535		
Sample ID: R10060444-001I	Sample Matrix Spike					Run: SUB-C134650		07/07/10 11:11		
Thorium 230		9.1	pCi/L	79		70	130			
Sample ID: R10060444-001I	Sample Matrix Spike Duplicate					Run: SUB-C134650		07/07/10 11:12		
Thorium 230		11	pCi/L	94		70	130	17	54.2	
Sample ID: MB-26535	3	Method Blank				Run: SUB-C134650		07/07/10 11:12		
Thorium 230		-0.1	pCi/L							U
Thorium 230 MDC		0.4	pCi/L							
Thorium 230 precision (±)		0.2	pCi/L							
Sample ID: LCS1-26535	Laboratory Control Sample					Run: SUB-C134650		07/07/10 11:12		
Thorium 230		5.4	pCi/L	114		70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M Batch: C_PB-210-0729										
Sample ID: R10060444-002I Run: SUB-C134719										
Lead 210		Sample Matrix Spike								07/07/10 08:46
		210	pCi/L	82		70	130			
Sample ID: R10060444-002I Run: SUB-C134719										
Lead 210		Sample Matrix Spike Duplicate						0.3	18.3	07/07/10 08:46
		210	pCi/L	83		70	130			
Sample ID: MB-26518 Run: SUB-C134719										
Lead 210	3	Method Blank								07/07/10 08:46
		-1	pCi/L							U
Lead 210 precision (±)		10	pCi/L							
Lead 210 MDC		20	pCi/L							
Sample ID: LCS-26518 Run: SUB-C134719										
Lead 210		Laboratory Control Sample								07/07/10 08:46
		350	pCi/L	71		70	130			
Sample ID: LCS1-26535 Run: SUB-C134719										
Lead 210		Laboratory Control Sample								07/07/10 08:46
		410	pCi/L	76		70	130			
Method: E909.0M Batch: C_PB-210-0728										
Sample ID: C09120066-001AMS Run: SUB-C134817										
Lead 210		Sample Matrix Spike								07/12/10 10:22
		210	pCi/L	92		70	130			
Sample ID: C09120066-001AMSD Run: SUB-C134817										
Lead 210		Sample Matrix Spike Duplicate						13	17.3	07/12/10 12:24
		190	pCi/L	81		70	130			
Sample ID: MB-PB-210-0728 Run: SUB-C134817										
Lead 210	3	Method Blank								07/12/10 14:25
		2	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		5	pCi/L							
Sample ID: LCS-PB-210-0728 Run: SUB-C134817										
Lead 210		Laboratory Control Sample								07/12/10 16:27
		110	pCi/L	94		70	130			
Sample ID: LCS-PB-210-0728 Run: SUB-C134817										
Lead 210		Laboratory Control Sample								07/12/10 18:28
		98	pCi/L	87		70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 08/23/10
Work Order: R10060444

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0								Batch: C_PO210-0306		
Sample ID: R10060444-002K		Sample Matrix Spike			Run: SUB-C134590			07/06/10 09:18		
Polonium 210	31		pCi/L	95		70	130			
Sample ID: R10060444-002K		Sample Matrix Spike Duplicate			Run: SUB-C134590			07/06/10 09:18		
Polonium 210	31		pCi/L	96		70	130	0.5	57.1	
Sample ID: MB-PO210-0306		3 Method Blank			Run: SUB-C134590			07/06/10 09:18		
Polonium 210		-0.01	pCi/L							U
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.2	pCi/L							
Sample ID: LCS-PO210-0306		Laboratory Control Sample			Run: SUB-C134590			07/06/10 09:18		
Polonium 210	11		pCi/L	70		70	130			
Method: E912.0								Batch: C_PO210-0307		
Sample ID: MB-26518		3 Method Blank			Run: SUB-C134649			07/08/10 09:12		
Polonium 210		0.2	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		3	pCi/L							
Sample ID: LCS-26518		Laboratory Control Sample			Run: SUB-C134649			07/08/10 09:12		
Polonium 210	52		pCi/L	66		70	130			US
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, second LCS, and all tracer recoveries are acceptable the batch is approved.										
Sample ID: C10060928-003GMS		Sample Matrix Spike			Run: SUB-C134649			07/08/10 09:12		
Polonium 210	12		pCi/L	90		70	130			
Sample ID: C10060928-003GMSD		Sample Matrix Spike Duplicate			Run: SUB-C134649			07/08/10 09:12		
Polonium 210	16		pCi/L	117		70	130	25	60.5	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT. Provide as much information as possible.

Company Name: <u>Scott Env.</u> Report Mail Address: <u>Powder Mill, Scott Env.</u> Invoice Address: <u>Powder Mill, Scott Env.</u>		Project Name, PWS, Permit, Etc.: Contact Name: <u>Allen East</u> Invoice Contact & Phone:		Sample Origin: _____ State: _____ Email: _____		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>		Sampler: (Please Print) _____	
Special Report/Formats - ELL must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDI (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers: _____ Sample Type: AWS V B O Air Water Soils/Solids Vegetation Bioassay Other		ANALYSIS REQUESTED <u>Other Analyte</u>		SEE ATTACHED Normal Turnaround (TAT)	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 <u>08-09-21-01</u> Collection Date: <u>6-22-10</u> Collection Time: _____ 2 <u>08-09-21-02</u> Collection Date: <u>6-22-10</u> Collection Time: _____ 3 _____ 4 _____ 5 _____ 6 _____ 7 _____ 8 _____ 9 _____ 10 _____		MATRIX <u>water</u> <u>water</u>		R U S H Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: _____		Shipped by: _____ Cooler Digt: _____ Receipt Temp: <u>4.4</u> °C On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal: Y N Bottles/Coolers: B C Inhibit: Y N Signature Match: Y N		LABORATORY USE ONLY <u>AP060444-001</u> <u>622</u>	
Custody Record MUST be Signed Requisitioned by (print): <u>Allen East</u> Date/Time: <u>6-22-10 11:35</u> Signature: <u>[Signature]</u>		Received by (print): _____ Date/Time: _____ Signature: _____		Received by (print): _____ Date/Time: _____ Signature: _____		Received by (print): _____ Date/Time: _____ Signature: _____		Received by (print): _____ Date/Time: _____ Signature: _____	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 19, 2010

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10070459

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 3 samples for Powertech USA Inc on 7/27/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10070459-001	DB-09-21-01	07/27/10 0:00	07/27/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10070459-002	DB-09-21-02	07/27/10 0:00	07/27/10	Aqueous	Same As Above
R10070459-003	DB-09-21-02-Dup	07/27/10 0:00	07/27/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2010.10.19 14:44:53 -06:00



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10070459

Revised Date: 10/19/10

Report Date: 09/25/10

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002.

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Radon analysis was performed by the SDSHL
Comments imported for SUBBED Workorder: C10071156
PB210 ANALYSIS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

RA226 ANALYSIS

The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

End of comments imported for SUBBED Workorder: C10071156



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-001
Client Sample ID: DB-09-21-01

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	168	mg/L		5		A2320 B	08/05/10 11:59/mb
Carbonate as CO3	ND	mg/L		5		A2320 B	08/05/10 11:59/mb
Bicarbonate as HCO3	205	mg/L		5		A2320 B	08/05/10 11:59/mb
Calcium	94	mg/L	D	1		E200.7	08/02/10 16:26/eli-c
Chloride	7	mg/L		1		E300.0	07/28/10 23:00/jmh
Fluoride	0.4	mg/L		0.1		E300.0	07/28/10 23:00/jmh
Magnesium	34.9	mg/L		0.5		E200.7	08/02/10 16:26/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		A4500-NH3 G	08/04/10 13:51/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		E300.0	07/28/10 23:00/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		E300.0	07/28/10 23:00/jmh
Potassium	11.3	mg/L		0.5		E200.7	08/02/10 16:26/eli-c
Sodium	169	mg/L	D	1		E200.7	08/02/10 16:26/eli-c
Sulfate	534	mg/L	D	20		E300.0	07/28/10 22:07/jmh
Silica	9.3	mg/L		0.2		E200.7	08/02/10 16:26/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1320	umhos/cm		5.0		A2510 B	07/28/10 15:28/jmh
Oxidation-Reduction Potential	180	mV				A2580 B	08/03/10 16:00/jmh
pH	7.84	s.u.		0.01		A4500-H B	08/02/10 13:46/tb
Sodium Adsorption Ratio (SAR)	3.8	unitless		0.10		Calculation	08/30/10 10:46/ADM
Solids, Total Dissolved TDS @ 180 C	950	mg/L	D	10		A2540 C	07/29/10 14:10/mb
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	08/02/10 16:26/eli-c
Arsenic	ND	mg/L		0.001		E200.8	08/04/10 03:37/eli-c
Barium	ND	mg/L		0.1		E200.7	08/02/10 16:26/eli-c
Boron	0.1	mg/L		0.1		E200.7	08/02/10 16:26/eli-c
Cadmium	ND	mg/L		0.005		E200.8	08/04/10 03:37/eli-c
Chromium	ND	mg/L		0.05		E200.7	08/02/10 16:26/eli-c
Copper	ND	mg/L		0.01		E200.7	08/02/10 16:26/eli-c
Iron	ND	mg/L		0.03		E200.7	08/02/10 16:26/eli-c
Lead	ND	mg/L		0.001		E200.8	08/04/10 03:37/eli-c
Manganese	0.05	mg/L		0.01		E200.8	08/04/10 03:37/eli-c
Mercury	ND	mg/L		0.001		E200.8	08/04/10 03:37/eli-c
Molybdenum	ND	mg/L		0.1		E200.7	08/02/10 16:26/eli-c
Nickel	ND	mg/L		0.05		E200.7	08/02/10 16:26/eli-c
Selenium	ND	mg/L		0.001		A3114 B	08/04/10 16:35/eli-ca
Silver	ND	mg/L		0.005		E200.8	08/04/10 03:37/eli-c
Thorium 232	ND	mg/L		0.005		E200.8	08/06/10 09:19/eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-001
Client Sample ID: DB-09-21-01

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	0.0007	mg/L		0.0003		1 E200.8	08/04/10 03:37/eli-c
Vanadium	ND	mg/L		0.1		1 E200.8	08/04/10 03:37/eli-c
Zinc	0.01	mg/L		0.01		5 E200.7	08/02/10 16:26/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	08/11/10 01:13/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	08/04/10 14:48/eli-ca
Selenium-VI	ND	mg/L		0.001		1 A3114 B	08/04/10 17:03/eli-ca
RADIONUCLIDES - DISSOLVED							
Gross Alpha	6.7	pCi/L				1 E900.0	08/26/10 22:55/eli-ca
Gross Alpha precision (±)	4.0	pCi/L				1 E900.0	08/26/10 22:55/eli-ca
Gross Alpha MDC	6.1	pCi/L				1 E900.0	08/26/10 22:55/eli-ca
Gross Beta	17.1	pCi/L				1 E900.0	08/26/10 22:55/eli-ca
Gross Beta precision (±)	2.7	pCi/L				1 E900.0	08/26/10 22:55/eli-ca
Gross Beta MDC	4.0	pCi/L				1 E900.0	08/26/10 22:55/eli-ca
Lead 210	0.4	pCi/L	U			1 E909.0M	08/13/10 09:09/eli-cs
Lead 210 precision (±)	1.4	pCi/L				1 E909.0M	08/13/10 09:09/eli-cs
Lead 210 MDC	2.3	pCi/L				1 E909.0M	08/13/10 09:09/eli-cs
Polonium 210	0.076	pCi/L	U			1 E912.0	08/10/10 09:40/eli-ca
Polonium 210 MDC	0.61	pCi/L				1 E912.0	08/10/10 09:40/eli-ca
Polonium 210 precision (±)	0.30	pCi/L				1 E912.0	08/10/10 09:40/eli-ca
Radium 226	1.8	pCi/L				1 E903.0	08/09/10 13:47/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	08/09/10 13:47/eli-ca
Radium 226 MDC	0.2	pCi/L				1 E903.0	08/09/10 13:47/eli-ca
Thorium 230	0.04	pCi/L	U			1 E907.0	08/12/10 08:54/eli-c
Thorium 230 MDC	0.09	pCi/L				1 E907.0	08/12/10 08:54/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1 E907.0	08/12/10 08:54/eli-c
Gross Gamma	500	pCi/L				1 E901.1	08/04/10 07:00/eli-c
Gross Gamma precision (±)	130	pCi/L				1 E901.1	08/04/10 07:00/eli-c
- See Case Narrative regarding Pb210 analysis.							
RADIONUCLIDES - SUSPENDED							
Lead 210	-1	pCi/L	U			1 E909.0M	08/11/10 15:18/eli-cs
Lead 210 precision (±)	2.5	pCi/L				1 E909.0M	08/11/10 15:18/eli-cs
Lead 210 MDC	4.2	pCi/L				1 E909.0M	08/11/10 15:18/eli-cs
Polonium 210	-0.10	pCi/L	U			1 E912.0	08/10/10 12:20/eli-ca
Polonium 210 precision (±)	0.34	pCi/L				1 E912.0	08/10/10 12:20/eli-ca

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-001
Client Sample ID: DB-09-21-01

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Polonium 210 MDC	0.95	pCi/L					1	E912.0	08/10/10 12:20/eli-ca
Radium 226	-0.1	pCi/L	U				1	E903.0	08/10/10 14:32/eli-c
Radium 226 precision (±)	0.08	pCi/L					1	E903.0	08/10/10 14:32/eli-c
Radium 226 MDC	0.2	pCi/L					1	E903.0	08/10/10 14:32/eli-c
Thorium 230	0.2	pCi/L	U				1	E907.0	08/06/10 08:44/eli-c
Thorium 230 precision (±)	0.2	pCi/L					1	E907.0	08/06/10 08:44/eli-c
- See Case Narrative regarding Pb210 analysis.									
RADIONUCLIDES - TOTAL									
Radon 222	247	pCi/L		100			1	D5072-92	07/29/10 00:00/lkl
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	08/06/10 20:39/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	08/06/10 20:39/eli-c
Barium	ND	mg/L		0.1			2	E200.7	08/05/10 11:18/eli-c
Beryllium	ND	mg/L		0.001			1	E200.8	08/06/10 20:39/eli-c
Boron	ND	mg/L		0.1			2	E200.7	08/05/10 11:18/eli-c
Cadmium	ND	mg/L		0.005			2	E200.7	08/05/10 11:18/eli-c
Chromium	ND	mg/L		0.05			1	E200.8	08/06/10 20:39/eli-c
Copper	ND	mg/L		0.01			1	E200.8	08/06/10 20:39/eli-c
Iron	0.25	mg/L		0.03			2	E200.7	08/05/10 11:18/eli-c
Lead	ND	mg/L		0.001			1	E200.8	08/06/10 20:39/eli-c
Manganese	0.05	mg/L		0.01			2	E200.7	08/05/10 11:18/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	07/30/10 15:42/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	08/05/10 11:18/eli-c
Nickel	ND	mg/L		0.05			1	E200.8	08/06/10 20:39/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	08/06/10 20:39/eli-c
Silver	ND	mg/L		0.005			2	E200.7	08/05/10 11:18/eli-c
Strontium	2.8	mg/L		0.1			1	E200.8	08/06/10 20:39/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	08/06/10 20:39/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	08/06/10 20:39/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	08/06/10 20:39/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.76	%					1	A1030 E	08/30/10 00:00/lkl
Anions	14.7	meq/L					1	A1030 E	08/30/10 00:00/lkl
Cations	15.2	meq/L					1	A1030 E	08/30/10 00:00/lkl
Solids, Total Dissolved Calculated	977	mg/L					1	A1030 E	08/30/10 00:00/lkl
TDS Balance (0.80 - 1.20)	0.970						1	A1030 E	08/30/10 00:00/lkl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-002
Client Sample ID: DB-09-21-02

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	200	mg/L		5		1	A2320 B	08/05/10 12:01/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/05/10 12:01/mb
Bicarbonate as HCO3	244	mg/L		5		1	A2320 B	08/05/10 12:01/mb
Calcium	163	mg/L	D	1		5	E200.7	08/02/10 16:30/eli-c
Chloride	9	mg/L		1		1	E300.0	07/29/10 00:11/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/29/10 00:11/jmh
Magnesium	47.4	mg/L		0.5		5	E200.7	08/02/10 16:30/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	08/04/10 14:13/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/29/10 00:11/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/29/10 00:11/jmh
Potassium	11.5	mg/L		0.5		5	E200.7	08/02/10 16:30/eli-c
Sodium	132	mg/L	D	1		5	E200.7	08/02/10 16:30/eli-c
Sulfate	658	mg/L	D	20		20	E300.0	07/28/10 23:18/jmh
Silica	8.5	mg/L		0.2		5	E200.7	08/02/10 16:30/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1540	umhos/cm		5.0		1	A2510 B	07/28/10 15:29/jmh
Oxidation-Reduction Potential	220	mV				1	A2580 B	08/03/10 16:00/jmh
pH	7.51	s.u.		0.01		1	A4500-H B	08/02/10 13:52/tb
Sodium Adsorption Ratio (SAR)	2.4	unitless		0.10		1	Calculation	08/30/10 10:46/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C	07/29/10 14:11/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	08/02/10 16:30/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	08/06/10 09:24/eli-b
Barium	ND	mg/L		0.1		5	E200.7	08/02/10 16:30/eli-c
Boron	ND	mg/L		0.1		5	E200.7	08/02/10 16:30/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	08/06/10 13:12/eli-b
Chromium	ND	mg/L		0.05		5	E200.7	08/02/10 16:30/eli-c
Copper	ND	mg/L		0.01		5	E200.7	08/02/10 16:30/eli-c
Iron	ND	mg/L		0.03		5	E200.7	08/02/10 16:30/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/06/10 09:24/eli-b
Manganese	0.56	mg/L		0.01		5	E200.7	08/02/10 16:30/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/06/10 09:24/eli-b
Molybdenum	ND	mg/L		0.1		5	E200.7	08/02/10 16:30/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	08/02/10 16:30/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/04/10 16:42/eli-ca
Silver	ND	mg/L		0.005		2	E200.7	08/06/10 13:12/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	08/06/10 09:24/eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-002
Client Sample ID: DB-09-21-02

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0069	mg/L		0.0003		1	E200.8	08/06/10 09:24/eli-b
Vanadium	ND	mg/L		0.1		2	E200.7	08/06/10 13:12/eli-b
Zinc	0.02	mg/L		0.01		5	E200.7	08/02/10 16:30/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	08/11/10 01:17/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/04/10 14:55/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/04/10 17:03/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	31.6	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Alpha precision (±)	6.2	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Alpha MDC	7.3	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta	27.2	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta MDC	5.2	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Lead 210	-1	pCi/L	U			1	E909.0M	08/13/10 09:09/eli-cs
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	08/13/10 09:09/eli-cs
Lead 210 MDC	2.3	pCi/L				1	E909.0M	08/13/10 09:09/eli-cs
Polonium 210	0.062	pCi/L	U			1	E912.0	08/10/10 09:40/eli-ca
Polonium 210 MDC	0.62	pCi/L				1	E912.0	08/10/10 09:40/eli-ca
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	08/10/10 09:40/eli-ca
Radium 226	2.6	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Thorium 230	0.04	pCi/L	U			1	E907.0	08/12/10 13:14/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	08/12/10 13:14/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	08/12/10 13:14/eli-c
Gross Gamma	980	pCi/L				1	E901.1	08/04/10 07:00/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	08/04/10 07:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-2	pCi/L	U			1	E909.0M	08/11/10 15:18/eli-cs
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	08/11/10 15:18/eli-cs
Lead 210 MDC	4.2	pCi/L				1	E909.0M	08/11/10 15:18/eli-cs
Polonium 210	0.0	pCi/L	U			1	E912.0	08/10/10 12:20/eli-ca
Polonium 210 precision (±)	0.20	pCi/L				1	E912.0	08/10/10 12:20/eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-002
Client Sample ID: DB-09-21-02

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Polonium 210 MDC	0.48	pCi/L				1 E912.0	08/10/10 12:20/eli-ca
Radium 226	-0.1	pCi/L	U			1 E903.0	08/10/10 14:32/eli-c
Radium 226 precision (±)	0.08	pCi/L				1 E903.0	08/10/10 14:32/eli-c
Radium 226 MDC	0.2	pCi/L				1 E903.0	08/10/10 14:32/eli-c
Thorium 230	-0.2	pCi/L	U			1 E907.0	08/06/10 08:44/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1 E907.0	08/06/10 08:44/eli-c
- See Case Narrative regarding Pb210 analysis.							
RADIONUCLIDES - TOTAL							
Radon 222	373	pCi/L		100		1 D5072-92	07/29/10 00:00/kl
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	08/06/10 20:45/eli-c
Arsenic	0.001	mg/L		0.001		1 E200.8	08/06/10 20:45/eli-c
Barium	ND	mg/L		0.1		2 E200.7	08/05/10 11:22/eli-c
Beryllium	ND	mg/L		0.001		2 E200.7	08/05/10 11:22/eli-c
Boron	ND	mg/L		0.1		2 E200.7	08/05/10 11:22/eli-c
Cadmium	ND	mg/L		0.005		2 E200.7	08/05/10 11:22/eli-c
Chromium	ND	mg/L		0.05		2 E200.7	08/05/10 11:22/eli-c
Copper	ND	mg/L		0.01		2 E200.7	08/05/10 11:22/eli-c
Iron	ND	mg/L		0.03		2 E200.7	08/05/10 11:22/eli-c
Lead	ND	mg/L		0.001		1 E200.8	08/06/10 20:45/eli-c
Manganese	0.56	mg/L		0.01		2 E200.7	08/05/10 11:22/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	07/30/10 15:46/eli-b
Molybdenum	ND	mg/L		0.1		2 E200.7	08/05/10 11:22/eli-c
Nickel	ND	mg/L		0.05		2 E200.7	08/05/10 11:22/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	08/06/10 20:45/eli-c
Silver	ND	mg/L		0.005		2 E200.7	08/05/10 11:22/eli-c
Strontium	2.3	mg/L		0.1		2 E200.7	08/05/10 11:22/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	08/06/10 20:45/eli-c
Uranium	0.0080	mg/L		0.0003		1 E200.8	08/06/10 20:45/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	08/06/10 20:45/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.400	%				1 A1030 E	08/30/10 00:00/kl
Anions	18.0	meq/L				1 A1030 E	08/30/10 00:00/kl
Cations	18.1	meq/L				1 A1030 E	08/30/10 00:00/kl
Solids, Total Dissolved Calculated	1160	mg/L				1 A1030 E	08/30/10 00:00/kl
TDS Balance (0.80 - 1.20)	1.00					1 A1030 E	08/30/10 00:00/kl

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-003
Client Sample ID: DB-09-21-02-Dup

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	198	mg/L		5		1	A2320 B	08/05/10 12:04/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/05/10 12:04/mb
Bicarbonate as HCO3	241	mg/L		5		1	A2320 B	08/05/10 12:04/mb
Calcium	167	mg/L	D	1		5	E200.7	08/02/10 16:34/eli-c
Chloride	9	mg/L		1		1	E300.0	07/29/10 00:46/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	07/29/10 00:46/jmh
Magnesium	47.4	mg/L		0.5		5	E200.7	08/02/10 16:34/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	08/04/10 14:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/29/10 00:46/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	07/29/10 00:46/jmh
Potassium	11.6	mg/L		0.5		5	E200.7	08/02/10 16:34/eli-c
Sodium	135	mg/L	D	1		5	E200.7	08/02/10 16:34/eli-c
Sulfate	659	mg/L	D	20		20	E300.0	07/29/10 00:29/jmh
Silica	8.5	mg/L		0.2		5	E200.7	08/02/10 16:34/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1530	umhos/cm		5.0		1	A2510 B	07/28/10 15:30/jmh
Oxidation-Reduction Potential	230	mV				1	A2580 B	08/03/10 16:00/jmh
pH	7.53	s.u.		0.01		1	A4500-H B	08/02/10 13:53/tb
Sodium Adsorption Ratio (SAR)	2.4	unitless		0.10		1	Calculation	08/30/10 10:46/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C	07/29/10 14:11/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	08/02/10 16:34/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	08/06/10 09:28/eli-b
Barium	ND	mg/L		0.1		5	E200.7	08/02/10 16:34/eli-c
Boron	ND	mg/L		0.1		5	E200.7	08/02/10 16:34/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	08/06/10 13:24/eli-b
Chromium	ND	mg/L		0.05		5	E200.7	08/02/10 16:34/eli-c
Copper	ND	mg/L		0.01		5	E200.7	08/02/10 16:34/eli-c
Iron	ND	mg/L		0.03		5	E200.7	08/02/10 16:34/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/06/10 09:28/eli-b
Manganese	0.56	mg/L		0.01		5	E200.7	08/02/10 16:34/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/06/10 09:28/eli-b
Molybdenum	ND	mg/L		0.1		5	E200.7	08/02/10 16:34/eli-c
Nickel	ND	mg/L		0.05		5	E200.7	08/02/10 16:34/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/04/10 16:44/eli-ca
Silver	ND	mg/L		0.005		2	E200.7	08/06/10 13:24/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	08/06/10 09:28/eli-b

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-003
Client Sample ID: DB-09-21-02-Dup

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0070	mg/L		0.0003		1	E200.8	08/06/10 09:28/eli-b
Vanadium	ND	mg/L		0.1		2	E200.7	08/06/10 13:24/eli-b
Zinc	0.01	mg/L		0.01		5	E200.7	08/02/10 16:34/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	08/11/10 01:21/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/04/10 15:00/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/04/10 17:03/eli-ca
RADIONUCLIDES - DISSOLVED								
Gross Alpha	33.5	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Alpha precision (±)	6.3	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Alpha MDC	7.3	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta	29.2	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Gross Beta MDC	5.2	pCi/L				1	E900.0	08/26/10 22:55/eli-ca
Lead 210	-1	pCi/L	U			1	E909.0M	08/13/10 09:09/eli-cs
Lead 210 precision (±)	1.4	pCi/L				1	E909.0M	08/13/10 09:09/eli-cs
Lead 210 MDC	2.3	pCi/L				1	E909.0M	08/13/10 09:09/eli-cs
Polonium 210	-0.040	pCi/L	U			1	E912.0	08/10/10 09:40/eli-ca
Polonium 210 MDC	0.77	pCi/L				1	E912.0	08/10/10 09:40/eli-ca
Polonium 210 precision (±)	0.28	pCi/L				1	E912.0	08/10/10 09:40/eli-ca
Radium 226	2.6	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	08/09/10 13:47/eli-ca
Thorium 230	0.02	pCi/L	U			1	E907.0	08/12/10 13:14/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	08/12/10 13:14/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	08/12/10 13:14/eli-c
Gross Gamma	940	pCi/L				1	E901.1	08/04/10 07:00/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	08/04/10 07:00/eli-c
- See Case Narrative regarding Pb210 analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-3	pCi/L	U			1	E909.0M	08/11/10 15:18/eli-cs
Lead 210 precision (±)	2.5	pCi/L				1	E909.0M	08/11/10 15:18/eli-cs
Lead 210 MDC	4.2	pCi/L				1	E909.0M	08/11/10 15:18/eli-cs
Polonium 210	0.22	pCi/L	U			1	E912.0	08/10/10 12:20/eli-ca
Polonium 210 precision (±)	0.42	pCi/L				1	E912.0	08/10/10 12:20/eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-003
Client Sample ID: DB-09-21-02-Dup

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Polonium 210 MDC	0.66	pCi/L					1	E912.0	08/10/10 12:20/eli-ca
Radium 226	-0.09	pCi/L	U				1	E903.0	08/10/10 14:32/eli-c
Radium 226 precision (±)	0.1	pCi/L					1	E903.0	08/10/10 14:32/eli-c
Radium 226 MDC	0.3	pCi/L					1	E903.0	08/10/10 14:32/eli-c
Thorium 230	-0.1	pCi/L	U				1	E907.0	08/06/10 08:44/eli-c
Thorium 230 precision (±)	0.09	pCi/L					1	E907.0	08/06/10 08:44/eli-c
- See Case Narrative regarding Pb210 analysis.									
- See Case Narrative regarding Ra226 analysis.									
RADIONUCLIDES - TOTAL									
Radon 222	388	pCi/L		100			1	D5072-92	07/29/10 00:00/lkl
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	08/06/10 21:19/eli-c
Arsenic	0.001	mg/L		0.001			1	E200.8	08/06/10 21:19/eli-c
Barium	ND	mg/L		0.1			2	E200.7	08/05/10 11:26/eli-c
Beryllium	ND	mg/L		0.001			2	E200.7	08/05/10 11:26/eli-c
Boron	ND	mg/L		0.1			2	E200.7	08/05/10 11:26/eli-c
Cadmium	ND	mg/L		0.005			2	E200.7	08/05/10 11:26/eli-c
Chromium	ND	mg/L		0.05			2	E200.7	08/05/10 11:26/eli-c
Copper	ND	mg/L		0.01			2	E200.7	08/05/10 11:26/eli-c
Iron	ND	mg/L		0.03			2	E200.7	08/05/10 11:26/eli-c
Lead	ND	mg/L		0.001			1	E200.8	08/06/10 21:19/eli-c
Manganese	0.56	mg/L		0.01			2	E200.7	08/05/10 11:26/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	07/30/10 15:48/eli-b
Molybdenum	ND	mg/L		0.1			2	E200.7	08/05/10 11:26/eli-c
Nickel	ND	mg/L		0.05			2	E200.7	08/05/10 11:26/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	08/06/10 21:19/eli-c
Silver	ND	mg/L		0.005			2	E200.7	08/05/10 11:26/eli-c
Strontium	2.3	mg/L		0.1			2	E200.7	08/05/10 11:26/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	08/06/10 21:19/eli-c
Uranium	0.0081	mg/L		0.0003			1	E200.8	08/06/10 21:19/eli-c
Zinc	ND	mg/L		0.01			1	E200.8	08/06/10 21:19/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.38	%					1	A1030 E	08/30/10 00:00/lkl
Anions	17.9	meq/L					1	A1030 E	08/30/10 00:00/lkl
Cations	18.4	meq/L					1	A1030 E	08/30/10 00:00/lkl
Solids, Total Dissolved Calculated	1170	mg/L					1	A1030 E	08/30/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.00						1	A1030 E	08/30/10 00:00/lkl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10070459-003
Client Sample ID: DB-09-21-02-Dup

Revised Date: 10/19/10
Report Date: 09/25/10
Collection Date: 07/27/10
Date Received: 07/27/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/	DF	Method	Analysis Date / By
					QCL			

DATA QUALITY

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Revised Date: 10/19/10

Client: Powertech USA Inc

Report Date: 09/25/10

Project: Dewey Groundwater Sampling

Work Order: R10070459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 100805A-ALK-SEL-W		
Sample ID: LCS1_100805A	Laboratory Control Sample						Run: PH_COND1-R_100805A		08/05/10 10:56	
Alkalinity, Total as CaCO3	948		mg/L	5.0	95	90	110			
Sample ID: MBLK1_100805A	Method Blank						Run: PH_COND1-R_100805A		08/05/10 10:58	
Alkalinity, Total as CaCO3	ND		mg/L	3						
Sample ID: R10070420-003AMS	Sample Matrix Spike						Run: PH_COND1-R_100805A		08/05/10 11:46	
Alkalinity, Total as CaCO3	272		mg/L	5.0	89	80	120			
Sample ID: R10070420-003AMSD	Sample Matrix Spike Duplicate						Run: PH_COND1-R_100805A		08/05/10 11:47	
Alkalinity, Total as CaCO3	286		mg/L	5.0	102	80	120	5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Batch: 100728_1_COND-PROBE-W		
Sample ID: LCS1-1_100728		Laboratory Control Sample					Run: PH_COND2-R_100728A			07/28/10 15:20
Conductivity @ 25 C		151	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_100728		Laboratory Control Sample					Run: PH_COND2-R_100728A			07/28/10 15:21
Conductivity @ 25 C		5020	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_100728		Laboratory Control Sample					Run: PH_COND2-R_100728A			07/28/10 15:21
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_100728		Method Blank					Run: PH_COND2-R_100728A			07/28/10 15:22
Conductivity @ 25 C		ND	umhos/cm	5						
Sample ID: R10070321-001BDUP		Sample Duplicate					Run: PH_COND2-R_100728A			07/28/10 15:24
Conductivity @ 25 C		501	umhos/cm	5.0				0.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 100729A-SLDS-TDS-W		
Sample ID: LCS1_100729A		Laboratory Control Sample			Run: BAL-4-R_100729A			07/29/10 14:01		
Solids, Total Dissolved TDS @ 180 C		210	mg/L	10	103	90	110			
Sample ID: MBLK1_100729A		Method Blank			Run: BAL-4-R_100729A			07/29/10 14:02		
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	5						
Sample ID: R10070494-002AMS		Sample Matrix Spike			Run: BAL-4-R_100729A			07/29/10 14:15		
Solids, Total Dissolved TDS @ 180 C		1100	mg/L	10	103	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 100803-ORP-ISE-W		
Sample ID: LCS		Laboratory Control Sample			Run: PH_COND1-R_100803A			08/03/10 16:00		
Oxidation-Reduction Potential		490	mV	102		95	105			
Sample ID: R10070459-001F		Sample Duplicate			Run: PH_COND1-R_100803A			08/03/10 16:00		
Oxidation-Reduction Potential		180	mV					0.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 100802_1_PH-W		
Sample ID: LCS_pH-1_100802		Laboratory Control Sample			Run: PH_COND2-R_100802A			08/02/10 13:42		
pH		7.42	s.u.	0.010	100	98.55	101.45			
Sample ID: R10070459-001ADUP		Sample Duplicate			Run: PH_COND2-R_100802A			08/02/10 13:50		
pH		7.88	s.u.	0.010				0.5	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										
Batch: A2010-08-04_2_NH3_01										
Sample ID: MBLK-2		Method Blank								
Nitrogen, Ammonia as N		ND	mg/L	0.01						Run: TECHAA2-R_100804A 08/04/10 10:46
Sample ID: LFB-3		Laboratory Fortified Blank								
Nitrogen, Ammonia as N		0.26	mg/L	0.10	102	90	110			Run: TECHAA2-R_100804A 08/04/10 11:14
Sample ID: R10070459-001BMS		Sample Matrix Spike								
Nitrogen, Ammonia as N		0.34	mg/L	0.10	94	80	120			Run: TECHAA2-R_100804A 08/04/10 13:52
Sample ID: R10070459-001BMSD		Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N		0.37	mg/L	0.10	103	80	120	6.5	10	Run: TECHAA2-R_100804A 08/04/10 13:53
Sample ID: R10070462-005CMS		Sample Matrix Spike								
Nitrogen, Ammonia as N		0.22	mg/L	0.10	89	80	120			Run: TECHAA2-R_100804A 08/04/10 14:07
Sample ID: R10070462-005CMSD		Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N		0.23	mg/L	0.10	91	80	120	2.7	10	Run: TECHAA2-R_100804A 08/04/10 14:08

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: C_R135591										
Sample ID: MB-100802A	15	Method Blank				Run: SUB-C135591			08/02/10 12:52	
Silicon		ND	mg/L	0.007						
Aluminum		ND	mg/L	0.01						
Barium		ND	mg/L	0.0005						
Boron		ND	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.002						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Zinc		ND	mg/L	0.001						
Sample ID: LFB-100802A	15	Laboratory Fortified Blank				Run: SUB-C135591			08/02/10 12:56	
Silicon		0.45	mg/L	0.10	96	85	115			
Aluminum		0.98	mg/L	0.10	98	85	115			
Barium		0.97	mg/L	0.10	97	85	115			
Boron		0.99	mg/L	0.10	99	85	115			
Calcium		48	mg/L	0.50	97	85	115			
Chromium		0.98	mg/L	0.050	98	85	115			
Copper		0.99	mg/L	0.010	99	85	115			
Iron		0.99	mg/L	0.030	99	85	115			
Magnesium		48	mg/L	0.50	96	85	115			
Manganese		0.98	mg/L	0.010	98	85	115			
Molybdenum		0.99	mg/L	0.10	99	85	115			
Nickel		0.99	mg/L	0.050	99	85	115			
Potassium		46	mg/L	0.50	93	85	115			
Sodium		49	mg/L	0.50	98	85	115			
Zinc		1.0	mg/L	0.010	101	85	115			
Sample ID: C10070457-001BMS2	15	Sample Matrix Spike				Run: SUB-C135591			08/02/10 13:57	
Aluminum		2.04	mg/L	0.10	100	70	130			
Barium		2.00	mg/L	0.10	97	70	130			
Boron		2.12	mg/L	0.10	98	70	130			
Chromium		1.99	mg/L	0.050	98	70	130			
Copper		2.01	mg/L	0.010	98	70	130			
Iron		2.01	mg/L	0.030	98	70	130			
Manganese		1.96	mg/L	0.010	96	70	130			
Molybdenum		1.99	mg/L	0.10	98	70	130			
Nickel		2.00	mg/L	0.050	98	70	130			
Silicon		5.53	mg/L	0.10		70	130			A
Zinc		2.06	mg/L	0.010	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7											
Batch: C_R135591											
Sample ID: C10070457-001BMS2	15	Sample Matrix Spike			Run: SUB-C135591			08/02/10 13:57			
Calcium		109	mg/L	1.0	98	70	130				
Magnesium		99.8	mg/L	1.0	97	70	130				
Potassium		100	mg/L	1.0	95	70	130				
Sodium		224	mg/L	1.0	101	70	130				
Sample ID: C10070457-001BMSD2	15	Sample Matrix Spike Duplicate			Run: SUB-C135591			08/02/10 14:01			
Aluminum		2.04	mg/L	0.10	100	70	130	0	20		
Barium		2.02	mg/L	0.10	98	70	130	1	20		
Boron		2.13	mg/L	0.10	99	70	130	0.6	20		
Chromium		2.00	mg/L	0.050	98	70	130	0.4	20		
Copper		2.01	mg/L	0.010	98	70	130	0.1	20		
Iron		2.02	mg/L	0.030	99	70	130	0.6	20		
Manganese		1.99	mg/L	0.010	97	70	130	1.4	20		
Molybdenum		1.99	mg/L	0.10	98	70	130	0	20		
Nickel		1.97	mg/L	0.050	97	70	130	1.1	20		
Silicon		5.54	mg/L	0.10		70	130	0.3	20	A	
Zinc		2.07	mg/L	0.010	100	70	130	0.4	20		
Calcium		110	mg/L	1.0	99	70	130	0.6	20		
Magnesium		103	mg/L	1.0	100	70	130	2.8	20		
Potassium		99.6	mg/L	1.0	94	70	130	0.9	20		
Sodium		226	mg/L	1.0	103	70	130	0.7	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: C_R135754										
Sample ID: MB-100804A	12	Method Blank		Run: SUB-C135754			08/04/10 12:48			
Barium		ND	mg/L	0.0005						
Beryllium		ND	mg/L	0.0002						
Boron		ND	mg/L	0.009						
Cadmium		ND	mg/L	0.001						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		0.002	mg/L	0.002						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Silver		ND	mg/L	0.001						
Strontium		ND	mg/L	0.0002						
Sample ID: LFB-100804A	12	Laboratory Fortified Blank		Run: SUB-C135754			08/04/10 12:52			
Barium		0.97	mg/L	0.10	97	85	115			
Beryllium		1.00	mg/L	0.010	100	85	115			
Boron		0.99	mg/L	0.10	99	85	115			
Cadmium		1.0	mg/L	0.010	101	85	115			
Chromium		0.97	mg/L	0.050	97	85	115			
Copper		0.98	mg/L	0.010	98	85	115			
Iron		1.00	mg/L	0.030	99	85	115			
Manganese		0.96	mg/L	0.010	96	85	115			
Molybdenum		0.99	mg/L	0.10	99	85	115			
Nickel		0.96	mg/L	0.050	96	85	115			
Silver		0.97	mg/L	0.010	97	85	115			
Strontium		0.98	mg/L	0.10	98	85	115			
Sample ID: C10070817-001BMS2	12	Sample Matrix Spike		Run: SUB-C135754			08/04/10 13:44			
Barium		2.07	mg/L	0.10	97	70	130			
Beryllium		1.99	mg/L	0.010	98	70	130			
Boron		2.05	mg/L	0.10	99	70	130			
Cadmium		2.06	mg/L	0.010	101	70	130			
Chromium		1.96	mg/L	0.050	96	70	130			
Copper		2.00	mg/L	0.010	98	70	130			
Iron		2.04	mg/L	0.030	97	70	130			
Manganese		2.01	mg/L	0.010	94	70	130			
Molybdenum		1.98	mg/L	0.10	97	70	130			
Nickel		1.92	mg/L	0.050	94	70	130			
Silver		1.95	mg/L	0.010	96	70	130			
Strontium		2.20	mg/L	0.10	98	70	130			
Sample ID: C10070817-001BMSD2	12	Sample Matrix Spike Duplicate		Run: SUB-C135754			08/04/10 13:49			
Barium		2.06	mg/L	0.10	97	70	130	0.5	20	
Beryllium		2.00	mg/L	0.010	98	70	130	0.4	20	
Boron		2.05	mg/L	0.10	99	70	130	0	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R135754
Sample ID: C10070817-001BMSD2	12	Sample Matrix Spike Duplicate			Run: SUB-C135754				08/04/10 13:49	
Cadmium		2.02	mg/L	0.010	99	70	130	1.7	20	
Chromium		1.97	mg/L	0.050	97	70	130	0.3	20	
Copper		1.98	mg/L	0.010	97	70	130	0.6	20	
Iron		2.05	mg/L	0.030	98	70	130	0.4	20	
Manganese		2.03	mg/L	0.010	95	70	130	0.7	20	
Molybdenum		1.99	mg/L	0.10	98	70	130	0.7	20	
Nickel		1.96	mg/L	0.050	96	70	130	2.5	20	
Silver		1.94	mg/L	0.010	95	70	130	0.3	20	
Strontium		2.20	mg/L	0.10	98	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: C_R135663										
Sample ID: LRB	15	Method Blank				Run: SUB-C135663				08/03/10 12:33
Arsenic		9E-05	mg/L	6E-05						
Beryllium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	1E-05						
Chromium		ND	mg/L	4E-05						
Copper		0.0001	mg/L	7E-05						
Lead		ND	mg/L	3E-05						
Manganese		ND	mg/L	5E-05						
Mercury		ND	mg/L	8E-05						
Nickel		ND	mg/L	0.0007						
Selenium		0.0007	mg/L	0.0002						
Silver		5E-05	mg/L	3E-05						
Strontium		ND	mg/L	3E-05						
Uranium		ND	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Zinc		0.0003	mg/L	0.0003						
Sample ID: LFB	15	Laboratory Fortified Blank				Run: SUB-C135663				08/03/10 12:39
Arsenic		0.0512	mg/L	0.0010	102	85	115			
Beryllium		0.0526	mg/L	0.0010	105	85	115			
Cadmium		0.0521	mg/L	0.0010	104	85	115			
Chromium		0.0514	mg/L	0.0010	103	85	115			
Copper		0.0516	mg/L	0.0010	103	85	115			
Lead		0.0506	mg/L	0.0010	101	85	115			
Manganese		0.0516	mg/L	0.0010	103	85	115			
Mercury		0.00510	mg/L	0.0010	102	85	115			
Nickel		0.0518	mg/L	0.0010	104	85	115			
Selenium		0.0512	mg/L	0.0010	101	85	115			
Silver		0.0205	mg/L	0.0010	102	85	115			
Strontium		0.0504	mg/L	0.0010	101	85	115			
Uranium		0.0522	mg/L	0.00030	104	85	115			
Vanadium		0.0513	mg/L	0.0010	103	85	115			
Zinc		0.0542	mg/L	0.0010	108	85	115			
Sample ID: R10070459-001C	15	Post Digestion Spike				Run: SUB-C135663				08/04/10 04:11
Arsenic		0.0530	mg/L	0.0010	104	70	130			
Beryllium		0.0491	mg/L	0.010	98	70	130			
Cadmium		0.0494	mg/L	0.010	99	70	130			
Chromium		0.0491	mg/L	0.0010	98	70	130			
Copper		0.0477	mg/L	0.010	94	70	130			
Lead		0.0507	mg/L	0.050	101	70	130			
Manganese		0.101	mg/L	0.010	105	70	130			
Mercury		0.00511	mg/L	0.0010	102	70	130			
Nickel		0.0472	mg/L	0.0010	92	70	130			
Selenium		0.0507	mg/L	0.0010	101	70	130			
Silver		0.0157	mg/L	0.010	78	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R135663
Sample ID: R10070459-001C	15	Post Digestion Spike		Run: SUB-C135663				08/04/10 04:11		
Strontium		2.76	mg/L	0.10		70	130			A
Uranium		0.0547	mg/L	0.00030	108	70	130			
Vanadium		0.0510	mg/L	0.0010	102	70	130			
Zinc		0.0517	mg/L	0.010	97	70	130			
Sample ID: R10070459-001C	15	Post Digestion Spike Duplicate		Run: SUB-C135663				08/04/10 04:18		
Arsenic		0.0525	mg/L	0.0010	103	70	130	0.9	20	
Beryllium		0.0495	mg/L	0.010	99	70	130	0.8	20	
Cadmium		0.0488	mg/L	0.010	98	70	130	1.1	20	
Chromium		0.0491	mg/L	0.0010	98	70	130	0.1	20	
Copper		0.0476	mg/L	0.010	94	70	130	0.2	20	
Lead		0.0507	mg/L	0.050	101	70	130	0	20	
Manganese		0.101	mg/L	0.010	105	70	130	0.3	20	
Mercury		0.00520	mg/L	0.0010	104	70	130	1.7	20	
Nickel		0.0471	mg/L	0.0010	92	70	130	0.1	20	
Selenium		0.0506	mg/L	0.0010	101	70	130	0.2	20	
Silver		0.0172	mg/L	0.010	86	70	130	9.4	20	
Strontium		2.74	mg/L	0.10		70	130	0.5	20	A
Uranium		0.0548	mg/L	0.00030	108	70	130	0.1	20	
Vanadium		0.0512	mg/L	0.0010	102	70	130	0.4	20	
Zinc		0.0518	mg/L	0.010	97	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: C_R135811										
Sample ID: LRB	7	Method Blank				Run: SUB-C135811			08/06/10 12:51	
Antimony		ND	mg/L	7E-05						
Arsenic		ND	mg/L	6E-05						
Lead		ND	mg/L	3E-05						
Selenium		ND	mg/L	0.0002						
Thallium		ND	mg/L	1E-05						
Uranium		ND	mg/L	1E-05						
Zinc		ND	mg/L	0.0003						
Sample ID: LFB	7	Laboratory Fortified Blank				Run: SUB-C135811			08/06/10 12:58	
Antimony		0.0505	mg/L	0.0010	101	85	115			
Arsenic		0.0521	mg/L	0.0010	104	85	115			
Lead		0.0515	mg/L	0.0010	103	85	115			
Selenium		0.0516	mg/L	0.0010	103	85	115			
Thallium		0.0516	mg/L	0.0010	103	85	115			
Uranium		0.0500	mg/L	0.00030	100	85	115			
Zinc		0.0545	mg/L	0.0010	109	85	115			
Sample ID: C10071092-012AMS4	7	Post Digestion Spike				Run: SUB-C135811			08/06/10 15:01	
Antimony		0.0558	mg/L	0.050	112	70	130			
Arsenic		0.0638	mg/L	0.0010	106	70	130			
Lead		0.0514	mg/L	0.050	103	70	130			
Selenium		0.0560	mg/L	0.0010	106	70	130			
Thallium		0.0516	mg/L	0.10	103	70	130			
Uranium		0.0661	mg/L	0.00030	103	70	130			
Zinc		0.0538	mg/L	0.010	102	70	130			
Sample ID: C10071092-012AMS4	7	Post Digestion Spike				Run: SUB-C135811			08/06/10 19:17	
Antimony		0.0554	mg/L	0.050	111	70	130			
Arsenic		0.0616	mg/L	0.0010	103	70	130			
Lead		0.0503	mg/L	0.050	101	70	130			
Selenium		0.0527	mg/L	0.0010	100	70	130			
Thallium		0.0503	mg/L	0.0010	101	70	130			
Uranium		0.0646	mg/L	0.00030	100	70	130			
Zinc		0.0523	mg/L	0.010	99	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Revised Date: 10/19/10

Client: Powertech USA Inc

Report Date: 09/25/10

Project: Dewey Groundwater Sampling

Work Order: R10070459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: C_B_R151901										
Sample ID: LRB		Method Blank					Run: SUB-C135846			08/05/10 11:30
Thorium		0.001	mg/L	1E-05						
Sample ID: LFB		Laboratory Fortified Blank					Run: SUB-C135846			08/05/10 11:35
Thorium		0.0470	mg/L	0.0010	92	85	115			
Sample ID: B10062814-002CMS		Sample Matrix Spike					Run: SUB-C135846			08/06/10 08:46
Thorium		0.0482	mg/L	0.0050	95	70	130			
Sample ID: B10062814-002CMSD		Sample Matrix Spike Duplicate					Run: SUB-C135846			08/06/10 08:51
Thorium		0.0502	mg/L	0.0050	98	70	130	4	20	
Method: E200.8										
Batch: C_26896										
Sample ID: MB-26896		Method Blank					Run: SUB-C135977			08/11/10 01:00
Uranium		0.0003	mg/L	6E-05						
Sample ID: LCS2-26896		Laboratory Control Sample					Run: SUB-C135977			08/11/10 01:05
Uranium		0.0647	mg/L	0.00030	129	85	115			S
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.										
Sample ID: R10070459-003I		Sample Matrix Spike					Run: SUB-C135977			08/11/10 01:25
Uranium		0.0549	mg/L	0.00030	110	70	130			
Sample ID: R10070459-003I		Sample Matrix Spike Duplicate					Run: SUB-C135977			08/11/10 01:29
Uranium		0.0552	mg/L	0.00030	110	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1								Analytical Run: SUB-B151585		
Sample ID: QCS	Initial Calibration Verification Standard									
Mercury		0.0020	mg/L	0.0010	100	90	110			07/30/10 11:33
Method: E245.1								Batch: B_48008		
Sample ID: MB-48008	Method Blank									
Mercury		ND	mg/L	1E-05						Run: SUB-B151585 07/30/10 15:38
Sample ID: LCS-48008	Laboratory Control Sample									
Mercury		0.0022	mg/L	0.0010	108	85	115			Run: SUB-B151585 07/30/10 15:40
Sample ID: B10072906-001JMS	Sample Matrix Spike									
Mercury		0.0020	mg/L	0.0010	102	70	130			Run: SUB-B151585 07/30/10 15:43
Sample ID: B10072906-001JMSD	Sample Matrix Spike Duplicate									
Mercury		0.0021	mg/L	0.0010	105	70	130	2.9	30	Run: SUB-B151585 07/30/10 15:45

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Revised Date: 10/19/10

Client: Powertech USA Inc

Report Date: 09/25/10

Project: Dewey Groundwater Sampling

Work Order: R10070459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										
Analytical Run: DIONEX_100728A										
Sample ID: CCV072810-22	5	Continuing Calibration Verification Standard								07/28/10 18:18
Chloride		73.6	mg/L	1.00	98	90	110			
Fluoride		7.15	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N		7.00	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N		7.17	mg/L	0.10	95	90	110			
Sulfate		70.8	mg/L	1.0	94	90	110			
Sample ID: CCV072810-34	5	Continuing Calibration Verification Standard								07/28/10 22:25
Chloride		74.5	mg/L	1.00	99	90	110			
Fluoride		7.22	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N		7.14	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N		7.27	mg/L	0.10	97	90	110			
Sulfate		71.4	mg/L	1.0	95	90	110			
Method: E300.0										
Batch: R47210										
Sample ID: LFB072810-10	5	Laboratory Fortified Blank				Run: DIONEX_100728A			07/28/10 14:10	
Chloride		37.0	mg/L	1.00	92	90	110			
Fluoride		3.82	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N		3.74	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N		3.76	mg/L	0.10	94	90	110			
Sulfate		36.6	mg/L	1.0	91	90	110			
Sample ID: R10070459-002AMS	5	Sample Matrix Spike				Run: DIONEX_100728A			07/28/10 23:36	
Chloride		803	mg/L	20	96	90	110			
Fluoride		81.0	mg/L	2.0	97	90	110			
Nitrogen, Nitrate as N		78.9	mg/L	2.0	99	90	110			
Nitrogen, Nitrite as N		80.5	mg/L	2.0	101	90	110			
Sulfate		1420	mg/L	20	96	90	110			
Sample ID: R10070459-002AMSD	5	Sample Matrix Spike Duplicate				Run: DIONEX_100728A			07/28/10 23:53	
Chloride		806	mg/L	20	96	90	110	0.3	10	
Fluoride		81.4	mg/L	2.0	97	90	110	0.4	10	
Nitrogen, Nitrate as N		78.9	mg/L	2.0	99	90	110	0.1	10	
Nitrogen, Nitrite as N		79.2	mg/L	2.0	99	90	110	1.6	10	
Sulfate		1430	mg/L	20	97	90	110	0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0941		
Sample ID: MB-GrAB-0941	6	Method Blank				Run: SUB-C135796			08/05/10 23:18	
Gross Alpha		-1	pCi/L							U
Gross Alpha precision (±)		0.7	pCi/L							
Gross Alpha MDC		0.9	pCi/L							
Gross Beta		-2	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-0941		Laboratory Control Sample				Run: SUB-C135796			08/05/10 23:18	
Gross Alpha		100	pCi/L	102		70	130			
Sample ID: Cs137-GrAB-0941		Laboratory Control Sample				Run: SUB-C135796			08/05/10 23:18	
Gross Beta		78	pCi/L	89		70	130			
Sample ID: C10070657-001DMS		Sample Matrix Spike				Run: SUB-C135796			08/05/10 23:18	
Gross Alpha		124	pCi/L	118		70	130			
Sample ID: C10070657-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-C135796			08/05/10 23:18	
Gross Alpha		115	pCi/L	108		70	130	7.8	18.8	
Sample ID: C10070657-001DMS		Sample Matrix Spike				Run: SUB-C135796			08/05/10 23:18	
Gross Beta		80.3	pCi/L	87		70	130			
Sample ID: C10070657-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-C135796			08/05/10 23:18	
Gross Beta		86.4	pCi/L	94		70	130	7.3	16.3	
Sample ID: C10070781-002ADUP	6	Sample Duplicate				Run: SUB-C135796			08/06/10 11:25	
Gross Alpha		0.688	pCi/L					3800	598.8	UR
Gross Alpha precision (±)		2.18	pCi/L							
Gross Alpha MDC		3.61	pCi/L							
Gross Beta		6.31	pCi/L					33	86.9	
Gross Beta precision (±)		2.12	pCi/L							
Gross Beta MDC		3.37	pCi/L							

- For Gross Alpha the Sample and the Duplicate are both below the MDC; the RPD is acceptable.

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										
Batch: C_R135892										
Sample ID: LCS-R135892	3	Laboratory Control Sample					Run: SUB-C135892			08/04/10 07:00
Americium 241		700	pCi/L	20	87	70	130			
Cesium 137		960	pCi/L	20	95	70	130			
Potassium 40		6300	pCi/L	20	94	70	130			
Sample ID: MB-R135892	4	Method Blank					Run: SUB-C135892			08/04/10 07:00
Bismuth 214		ND	pCi/L							U
Lead 214		ND	pCi/L							U
Potassium 40		ND	pCi/L							U
Gross Gamma		ND	pCi/L							U
Sample ID: R10070459-001H	4	Sample Duplicate					Run: SUB-C135892			08/04/10 07:00
Thorium 234		550	pCi/L	20				10	30	
Thorium 234 precision (±)		140	pCi/L							
Gross Gamma		550	pCi/L					10	30	
Gross Gamma precision (±)		140	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										
Batch: C_RA226-4699										
Sample ID: C10070928-001GMS		Sample Matrix Spike								
Radium 226		16.5	pCi/L	105		70	130			08/09/10 10:42
Sample ID: C10070928-001GMSD		Sample Matrix Spike Duplicate								
Radium 226		14.5	pCi/L	93		70	130	12	24.1	08/09/10 10:42
Sample ID: MB-RA226-4699	3	Method Blank								
Radium 226		-0.1	pCi/L							08/09/10 13:47
Radium 226 precision (±)		0.07	pCi/L							U
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4699		Laboratory Control Sample								
Radium 226		8.3	pCi/L	107		70	130			08/09/10 13:47
Method: E903.0										
Batch: C_R135959										
Sample ID: C10070368-004AMS		Sample Matrix Spike								
Radium 226		0.00023	uCi/kg	91		70	130			08/10/10 12:50
Sample ID: C10070368-004AMSD		Sample Matrix Spike Duplicate								
Radium 226		0.00024	uCi/kg	95		70	130	3.2	23.6	08/10/10 12:50
Sample ID: LCS-26896		Laboratory Control Sample								
Radium 226		14	pCi/L	97		70	130			08/10/10 14:32
Sample ID: MB-26896	3	Method Blank								
Radium 226		-0.2	pCi/L							08/10/10 14:32
Radium 226 precision (±)		0.1	pCi/L							U
Radium 226 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: C_26896
Sample ID: R10070459-003I		Sample Matrix Spike								08/06/10 08:44
Thorium 230		10	pCi/L		97	70	130			
Sample ID: R10070459-003I		Sample Matrix Spike Duplicate								08/06/10 08:44
Thorium 230		14	pCi/L		120	70	130	32	53.8	
Sample ID: LCS-26896		Laboratory Control Sample								08/06/10 08:45
Thorium 230		4.3	pCi/L		88	70	130			
Sample ID: MB-26896	3	Method Blank								08/06/10 08:44
Thorium 230		-0.2	pCi/L							U
Thorium 230 MDC		0.3	pCi/L							
Thorium 230 precision (±)		0.1	pCi/L							
Method: E907.0										Batch: C_RA-TH-ISO-1222
Sample ID: LCS-RA-TH-ISO-1222		Laboratory Control Sample								08/12/10 08:54
Thorium 230		5.2	pCi/L		93	70	130			
Sample ID: C10071017-011DMS		Sample Matrix Spike								08/12/10 08:54
Thorium 230		16	pCi/L		97	70	130			
Sample ID: C10071017-011DMSD		Sample Matrix Spike Duplicate								08/12/10 08:54
Thorium 230		18	pCi/L		110	70	130	13	40.5	
Sample ID: MB-RA-TH-ISO-1222	3	Method Blank								08/12/10 13:14
Thorium 230		0.1	pCi/L							U
Thorium 230 MDC		0.1	pCi/L							
Thorium 230 precision (±)		0.09	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Revised Date: 10/19/10
Report Date: 09/25/10
Work Order: R10070459

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M								Batch: C_PB-210-0748		
Sample ID: MB-26896	3	Method Blank				Run: SUB-C136055			08/11/10 15:18	
Lead 210		-10	pCi/L							U
Lead 210 precision (±)		10	pCi/L							
Lead 210 MDC		20	pCi/L							
Sample ID: TAP WATER-MS		Sample Matrix Spike				Run: SUB-C136055			08/11/10 15:18	
Lead 210		590	pCi/L	109		70	130			
Sample ID: TAP WATER-MSD		Sample Matrix Spike Duplicate				Run: SUB-C136055			08/11/10 15:18	
Lead 210		590	pCi/L	109		70	130	0.1	15.3	
Sample ID: LCS-26896		Laboratory Control Sample				Run: SUB-C136055			08/11/10 15:18	
Lead 210		460	pCi/L	90		70	130			
Sample ID: LCS-PB-210-0748		Laboratory Control Sample				Run: SUB-C136055			08/11/10 15:18	
Lead 210		100	pCi/L	102		70	130			
Method: E909.0M								Batch: C_PB-210-0749		
Sample ID: MB-PB-210-0749	3	Method Blank				Run: SUB-C136095			08/13/10 09:09	
Lead 210		ND	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: C10071017-012DMS		Sample Matrix Spike				Run: SUB-C136095			08/13/10 09:09	
Lead 210		120	pCi/L	111		70	130			
Sample ID: C10071017-012DMSD		Sample Matrix Spike Duplicate				Run: SUB-C136095			08/13/10 09:09	
Lead 210		130	pCi/L	121		70	130	8.9	16.1	
Sample ID: LCS-PB-210-0749		Laboratory Control Sample				Run: SUB-C136095			08/13/10 09:09	
Lead 210		56	pCi/L	101		70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Revised Date: 10/19/10

Client: Powertech USA Inc

Report Date: 09/25/10

Project: Dewey Groundwater Sampling

Work Order: R10070459

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										
Batch: C_PO210-0308										
Sample ID: R10070459-002K		Sample Matrix Spike					Run: SUB-C135910			08/10/10 09:40
Polonium 210		35	pCi/L	106		70	130			
Sample ID: R10070459-002K		Sample Matrix Spike Duplicate					Run: SUB-C135910			08/10/10 09:40
Polonium 210		32	pCi/L	99		70	130	7.3	58.7	
Sample ID: MB-PO210-0308	3	Method Blank					Run: SUB-C135910			08/10/10 09:40
Polonium 210		0.7	pCi/L							
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.6	pCi/L							
Sample ID: LCS-PO210-0308		Laboratory Control Sample					Run: SUB-C135910			08/10/10 09:40
Polonium 210		18	pCi/L	109		70	130			
Method: E912.0										
Batch: C_R135911										
Sample ID: R10070459-003I		Sample Matrix Spike					Run: SUB-C135911			08/10/10 12:20
Polonium 210		47	pCi/L	120		70	130			
Sample ID: R10070459-003I		Sample Matrix Spike Duplicate					Run: SUB-C135911			08/10/10 12:20
Polonium 210		34	pCi/L	88		70	130	31	56.8	
Sample ID: LCS-26896		Laboratory Control Sample					Run: SUB-C135911			08/10/10 12:20
Polonium 210		74	pCi/L	96		70	130			
Sample ID: MB-26896	3	Method Blank					Run: SUB-C135911			08/10/10 12:20
Polonium 210		-0.05	pCi/L							U
Polonium 210 precision (±)		0.9	pCi/L							
Polonium 210 MDC		2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: South Env.
 Report Mail Address: Powertek, South Env.
 Invoice Address: Powertek
 Special Report/Formats:
 Project Name, PWS, Permit, Etc.: Powertek - Perry Road
 Contact Name: Allen Sack Phone/Fax: 673-4859
 Invoice Contact & Phone:
 State: EPA/State Compliance: Yes No
 Email: Sampler: (Please Print) Allen Sack
 Purchase Order: Quote/Bottle Order:

Number of Containers:
 Sample Type: AWS V B O DW
 Air Water Soils/Solids
 Vegetation Bioassay Other
 DW - Drinking Water
 DW EDD/EDT (Electronic Data)
 POTW/MWTP Format:
 State: LEVEL IV
 Other: NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED				Standard Turnaround (TAT)	RUSH	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Comments:	Shipped by:	Cooler Disl:	Receipt Temp <u>7.2</u> °C	On Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Custody Seal On Bottle: Y N On Cooler: Y N	Intact: Y N	Signature Match: Y N
				AW	W	S	B											
<u>DB-09-21-01</u>	<u>7-27-10</u>	<u> </u>	<u>water</u>															
<u>DB-09-21-02</u>	<u> " "</u>	<u> " "</u>	<u> " "</u>															
<u>DB-09-21-02 Dup.</u>	<u> " "</u>	<u> " "</u>	<u> " "</u>															
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Requester by (print): Allen Sack Date/Time: 7-27-10 4:23pm Signature: Allen Sack
 Retriever by (print): Date/Time: Signature:
 Received by (print): Steve Reidland Date/Time: 7-27-10 11:27 Signature: Steve Reidland
 Date/Time: Signature:

Requester by (print): Date/Time: Signature:
 Retriever by (print): Date/Time: Signature:
 Received by (print): Date/Time: Signature:
 Date/Time: Signature:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 15, 2010

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10080398

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. received the following 2 samples for Powertech USA Inc on 8/24/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10080398-001	DB-09-21-01	08/23/10 0:00	08/24/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10080398-002	DB-09-21-02	08/23/10 0:00	08/24/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2010.10.15 11:29:29 -06:00



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10080398

Report Date: 10/15/10

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002.

Comments imported for SUBBED Workorder: C10081031
RA226 ANALYSIS

The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on all samples due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.
End of comments imported for SUBBED Workorder: C10081031



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-001
Client Sample ID: DB-09-21-01

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	08/25/10 09:20/jmh
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/25/10 09:20/jmh
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	08/25/10 09:20/jmh
Calcium	97	mg/L	D	1		5	E200.7	09/01/10 20:46/eli-c
Chloride	8	mg/L	B	1		1	E300.0	08/25/10 13:15/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	08/25/10 13:15/jmh
Magnesium	35.4	mg/L		0.5		5	E200.7	09/01/10 20:46/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	08/31/10 16:21/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/25/10 13:15/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/25/10 13:15/jmh
Potassium	11.7	mg/L		0.5		5	E200.7	09/01/10 20:46/eli-c
Sodium	169	mg/L	D	1		5	E200.7	09/01/10 20:46/eli-c
Sulfate	575	mg/L	D	20		20	E300.0	08/25/10 12:58/jmh
Silica	8.5	mg/L		0.2		1	E200.8	09/01/10 10:12/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1330	umhos/cm		5.0		1	A2510 B	09/02/10 09:26/tb
Oxidation-Reduction Potential	270	mV				1	A2580 B	08/30/10 16:30/jmh
pH	7.88	s.u.		0.01		1	A4500-H B	08/30/10 09:05/tb
Sodium Adsorption Ratio (SAR)	3.7	unitless		0.10		1	Calculation	10/04/10 10:46/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	D	10		1	A2540 C	08/30/10 14:08/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	09/01/10 20:46/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	09/01/10 10:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/01/10 10:12/eli-c
Boron	ND	mg/L		0.1		1	E200.8	09/01/10 10:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/01/10 10:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/01/10 10:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/01/10 10:12/eli-c
Iron	ND	mg/L		0.03		1	E200.8	09/01/10 10:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/01/10 10:12/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	09/01/10 10:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/01/10 10:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	09/01/10 10:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/01/10 10:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/31/10 12:22/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/01/10 10:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/01/10 10:12/eli-c

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

B - The analyte was detected in the method blank.

D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-001
Client Sample ID: DB-09-21-01

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By	
				RL	QCL			
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/01/10 10:12/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/01/10 10:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/01/10 10:12/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/10/10 03:00/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/10 10:56/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/31/10 15:55/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	8.9	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Alpha precision (±)	3.4	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Alpha MDC	4.7	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta	15.5	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta MDC	4.4	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Lead 210	0.01	pCi/L	U			1	E909.0M	09/19/10 10:49/eli-cs
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	09/19/10 10:49/eli-cs
Lead 210 MDC	1.7	pCi/L				1	E909.0M	09/19/10 10:49/eli-cs
Polonium 210	0.088	pCi/L	U			1	E912.0	09/07/10 09:24/eli-ca
Polonium 210 MDC	0.56	pCi/L				1	E912.0	09/07/10 09:24/eli-ca
Polonium 210 precision (±)	0.29	pCi/L				1	E912.0	09/07/10 09:24/eli-ca
Radium 226	1.8	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Radium 226 MDC	0.09	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Thorium 230	0.09	pCi/L	U			1	E907.0	09/17/10 17:09/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	09/17/10 17:09/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/17/10 17:09/eli-c
Gross Gamma	710	pCi/L				1	E901.1	09/02/10 09:00/eli-c
Gross Gamma precision (±)	190	pCi/L				1	E901.1	09/02/10 09:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.08	pCi/L	U			1	E909.0M	09/30/10 05:46/eli-cs
Lead 210 precision (±)	0.8	pCi/L				1	E909.0M	09/30/10 05:46/eli-cs
Lead 210 MDC	1.3	pCi/L				1	E909.0M	09/30/10 05:46/eli-cs
Polonium 210	0.069	pCi/L	U			1	E912.0	09/15/10 11:06/eli-ca
Polonium 210 precision (±)	0.27	pCi/L				1	E912.0	09/15/10 11:06/eli-ca

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-001
Client Sample ID: DB-09-21-01

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.55	pCi/L				1	E912.0	09/15/10 11:06/eli-ca
Radium 226	-0.2	pCi/L	U			1	E903.0	09/15/10 17:33/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	09/15/10 17:33/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	09/15/10 17:33/eli-c
Thorium 230	-0.03	pCi/L	U			1	E907.0	09/13/10 13:26/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	09/13/10 13:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/13/10 13:26/eli-c
- See Case Narrative regarding Ra226 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	238	pCi/L		100		1	D5072-92	08/25/10 00:00/kl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	08/31/10 23:52/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	08/31/10 23:52/eli-c
Barium	ND	mg/L		0.1		1	E200.8	08/31/10 23:52/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	08/31/10 23:52/eli-c
Boron	ND	mg/L		0.1		1	E200.8	08/31/10 23:52/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/31/10 23:52/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	08/31/10 23:52/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/31/10 23:52/eli-c
Iron	0.28	mg/L		0.03		1	E200.8	08/31/10 23:52/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/31/10 23:52/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	08/31/10 23:52/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/26/10 15:58/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	08/31/10 23:52/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	08/31/10 23:52/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	08/31/10 23:52/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/31/10 23:52/eli-c
Strontium	2.7	mg/L		0.1		1	E200.8	08/31/10 23:52/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	08/31/10 23:52/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	08/31/10 23:52/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/31/10 23:52/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.500	%				1	A1030 E	10/14/10 00:00/kl
Anions	15.6	meq/L				1	A1030 E	10/14/10 00:00/kl
Cations	15.4	meq/L				1	A1030 E	10/14/10 00:00/kl
Solids, Total Dissolved Calculated	1020	mg/L				1	A1030 E	10/14/10 00:00/kl
TDS Balance (0.80 - 1.20)	1.04					1	A1030 E	10/14/10 00:00/kl

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-002
Client Sample ID: DB-09-21-02

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	194	mg/L		5		1	A2320 B	08/25/10 09:29/jmh
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/25/10 09:29/jmh
Bicarbonate as HCO3	236	mg/L		5		1	A2320 B	08/25/10 09:29/jmh
Calcium	170	mg/L	D	1		5	E200.7	09/01/10 20:42/eli-c
Chloride	10	mg/L	B	1		1	E300.0	08/25/10 13:51/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	08/25/10 13:51/jmh
Magnesium	48.7	mg/L		0.5		5	E200.7	09/01/10 20:42/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	08/31/10 16:23/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/25/10 13:51/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	08/25/10 13:51/jmh
Potassium	12.2	mg/L		0.5		5	E200.7	09/01/10 20:42/eli-c
Sodium	133	mg/L	D	1		5	E200.7	09/07/10 12:28/eli-c
Sulfate	708	mg/L	D	20		20	E300.0	08/25/10 13:33/jmh
Silica	7.9	mg/L		0.2		1	E200.8	09/01/10 10:19/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1540	umhos/cm		5.0		1	A2510 B	09/02/10 09:29/tb
Oxidation-Reduction Potential	280	mV				1	A2580 B	08/30/10 16:30/jmh
pH	7.53	s.u.		0.01		1	A4500-H B	08/30/10 09:19/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation	10/04/10 10:46/ADM
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	D	10		1	A2540 C	08/30/10 14:09/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	09/01/10 20:42/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	09/01/10 10:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/01/10 10:19/eli-c
Boron	ND	mg/L		0.1		1	E200.8	09/01/10 10:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/01/10 10:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/01/10 10:19/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/01/10 10:19/eli-c
Iron	ND	mg/L		0.03		1	E200.8	09/01/10 10:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/01/10 10:19/eli-c
Manganese	0.57	mg/L		0.01		1	E200.8	09/01/10 10:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/01/10 10:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	09/01/10 10:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/01/10 10:19/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	08/31/10 12:24/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/01/10 10:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/01/10 10:19/eli-c

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-002
Client Sample ID: DB-09-21-02

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
METALS - DISSOLVED								
Uranium	0.0087	mg/L		0.0003		1	E200.8	09/01/10 10:19/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/01/10 10:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/01/10 10:19/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	09/10/10 03:05/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/31/10 10:58/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/31/10 15:55/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	21.9	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Alpha precision (±)	4.9	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Alpha MDC	5.8	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta	25.2	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta precision (±)	4.3	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Gross Beta MDC	6.4	pCi/L				1	E900.0	09/10/10 03:35/eli-ca
Lead 210	-0.7	pCi/L	U			1	E909.0M	09/20/10 01:01/eli-cs
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	09/20/10 01:01/eli-cs
Lead 210 MDC	1.7	pCi/L				1	E909.0M	09/20/10 01:01/eli-cs
Polonium 210	-0.040	pCi/L	U			1	E912.0	09/07/10 09:24/eli-ca
Polonium 210 MDC	0.77	pCi/L				1	E912.0	09/07/10 09:24/eli-ca
Polonium 210 precision (±)	0.28	pCi/L				1	E912.0	09/07/10 09:24/eli-ca
Radium 226	2.7	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Radium 226 MDC	0.09	pCi/L				1	E903.0	09/07/10 23:20/eli-c
Thorium 230	-0.02	pCi/L	U			1	E907.0	09/17/10 17:09/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	09/17/10 17:09/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/17/10 17:09/eli-c
Gross Gamma	610	pCi/L				1	E901.1	09/02/10 09:00/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	09/02/10 09:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.02	pCi/L	U			1	E909.0M	09/30/10 12:21/eli-cs
Lead 210 precision (±)	0.8	pCi/L				1	E909.0M	09/30/10 12:21/eli-cs
Lead 210 MDC	1.3	pCi/L				1	E909.0M	09/30/10 12:21/eli-cs
Polonium 210	0.068	pCi/L	U			1	E912.0	09/15/10 11:06/eli-ca
Polonium 210 precision (±)	0.27	pCi/L				1	E912.0	09/15/10 11:06/eli-ca

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10080398-002
Client Sample ID: DB-09-21-02

Report Date: 10/15/10
Collection Date: 08/23/10
Date Received: 08/24/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.54	pCi/L				1	E912.0	09/15/10 11:06/eli-ca
Radium 226	-0.1	pCi/L	U			1	E903.0	09/15/10 17:33/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	09/15/10 17:33/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	09/15/10 17:33/eli-c
Thorium 230	-0.03	pCi/L	U			1	E907.0	09/13/10 13:26/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	09/13/10 13:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	09/13/10 13:26/eli-c
- See Case Narrative regarding Ra226 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	342	pCi/L		100		1	D5072-92	08/25/10 00:00/kl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	09/01/10 13:31/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	09/01/10 13:31/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/01/10 13:31/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	09/01/10 13:31/eli-c
Boron	ND	mg/L		0.1		1	E200.8	09/01/10 13:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/01/10 13:31/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/01/10 13:31/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/01/10 13:31/eli-c
Iron	ND	mg/L		0.03		1	E200.8	09/01/10 13:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/01/10 13:31/eli-c
Manganese	0.58	mg/L		0.01		1	E200.8	09/01/10 13:31/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	08/26/10 16:00/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	09/01/10 13:31/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/01/10 13:31/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	09/01/10 13:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/01/10 13:31/eli-c
Strontium	2.3	mg/L		0.1		1	E200.8	09/01/10 13:31/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	09/01/10 13:31/eli-c
Uranium	0.0083	mg/L		0.0003		1	E200.8	09/01/10 13:31/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/01/10 13:31/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.750	%				1	A1030 E	10/14/10 00:00/kl
Anions	18.9	meq/L				1	A1030 E	10/14/10 00:00/kl
Cations	18.6	meq/L				1	A1030 E	10/14/10 00:00/kl
Solids, Total Dissolved Calculated	1220	mg/L				1	A1030 E	10/14/10 00:00/kl
TDS Balance (0.80 - 1.20)	1.09					1	A1030 E	10/14/10 00:00/kl

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 100825A-ALK-SEL-W								
Sample ID: LCS1_100825A	Laboratory Control Sample			Run: PH_COND1-R_100825A		08/25/10 08:24				
Alkalinity, Total as CaCO3	952	mg/L	5.0	95	90	110				
Sample ID: MBLK1_100825A	Method Blank			Run: PH_COND1-R_100825A		08/25/10 08:27				
Alkalinity, Total as CaCO3	ND	mg/L	3							
Sample ID: R10080344-001AMS	Sample Matrix Spike			Run: PH_COND1-R_100825A		08/25/10 08:48				
Alkalinity, Total as CaCO3	152	mg/L	5.0	85	80	120				
Sample ID: R10080344-001AMSD	Sample Matrix Spike Duplicate			Run: PH_COND1-R_100825A		08/25/10 08:55				
Alkalinity, Total as CaCO3	150	mg/L	5.0	83	80	120	1.3	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Batch: 100902_1_COND-PROBE-W		
Sample ID: LCS1-1_100902		Laboratory Control Sample					Run: PH_COND2-R_100902A			09/02/10 08:50
Conductivity @ 25 C		150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_100902		Laboratory Control Sample					Run: PH_COND2-R_100902A			09/02/10 08:52
Conductivity @ 25 C		4980	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_100902		Laboratory Control Sample					Run: PH_COND2-R_100902A			09/02/10 08:54
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_100902		Method Blank					Run: PH_COND2-R_100902A			09/02/10 08:55
Conductivity @ 25 C		ND	umhos/cm	5						
Sample ID: R10080390-001BDUP		Sample Duplicate					Run: PH_COND2-R_100902A			09/02/10 09:23
Conductivity @ 25 C		265	umhos/cm	5.0				0.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 100830A-SLDS-TDS-W		
Sample ID: LCS1_100830A		Laboratory Control Sample			Run: BAL-4-R_100830C			08/30/10 14:07		
Solids, Total Dissolved TDS @ 180 C		240	mg/L	10	108	90	110			
Sample ID: MBLK1_100830A		Method Blank			Run: BAL-4-R_100830C			08/30/10 14:08		
Solids, Total Dissolved TDS @ 180 C		20	mg/L	5						
Sample ID: R10080398-001ADUP		Sample Duplicate			Run: BAL-4-R_100830C			08/30/10 14:08		
Solids, Total Dissolved TDS @ 180 C		1100	mg/L	10				0.9	5	
Sample ID: R10080480-003AMS		Sample Matrix Spike			Run: BAL-4-R_100830C			08/30/10 14:21		
Solids, Total Dissolved TDS @ 180 C		980	mg/L	10	110	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 100830-ORP-ISE-W		
Sample ID: LCS		Laboratory Control Sample			Run: PH_COND1-R_100830A			08/30/10 16:30		
Oxidation-Reduction Potential		490	mV		103	95	105			
Sample ID: R10080398-001F		Sample Duplicate			Run: PH_COND1-R_100830A			08/30/10 16:30		
Oxidation-Reduction Potential		280	mV					5.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										
Batch: C_27278										
Sample ID: LRB-27278		Method Blank					Run: SUB-C136665			08/31/10 10:51
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LFB-27278		Laboratory Fortified Blank					Run: SUB-C136665			08/31/10 10:54
Selenium-IV		0.054	mg/L	0.0010	108	90	110			
Sample ID: R10080398-002E		Sample Matrix Spike					Run: SUB-C136665			08/31/10 11:00
Selenium-IV		0.046	mg/L	0.0010	92	85	115			
Sample ID: R10080398-002E		Sample Matrix Spike Duplicate					Run: SUB-C136665			08/31/10 11:03
Selenium-IV		0.045	mg/L	0.0010	90	85	115	1.6	10	
Method: A3114 B										
Batch: C_27278										
Sample ID: LRB-27278		Method Blank					Run: SUB-C136682			08/31/10 12:06
Selenium		ND	mg/L	0.0003						
Sample ID: LFB-27278		Laboratory Fortified Blank					Run: SUB-C136682			08/31/10 12:09
Selenium		0.047	mg/L	0.0010	94	90	110			
Sample ID: R10080398-002E		Sample Matrix Spike					Run: SUB-C136682			08/31/10 12:26
Selenium		0.046	mg/L	0.0010	92	85	115			
Sample ID: R10080398-002E		Sample Matrix Spike Duplicate					Run: SUB-C136682			08/31/10 12:28
Selenium		0.047	mg/L	0.0010	94	85	115	2.4	15	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 100830_1_PH-W		
Sample ID: LCS_pH-1_100830		Laboratory Control Sample			Run: PH_COND2-R_100830A		08/30/10 08:51			
pH		7.42	s.u.	0.010	100	98.55	101.45			
Sample ID: R10080398-001ADUP		Sample Duplicate			Run: PH_COND2-R_100830A		08/30/10 09:14			
pH		7.85	s.u.	0.010				0.4	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G		Batch: A2010-08-31_2_NH3_01								
Sample ID: MBLK-2		Method Blank					Run: TECHAA2-R_100831A		08/31/10 14:34	
Nitrogen, Ammonia as N		ND	mg/L	0.01						
Sample ID: LFB-3		Laboratory Fortified Blank					Run: TECHAA2-R_100831A		08/31/10 15:04	
Nitrogen, Ammonia as N		0.26	mg/L	0.10	104	90	110			
Sample ID: R10080344-003CMS		Sample Matrix Spike					Run: TECHAA2-R_100831A		08/31/10 16:13	
Nitrogen, Ammonia as N		0.24	mg/L	0.10	98	80	120			
Sample ID: R10080344-003CMSD		Sample Matrix Spike Duplicate					Run: TECHAA2-R_100831A		08/31/10 16:14	
Nitrogen, Ammonia as N		0.25	mg/L	0.10	102	80	120	3.6	10	
Sample ID: R10080459-003BMS		Sample Matrix Spike					Run: TECHAA2-R_100831A		08/31/10 16:30	
Nitrogen, Ammonia as N		0.20	mg/L	0.10	78	80	120			S
Sample ID: R10080459-003BMSD		Sample Matrix Spike Duplicate					Run: TECHAA2-R_100831A		08/31/10 16:31	
Nitrogen, Ammonia as N		0.22	mg/L	0.10	88	80	120	11	10	R

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R136764		
Sample ID: MB-100901A	5	Method Blank				Run: SUB-C136764			09/01/10 13:09	
Aluminum		ND	mg/L	0.01						
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100901A	5	Laboratory Fortified Blank				Run: SUB-C136764			09/01/10 13:13	
Aluminum		1.0	mg/L	0.10	99	85	115			
Calcium		51	mg/L	0.50	99	85	115			
Magnesium		52	mg/L	0.50	101	85	115			
Potassium		46	mg/L	0.50	91	85	115			
Sodium		49	mg/L	0.50	95	85	115			
Sample ID: C10081054-001BMS2	5	Sample Matrix Spike				Run: SUB-C136764			09/01/10 19:21	
Aluminum		1.99	mg/L	0.10	98	70	130			
Calcium		139	mg/L	1.0	96	70	130			
Magnesium		114	mg/L	1.0	97	70	130			
Potassium		99.4	mg/L	1.0	94	70	130			
Sodium		889	mg/L	1.0		70	130			A
Sample ID: C10081054-001BMSD2	5	Sample Matrix Spike Duplicate				Run: SUB-C136764			09/01/10 19:25	
Aluminum		2.03	mg/L	0.10	100	70	130	2.1	20	
Calcium		141	mg/L	1.0	98	70	130	1.5	20	
Magnesium		116	mg/L	1.0	98	70	130	1.1	20	
Potassium		101	mg/L	1.0	95	70	130	1.9	20	
Sodium		885	mg/L	1.0		70	130	0.5	20	A
Method: E200.7								Batch: C_R136930		
Sample ID: MB-100907A		Method Blank				Run: SUB-C136930			09/07/10 11:10	
Sodium		ND	mg/L	0.3						
Sample ID: LFB-100907A		Laboratory Fortified Blank				Run: SUB-C136930			09/07/10 11:14	
Sodium		50	mg/L	0.50	100	85	115			
Sample ID: C10080752-007CMS2		Sample Matrix Spike				Run: SUB-C136930			09/07/10 12:14	
Sodium		141	mg/L	1.0	101	70	130			
Sample ID: C10080752-007CMSD2		Sample Matrix Spike Duplicate				Run: SUB-C136930			09/07/10 12:19	
Sodium		142	mg/L	1.0	101	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_27256
Sample ID: MB-27256										08/31/10 22:43
19 Method Blank				Run: SUB-C136716						
Antimony		ND	mg/L	0.0003						
Arsenic		0.0009	mg/L	5E-05						
Barium		ND	mg/L	0.0002						
Beryllium		ND	mg/L	3E-05						
Boron		0.009	mg/L	0.003						
Cadmium		ND	mg/L	4E-05						
Chromium		0.0007	mg/L	3E-05						
Copper		0.0001	mg/L	5E-05						
Iron		0.005	mg/L	0.001						
Lead		9E-05	mg/L	5E-05						
Manganese		0.0003	mg/L	2E-05						
Molybdenum		ND	mg/L	0.00010						
Nickel		ND	mg/L	4E-05						
Selenium		ND	mg/L	3E-05						
Silver		ND	mg/L	4E-05						
Strontium		0.0002	mg/L	6E-05						
Thallium		ND	mg/L	0.0001						
Uranium		ND	mg/L	4E-05						
Zinc		0.01	mg/L	0.001						
Sample ID: LCS3-27256										08/31/10 22:50
19 Laboratory Control Sample				Run: SUB-C136716						
Antimony		0.588	mg/L	0.050	118	85	115			S
Arsenic		0.512	mg/L	0.0010	102	85	115			
Barium		0.533	mg/L	0.10	107	85	115			
Beryllium		0.228	mg/L	0.010	91	85	115			
Boron		0.494	mg/L	0.10	97	85	115			
Cadmium		0.266	mg/L	0.010	106	85	115			
Chromium		0.526	mg/L	0.050	105	85	115			
Copper		0.529	mg/L	0.010	106	85	115			
Iron		2.47	mg/L	0.030	98	85	115			
Lead		0.526	mg/L	0.050	105	85	115			
Manganese		2.47	mg/L	0.010	99	85	115			
Molybdenum		0.552	mg/L	0.10	110	85	115			
Nickel		0.511	mg/L	0.050	102	85	115			
Selenium		0.533	mg/L	0.0010	107	85	115			
Silver		0.0513	mg/L	0.010	103	85	115			
Strontium		0.488	mg/L	0.10	98	85	115			
Thallium		0.515	mg/L	0.10	103	85	115			
Uranium		0.525	mg/L	0.00030	105	85	115			
Zinc		0.514	mg/L	0.010	100	85	115			
- Response for Antimony is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.										
Sample ID: R10080398-001D										08/31/10 23:59
19 Sample Matrix Spike				Run: SUB-C136716						
Antimony		0.597	mg/L	0.050	119	70	130			
Arsenic		0.501	mg/L	0.0010	100	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8											
Batch: C_27256											
Sample ID: R10080398-001D	19 Sample Matrix Spike			Run: SUB-C136716				08/31/10 23:59			
Barium		0.552	mg/L	0.10	108	70	130				
Beryllium		0.201	mg/L	0.010	80	70	130				
Boron		0.521	mg/L	0.10	91	70	130				
Cadmium		0.254	mg/L	0.010	102	70	130				
Chromium		0.517	mg/L	0.050	103	70	130				
Copper		0.503	mg/L	0.010	101	70	130				
Iron		2.76	mg/L	0.030	99	70	130				
Lead		0.536	mg/L	0.050	107	70	130				
Manganese		2.52	mg/L	0.010	99	70	130				
Molybdenum		0.582	mg/L	0.10	116	70	130				
Nickel		0.490	mg/L	0.050	98	70	130				
Selenium		0.497	mg/L	0.0010	99	70	130				
Silver		0.0496	mg/L	0.010	99	70	130				
Strontium		3.26	mg/L	0.10		70	130			A	
Thallium		0.524	mg/L	0.10	105	70	130				
Uranium		0.551	mg/L	0.00030	110	70	130				
Zinc		0.460	mg/L	0.010	91	70	130				
Sample ID: R10080398-001D											
19 Sample Matrix Spike Duplicate											
Run: SUB-C136716											
09/01/10 00:05											
Antimony		0.590	mg/L	0.050	118	70	130	1.2	20		
Arsenic		0.506	mg/L	0.0010	101	70	130	1.1	20		
Barium		0.547	mg/L	0.10	107	70	130	0.8	20		
Beryllium		0.202	mg/L	0.010	81	70	130	0.9	20		
Boron		0.529	mg/L	0.10	93	70	130	1.6	20		
Cadmium		0.252	mg/L	0.010	101	70	130	0.7	20		
Chromium		0.537	mg/L	0.050	107	70	130	3.9	20		
Copper		0.512	mg/L	0.010	102	70	130	1.9	20		
Iron		2.77	mg/L	0.030	100	70	130	0.2	20		
Lead		0.541	mg/L	0.050	108	70	130	0.9	20		
Manganese		2.55	mg/L	0.010	100	70	130	1.2	20		
Molybdenum		0.580	mg/L	0.10	116	70	130	0.2	20		
Nickel		0.499	mg/L	0.050	100	70	130	1.7	20		
Selenium		0.500	mg/L	0.0010	100	70	130	0.5	20		
Silver		0.0486	mg/L	0.010	97	70	130	2.1	20		
Strontium		3.23	mg/L	0.10		70	130	1	20	A	
Thallium		0.534	mg/L	0.10	107	70	130	2	20		
Uranium		0.573	mg/L	0.00030	115	70	130	3.9	20		
Zinc		0.467	mg/L	0.010	93	70	130	1.6	20		
Method: E200.8											
Batch: C_R136716A											
Sample ID: R10080398-002D	23 Post Digestion Spike			Run: SUB-C136716				09/01/10 13:38			
Antimony		0.0562	mg/L	0.050	112	70	130				
Arsenic		0.0540	mg/L	0.0010	105	70	130				
Barium		0.0618	mg/L	0.0010	104	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8											
Batch: C_R136716A											
Sample ID: R10080398-002D	23 Post Digestion Spike			Run: SUB-C136716				09/01/10 13:38			
Beryllium		0.0433	mg/L	0.010	87	70	130				
Boron		0.112	mg/L	0.10	94	70	130				
Cadmium		0.0500	mg/L	0.010	100	70	130				
Chromium		0.0522	mg/L	0.050	104	70	130				
Copper		0.0502	mg/L	0.010	100	70	130				
Iron		1.31	mg/L	0.030	103	70	130				
Lead		0.0523	mg/L	0.050	104	70	130				
Manganese		0.638	mg/L	0.010		70	130			A	
Mercury		0.00519	mg/L	0.0010	102	70	130				
Molybdenum		0.0468	mg/L	0.0010	93	70	130				
Nickel		0.0497	mg/L	0.0010	99	70	130				
Selenium		0.0529	mg/L	0.0010	105	70	130				
Silicon		4.38	mg/L	0.10		70	130			A	
Silver		0.0158	mg/L	0.010	79	70	130				
Strontium		2.35	mg/L	0.10		70	130			A	
Thallium		0.0527	mg/L	0.0010	105	70	130				
Thorium 232		0.0535	mg/L	0.0010	107	70	130				
Uranium		0.0616	mg/L	0.00030	107	70	130				
Vanadium		0.0525	mg/L	0.0010	104	70	130				
Zinc		0.0493	mg/L	0.010	99	70	130				
Sample ID: R10080398-002D	23 Post Digestion Spike Duplicate			Run: SUB-C136716				09/01/10 13:45			
Antimony		0.0560	mg/L	0.050	112	70	130	0.4	20		
Arsenic		0.0544	mg/L	0.0010	106	70	130	0.7	20		
Barium		0.0618	mg/L	0.0010	104	70	130	0.1	20		
Beryllium		0.0434	mg/L	0.010	87	70	130	0.3	20		
Boron		0.115	mg/L	0.10	99	70	130	2.3	20		
Cadmium		0.0500	mg/L	0.010	100	70	130	0.1	20		
Chromium		0.0521	mg/L	0.050	104	70	130	0.1	20		
Copper		0.0505	mg/L	0.010	100	70	130	0.5	20		
Iron		1.34	mg/L	0.030	105	70	130	2.3	20		
Lead		0.0526	mg/L	0.050	105	70	130	0.5	20		
Manganese		0.650	mg/L	0.010		70	130	1.8	20	A	
Mercury		0.00527	mg/L	0.0010	103	70	130	1.5	20		
Molybdenum		0.0497	mg/L	0.0010	99	70	130	6	20		
Nickel		0.0499	mg/L	0.0010	100	70	130	0.4	20		
Selenium		0.0535	mg/L	0.0010	106	70	130	1	20		
Silicon		4.44	mg/L	0.10		70	130	1.3	20	A	
Silver		0.0183	mg/L	0.010	91	70	130	14	20		
Strontium		2.38	mg/L	0.10		70	130	1.3	20	A	
Thallium		0.0529	mg/L	0.0010	106	70	130	0.3	20		
Thorium 232		0.0540	mg/L	0.0010	108	70	130	0.9	20		
Uranium		0.0622	mg/L	0.00030	108	70	130	1	20		
Vanadium		0.0531	mg/L	0.0010	105	70	130	1	20		

Qualifiers:

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ND - Not detected at the reporting limit.

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MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R136716A
Sample ID: R10080398-002D	23	Post Digestion Spike Duplicate			Run: SUB-C136716			09/01/10 13:45		
Zinc		0.0498	mg/L	0.010	100	70	130	1	20	
Sample ID: LRB	23	Method Blank			Run: SUB-C136716			08/31/10 12:50		
Silicon		ND	mg/L	0.0005						
Antimony		0.0007	mg/L	0.0002						
Arsenic		ND	mg/L	4E-05						
Barium		ND	mg/L	3E-05						
Beryllium		ND	mg/L	3E-05						
Boron		0.0004	mg/L							
Cadmium		ND	mg/L	7E-05						
Chromium		ND	mg/L	5E-05						
Copper		0.0002	mg/L	6E-05						
Iron		ND	mg/L	0.0001						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	2E-05						
Mercury		6E-05	mg/L	2E-05						
Molybdenum		0.0004	mg/L	8E-05						
Nickel		0.0002	mg/L	5E-05						
Selenium		ND	mg/L	5E-05						
Silver		ND	mg/L	8E-05						
Strontium		ND	mg/L	6E-05						
Thallium		ND	mg/L	2E-05						
Thorium 232		6E-05	mg/L	3E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Zinc		0.003	mg/L	0.0001						
Sample ID: LFB	23	Laboratory Fortified Blank			Run: SUB-C136716			08/31/10 12:57		
Silicon		0.595	mg/L	0.0050	114	85	115			
Antimony		0.0498	mg/L	0.0010	98	85	115			
Arsenic		0.0520	mg/L	0.0010	104	85	115			
Barium		0.0518	mg/L	0.0010	104	85	115			
Beryllium		0.0515	mg/L	0.0010	103	85	115			
Boron		0.0500	mg/L	0.0010	99	85	115			
Cadmium		0.0525	mg/L	0.0010	105	85	115			
Chromium		0.0518	mg/L	0.0010	104	85	115			
Copper		0.0527	mg/L	0.0010	105	85	115			
Iron		1.28	mg/L	0.012	102	85	115			
Lead		0.0520	mg/L	0.0010	104	85	115			
Manganese		0.0508	mg/L	0.0010	102	85	115			
Mercury		0.00522	mg/L	0.0010	103	85	115			
Molybdenum		0.0510	mg/L	0.0010	101	85	115			
Nickel		0.0521	mg/L	0.0010	104	85	115			
Selenium		0.0526	mg/L	0.0010	105	85	115			
Silver		0.0203	mg/L	0.0010	102	85	115			

Qualifiers:

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MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R136716A		
Sample ID: LFB	23	Laboratory Fortified Blank				Run: SUB-C136716			08/31/10 12:57	
Strontium		0.0513	mg/L	0.0010	103	85	115			
Thallium		0.0515	mg/L	0.0010	103	85	115			
Thorium 232		0.0519	mg/L	0.0010	104	85	115			
Uranium		0.0519	mg/L	0.00030	104	85	115			
Vanadium		0.0519	mg/L	0.0010	104	85	115			
Zinc		0.0549	mg/L	0.0010	103	85	115			
Method: E200.8								Batch: C_27340		
Sample ID: MB-27340		Method Blank				Run: SUB-C137102			09/10/10 02:44	
Uranium		0.0001	mg/L	6E-05						
Sample ID: LCS2-27340		Laboratory Control Sample				Run: SUB-C137102			09/10/10 02:49	
Uranium		0.0994	mg/L	0.00030	99	85	115			
Sample ID: R10080398-002I		Post Digestion Spike				Run: SUB-C137102			09/10/10 03:10	
Uranium		0.0520	mg/L	0.00030	104	70	130			
Sample ID: R10080398-002I		Post Digestion Spike Duplicate				Run: SUB-C137102			09/10/10 03:36	
Uranium		0.0508	mg/L	0.00030	101	70	130	2.4	20	

Qualifiers:

RL - Analyte reporting limit.

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MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										
Analytical Run: DIONEX_100825A										
Sample ID: CCV082510-11	5	Continuing Calibration Verification Standard								08/25/10 11:47
Chloride		77.3	mg/L	1.00	103	90	110			
Fluoride		7.70	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N		7.67	mg/L	0.10	102	90	110			
Nitrogen, Nitrite as N		7.70	mg/L	0.10	103	90	110			
Sulfate		75.9	mg/L	1.0	101	90	110			
Method: E300.0										
Batch: R47669										
Sample ID: LFB082510-10	5	Laboratory Fortified Blank								08/25/10 11:29
Run: DIONEX_100825A										
Chloride		41.1	mg/L	1.00	96	90	110			
Fluoride		3.92	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N		4.22	mg/L	0.10	105	90	110			
Nitrogen, Nitrite as N		4.21	mg/L	0.10	98	90	110			
Sulfate		40.8	mg/L	1.0	102	90	110			
Sample ID: R10080390-001BMS	5	Sample Matrix Spike								08/25/10 12:22
Run: DIONEX_100825A										
Chloride		43.8	mg/L	1.00	98	90	110			
Fluoride		4.38	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N		4.61	mg/L	0.10	100	90	110			
Nitrogen, Nitrite as N		4.25	mg/L	0.10	106	90	110			
Sulfate		47.8	mg/L	1.0	97	90	110			
Sample ID: R10080390-001BMSD	5	Sample Matrix Spike Duplicate								08/25/10 12:40
Run: DIONEX_100825A										
Chloride		43.8	mg/L	1.00	98	90	110	0	10	
Fluoride		4.40	mg/L	0.10	97	90	110	0.4	10	
Nitrogen, Nitrate as N		4.61	mg/L	0.10	100	90	110	0.1	10	
Nitrogen, Nitrite as N		4.23	mg/L	0.10	106	90	110	0.4	10	
Sulfate		47.7	mg/L	1.0	96	90	110	0.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0957		
Sample ID: MB-GrAB-0957	6	Method Blank				Run: SUB-C137155			09/09/10 03:26	
Gross Alpha		-0.5	pCi/L							U
Gross Alpha precision (±)		0.6	pCi/L							
Gross Alpha MDC		0.7	pCi/L							
Gross Beta		-0.8	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-0957		Laboratory Control Sample				Run: SUB-C137155			09/09/10 03:26	
Gross Alpha		100	pCi/L	101		70	130			
Sample ID: Cs137-GrAB-0957		Laboratory Control Sample				Run: SUB-C137155			09/09/10 03:26	
Gross Beta		89	pCi/L	101		70	130			
Sample ID: C10080978-001DMS		Sample Matrix Spike				Run: SUB-C137155			09/09/10 03:26	
Gross Alpha		120	pCi/L	114		70	130			
Sample ID: C10080978-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-C137155			09/09/10 03:26	
Gross Alpha		120	pCi/L	115		70	130	1.2	18.7	
Sample ID: C10080978-001DMS		Sample Matrix Spike				Run: SUB-C137155			09/09/10 03:26	
Gross Beta		96	pCi/L	94		70	130			
Sample ID: C10080978-001DMSD		Sample Matrix Spike Duplicate				Run: SUB-C137155			09/09/10 03:26	
Gross Beta		100	pCi/L	100		70	130	6.3	15.7	
Sample ID: R10080398-001H	6	Sample Duplicate				Run: SUB-C137155			09/10/10 03:35	
Gross Alpha		8.1	pCi/L					8.5	90.1	
Gross Alpha precision (±)		3.4	pCi/L							
Gross Alpha MDC		4.7	pCi/L							
Gross Beta		14	pCi/L					10	49.2	
Gross Beta precision (±)		2.9	pCi/L							
Gross Beta MDC		4.4	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										
Batch: C_R137019										
Sample ID: LCS-R137019	3	Laboratory Control Sample					Run: SUB-C137019			09/02/10 09:00
Americium 241		1100	pCi/L	20	137	70	130			S
Cesium 137		930	pCi/L	20	92	70	130			
Potassium 40		5800	pCi/L	20	87	70	130			
Sample ID: MB-R137019	2	Method Blank					Run: SUB-C137019			09/02/10 09:00
Potassium 40		ND	pCi/L							U
Gross Gamma		ND	pCi/L							U
Sample ID: R10080398-001H	4	Sample Duplicate					Run: SUB-C137019			09/02/10 09:00
Thorium 234		590	pCi/L	20				18	30	
Thorium 234 precision (±)		160	pCi/L							
Gross Gamma		590	pCi/L					18	30	
Gross Gamma precision (±)		160	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										
Batch: C_RA226-4759										
Sample ID: C10080902-001CMS		Sample Matrix Spike								
Radium 226		15	pCi/L	96		70	130			09/07/10 21:44
Sample ID: C10080902-001CMSD		Sample Matrix Spike Duplicate								
Radium 226		14	pCi/L	88		70	130	8.9	22.3	09/07/10 21:44
Sample ID: MB-RA226-4759	3	Method Blank								
Radium 226		0.09	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-4759		Laboratory Control Sample								
Radium 226		7.2	pCi/L	89		70	130			09/07/10 23:20
Method: E903.0										
Batch: C_27340										
Sample ID: R10080398-001I		Sample Matrix Spike								
Radium 226		38	pCi/L	115		70	130			09/15/10 17:33
Sample ID: R10080398-001I		Sample Matrix Spike Duplicate								
Radium 226		35	pCi/L	105		70	130	7.4	22.8	09/15/10 17:33
Sample ID: LCS-27340		Laboratory Control Sample								
Radium 226		17	pCi/L	112		70	130			09/15/10 21:17
Sample ID: MB-27340	3	Method Blank								
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: C_27340
Sample ID: R10080398-002I										
Sample Matrix Spike										
Run: SUB-C137369										
Thorium 230		5.5	pCi/L		95	70	130			09/13/10 13:26
Sample ID: R10080398-002I										
Sample Matrix Spike Duplicate										
Run: SUB-C137369										
Thorium 230		6.7	pCi/L		115	70	130	19		56.5
Sample ID: LCS-27340										
Laboratory Control Sample										
Run: SUB-C137369										
Thorium 230		5.4	pCi/L		105	70	130			09/13/10 13:26
Sample ID: MB-27340										
3 Method Blank										
Run: SUB-C137369										
Thorium 230		0.02	pCi/L							U
Thorium 230 MDC		0.2	pCi/L							
Thorium 230 precision (±)		0.2	pCi/L							
Method: E907.0										Batch: C_RA-TH-ISO-1246
Sample ID: LCS-RA-TH-ISO-1246										
Laboratory Control Sample										
Run: SUB-C137446										
Thorium 230		4.3	pCi/L		83	70	130			09/17/10 17:09
Sample ID: R10080398-002H										
Sample Matrix Spike										
Run: SUB-C137446										
Thorium 230		12	pCi/L		93	70	130			09/17/10 17:09
Sample ID: R10080398-002H										
Sample Matrix Spike Duplicate										
Run: SUB-C137446										
Thorium 230		10	pCi/L		80	70	130	15		40.5
Sample ID: MB-RA-TH-ISO-1246										
3 Method Blank										
Run: SUB-C137446										
Thorium 230		0.02	pCi/L							U
Thorium 230 MDC		0.1	pCi/L							
Thorium 230 precision (±)		0.07	pCi/L							

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										
Batch: T_PB-210-0009										
Sample ID: LCS-PB-210-0009		Laboratory Control Sample				Run: SUB-T36920				09/19/10 14:02
Lead 210		59	pCi/L		90	70	130			
Sample ID: TAP WATERMS		Sample Matrix Spike				Run: SUB-T36920				09/19/10 06:26
Lead 210		120	pCi/L		113	70	130			
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate				Run: SUB-T36920				09/19/10 08:38
Lead 210		130	pCi/L		118	70	130	0	15.8	
Method: E909.0M										
Batch: T_PB-210-0015										
Sample ID: MB-12297	3	Method Blank				Run: SUB-T37064				09/29/10 23:12
Lead 210			pCi/L							U
Lead 210 precision (±)		4	pCi/L							
Lead 210 MDC		6	pCi/L							
Sample ID: R10080398-001I		Sample Matrix Spike				Run: SUB-T37064				09/30/10 07:58
Lead 210		440	pCi/L		81	70	130			
Sample ID: R10080398-001I		Sample Matrix Spike Duplicate				Run: SUB-T37064				09/30/10 10:09
Lead 210		490	pCi/L		89	70	130	9.1	15.6	

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QA/QC Summary Report

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 10/15/10
Work Order: R10080398

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										
Batch: C_PO210-0312										
Sample ID: C10080917-004EMS		Sample Matrix Spike					Run: SUB-C137063			09/07/10 09:24
Polonium 210		34	pCi/L	106		70	130			
Sample ID: C10080917-004EMSD		Sample Matrix Spike Duplicate					Run: SUB-C137063			09/07/10 09:24
Polonium 210		34	pCi/L	103		70	130	2	58.8	
Sample ID: LCS-PO210-0312		Laboratory Control Sample					Run: SUB-C137063			09/07/10 09:24
Polonium 210		16	pCi/L	99		70	130			
Sample ID: MB-PO210-0312	3	Method Blank					Run: SUB-C137063			09/07/10 09:24
Polonium 210		0.08	pCi/L							U
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.3	pCi/L							
Method: E912.0										
Batch: C_27340										
Sample ID: C10080917-001FMS		Sample Matrix Spike					Run: SUB-C137367			09/15/10 11:06
Polonium 210		25	pCi/L	125		70	130			
Sample ID: C10080917-001FMSD		Sample Matrix Spike Duplicate					Run: SUB-C137367			09/15/10 11:06
Polonium 210		25	pCi/L	121		70	130	3.3	53.6	
Sample ID: LCS-27340		Laboratory Control Sample					Run: SUB-C137367			09/15/10 11:06
Polonium 210		100	pCi/L	131		70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, and MSD are acceptable the batch is approved.										
Sample ID: MB-27340	3	Method Blank					Run: SUB-C137367			09/15/10 11:06
Polonium 210		-0.2	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

Page of

PLEASE PRINT (Provide as much information as possible.)

Project Name, PWS, Permit, Etc.

Denny Burdick Powers Tech

Sample Origin

State:

EPA/State Compliance: Yes No

Sampler: (Please Print) *Allen Scott*

Contact Name: *Allen Scott*

Phone/Fax: *603-4809*

Quote/Bottle Order: *Allen Scott*

Report Mail Address: *Powers Tech / Scott Envr, Powers Tech*

Invoice Address: *Powers Tech*

Invoice Contact & Phone:

Purchase Order:

Special Report/Formats:

- DW
- POTW/MWTP
- State:
- Other:
- EDD/EDT (Electronic Data)
- Format:
- LEVEL IV
- NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids
Vegetation Bioassay Other
DW - Drinking Water

ANALYSIS REQUESTED

As per request

SEE ATTACHED

Standard Turnaround (TAT)

R U S H

Contact EIL prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:

Shipped by:

Cooler (Date):

Receipt Temp: *1.4* °C

On Ice: Y N

Custody Seal: Y N

On Bottle: Y N

On Cooler: Y N

Intact: Y N

Signature Match: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Signature	Date/Time	Signature	Date/Time
<i>DB-09-21-01</i>	<i>8-23-26</i>		<i>Water</i>	<i>[Signature]</i>	<i>7:12 AM 8-24-20</i>	<i>[Signature]</i>	
<i>DB-09-21-02</i>	<i>8-23-26</i>		<i>Water</i>	<i>[Signature]</i>			

Custody Record MUST be Signed

Relinquished by (print): *Allen Scott*

Signature: *[Signature]*

Relinquished by (print): *Allen Scott*

Signature: *[Signature]*

Received by (print): *Steve Toiland*

Signature: *[Signature]*

Date/Time: *8:24:10 8:00*

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

December 20, 2010

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10090519

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. Rapid City SD received the following 2 samples for Powertech USA Inc on 9/29/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10090519-001	DB-09-21-01	09/28/10 0:00	09/29/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10090519-002	DB-09-21-02	09/28/10 0:00	09/29/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2010.12.20 14:31:17 -07:00



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10090519

Report Date: 12/20/10

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002.

Comments imported for SUBBED Workorder: C10100037

GROSS GAMMA ANALYSIS

The gamma spectrometry software has identified Thorium 234 as a potential component of this sample. The value generated by the software has been reported here. However, the Thorium 234 gamma ray peaks reside in the middle of excessive background contributions from Compton scatter, x-rays from thorium, and interfering gamma ray peaks from other naturally occurring radionuclides present in the metal can and sample. This means that the value for Thorium 234 likely has a positive bias. The only method to determine the actual concentration of Th-234 would be by radiochemical separation of thorium and gamma spectrometric analysis on the isolate thorium fraction.

End of comments imported for SUBBED Workorder: C10100037



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-001
Client Sample ID: DB-09-21-01

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
MAJOR IONS									
Alkalinity, Total as CaCO3	166	mg/L		5			1	A2320 B	10/08/10 10:07/hv
Carbonate as CO3	ND	mg/L			5		1	A2320 B	10/08/10 10:07/hv
Bicarbonate as HCO3	202	mg/L			5		1	A2320 B	10/08/10 10:07/hv
Calcium	95.3	mg/L			0.5		2	E200.7	10/15/10 11:41/eli-c
Chloride	8	mg/L	B		1		1	E300.0	10/01/10 04:55/jmh
Fluoride	0.4	mg/L			0.1		1	E300.0	10/01/10 04:55/jmh
Magnesium	34.8	mg/L			0.5		2	E200.7	10/15/10 11:41/eli-c
Nitrogen, Ammonia as N	0.2	mg/L			0.1		1	A4500-NH3 G	09/30/10 15:20/jmh
Nitrogen, Nitrate as N	ND	mg/L	D		2		20	E300.0	09/29/10 21:49/jmh
Nitrogen, Nitrite as N	ND	mg/L	D		2		20	E300.0	09/29/10 21:49/jmh
Potassium	11.6	mg/L			0.5		2	E200.7	10/15/10 11:41/eli-c
Sodium	169	mg/L	D		0.6		2	E200.7	10/15/10 11:41/eli-c
Sulfate	545	mg/L	D		20		20	E300.0	09/29/10 21:49/jmh
Silica	9.3	mg/L			0.2		2	E200.7	10/15/10 11:41/eli-c
PHYSICAL PROPERTIES									
Conductivity @ 25 C	1390	umhos/cm			5.0		1	A2510 B	10/05/10 15:49/tb
Oxidation-Reduction Potential	260	mV					1	A2580 B	10/05/10 16:45/jmh
pH	7.77	s.u.			0.01		1	A4500-H B	10/05/10 08:54/tb
Sodium Adsorption Ratio (SAR)	3.8	unitless			0.10		1	Calculation	11/09/10 16:57/ADM
Solids, Total Dissolved TDS @ 180 C	990	mg/L	D		10		1	A2540 C	09/29/10 16:55/jmh
METALS - DISSOLVED									
Aluminum	ND	mg/L			0.1		1	E200.8	10/12/10 14:57/eli-c
Arsenic	ND	mg/L			0.001		1	E200.8	10/12/10 14:57/eli-c
Barium	ND	mg/L			0.1		1	E200.8	10/12/10 14:57/eli-c
Boron	ND	mg/L			0.1		1	E200.8	10/12/10 14:57/eli-c
Cadmium	ND	mg/L			0.005		1	E200.8	10/12/10 14:57/eli-c
Chromium	ND	mg/L			0.05		1	E200.8	10/12/10 14:57/eli-c
Copper	ND	mg/L			0.01		1	E200.8	10/12/10 14:57/eli-c
Iron	ND	mg/L			0.03		1	E200.8	10/12/10 14:57/eli-c
Lead	ND	mg/L			0.001		1	E200.8	10/12/10 14:57/eli-c
Manganese	0.05	mg/L			0.01		1	E200.8	10/12/10 14:57/eli-c
Mercury	ND	mg/L			0.001		1	E200.8	10/12/10 14:57/eli-c
Molybdenum	ND	mg/L			0.1		1	E200.8	10/12/10 14:57/eli-c
Nickel	ND	mg/L			0.05		1	E200.8	10/12/10 14:57/eli-c
Selenium	ND	mg/L			0.001		1	A3114 B	10/09/10 15:42/eli-c
Silver	ND	mg/L			0.005		1	E200.8	10/12/10 14:57/eli-c
Thorium 232	ND	mg/L			0.005		1	E200.8	10/12/10 14:57/eli-c

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-001
Client Sample ID: DB-09-21-01

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/12/10 14:57/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/12/10 14:57/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/12/10 14:57/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/14/10 00:42/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/09/10 12:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/09/10 16:30/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-3	pCi/L	U			1	E900.0	10/28/10 02:53/eli-ca
Gross Alpha precision (±)	3.2	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Alpha MDC	5.6	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta	8.6	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta MDC	4.4	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Lead 210	1.8	pCi/L	U			1	E909.0M	10/30/10 21:10/eli-cs
Lead 210 precision (±)	1.2	pCi/L				1	E909.0M	10/30/10 21:10/eli-cs
Lead 210 MDC	2.0	pCi/L				1	E909.0M	10/30/10 21:10/eli-cs
Polonium 210	-0.024	pCi/L	U			1	E912.0	10/18/10 08:37/eli-ca
Polonium 210 MDC	0.53	pCi/L				1	E912.0	10/18/10 08:37/eli-ca
Polonium 210 precision (±)	0.20	pCi/L				1	E912.0	10/18/10 08:37/eli-ca
Radium 226	1.8	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Radium 226 MDC	0.2	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Thorium 230	0.04	pCi/L	U			1	E907.0	10/19/10 13:09/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	10/19/10 13:09/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	10/19/10 13:09/eli-c
Gross Gamma	390	pCi/L				1	E901.1	10/04/10 09:40/eli-c
Gross Gamma precision (±)	140	pCi/L				1	E901.1	10/04/10 09:40/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.07	pCi/L	U			1	E909.0M	11/14/10 11:18/eli-cs
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	11/14/10 11:18/eli-cs
Lead 210 MDC	1.5	pCi/L				1	E909.0M	11/14/10 11:18/eli-cs
Polonium 210	-0.0041	pCi/L	U			1	E912.0	10/20/10 08:49/eli-ca
Polonium 210 precision (±)	0.075	pCi/L				1	E912.0	10/20/10 08:49/eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-001
Client Sample ID: DB-09-21-01

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By	
					QCL	DF			
RADIONUCLIDES - SUSPENDED									
Polonium 210 MDC	0.19	pCi/L					1	E912.0	10/20/10 08:49/eli-ca
Radium 226	-0.06	pCi/L	U				1	E903.0	10/25/10 13:50/eli-c
Radium 226 precision (±)	0.03	pCi/L					1	E903.0	10/25/10 13:50/eli-c
Radium 226 MDC	0.07	pCi/L					1	E903.0	10/25/10 13:50/eli-c
Thorium 230	0.03	pCi/L	U				1	E907.0	10/20/10 15:27/eli-c
Thorium 230 MDC	0.09	pCi/L					1	E907.0	10/20/10 15:27/eli-c
Thorium 230 precision (±)	0.07	pCi/L					1	E907.0	10/20/10 15:27/eli-c
RADIONUCLIDES - TOTAL									
Radon 222	232	pCi/L		100			1	D5072-92	10/01/10 00:00/kl
TOTAL METALS ANALYSES									
Antimony	ND	mg/L		0.003			1	E200.8	10/19/10 02:15/eli-c
Arsenic	0.002	mg/L	B	0.001			1	E200.8	10/19/10 02:15/eli-c
Barium	ND	mg/L		0.1			1	E200.7	10/13/10 22:41/eli-c
Beryllium	ND	mg/L		0.001			1	E200.7	10/13/10 22:41/eli-c
Boron	ND	mg/L		0.1			1	E200.7	10/13/10 22:41/eli-c
Cadmium	ND	mg/L		0.005			1	E200.7	10/13/10 22:41/eli-c
Chromium	ND	mg/L		0.05			1	E200.7	10/13/10 22:41/eli-c
Copper	ND	mg/L		0.01			1	E200.7	10/13/10 22:41/eli-c
Iron	0.23	mg/L		0.03			1	E200.7	10/13/10 22:41/eli-c
Lead	ND	mg/L		0.001			1	E200.8	10/19/10 02:15/eli-c
Manganese	0.05	mg/L		0.01			1	E200.7	10/13/10 22:41/eli-c
Mercury	ND	mg/L		0.001			1	E245.1	10/01/10 15:52/eli-b
Molybdenum	ND	mg/L		0.1			1	E200.7	10/13/10 22:41/eli-c
Nickel	ND	mg/L		0.05			1	E200.7	10/13/10 22:41/eli-c
Selenium	ND	mg/L		0.001			1	E200.8	10/19/10 02:15/eli-c
Silver	ND	mg/L		0.005			1	E200.7	10/13/10 22:41/eli-c
Strontium	2.7	mg/L		0.1			1	E200.7	10/13/10 22:41/eli-c
Thallium	ND	mg/L		0.001			1	E200.8	10/19/10 02:15/eli-c
Uranium	ND	mg/L		0.0003			1	E200.8	10/19/10 02:15/eli-c
Zinc	ND	mg/L		0.01			1	E200.7	10/13/10 22:41/eli-c
DATA QUALITY									
A/C Balance (± 5)	1.23	%					1	A1030 E	11/09/10 00:00/kl
Anions	14.9	meq/L					1	A1030 E	11/09/10 00:00/kl
Cations	15.3	meq/L					1	A1030 E	11/09/10 00:00/kl
Solids, Total Dissolved Calculated	988	mg/L					1	A1030 E	11/09/10 00:00/kl
TDS Balance (0.80 - 1.20)	1.00						1	A1030 E	11/09/10 00:00/kl

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 B - The analyte was detected in the method blank.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-002
Client Sample ID: DB-09-21-02

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	192	mg/L		5		1	A2320 B 10/08/10 10:11/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B 10/08/10 10:11/hv
Bicarbonate as HCO3	234	mg/L		5		1	A2320 B 10/08/10 10:11/hv
Calcium	166	mg/L		0.5		2	E200.7 10/15/10 11:53/eli-c
Chloride	10	mg/L	B	1		1	E300.0 10/01/10 05:13/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0 10/01/10 05:13/jmh
Magnesium	47.9	mg/L		0.5		2	E200.7 10/15/10 11:53/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 09/30/10 15:39/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 09/29/10 23:53/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 09/29/10 23:53/jmh
Potassium	11.6	mg/L		0.5		2	E200.7 10/15/10 11:53/eli-c
Sodium	132	mg/L	D	0.6		2	E200.7 10/15/10 11:53/eli-c
Sulfate	687	mg/L	D	20		20	E300.0 09/29/10 23:00/jmh
Silica	8.6	mg/L		0.2		2	E200.7 10/15/10 11:53/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1560	umhos/cm		5.0		1	A2510 B 10/05/10 15:51/tb
Oxidation-Reduction Potential	290	mV				1	A2580 B 10/05/10 16:45/jmh
pH	7.44	s.u.		0.01		1	A4500-H B 10/05/10 09:01/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation 11/09/10 16:57/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C 09/29/10 16:55/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 10/12/10 15:03/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8 10/12/10 15:03/eli-c
Barium	ND	mg/L		0.1		1	E200.8 10/12/10 15:03/eli-c
Boron	ND	mg/L		0.1		1	E200.8 10/12/10 15:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 10/12/10 15:03/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 10/12/10 15:03/eli-c
Copper	ND	mg/L		0.01		1	E200.8 10/12/10 15:03/eli-c
Iron	ND	mg/L		0.03		1	E200.8 10/12/10 15:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8 10/12/10 15:03/eli-c
Manganese	0.53	mg/L		0.01		1	E200.8 10/12/10 15:03/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 10/12/10 15:03/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 10/12/10 15:03/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 10/12/10 15:03/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 10/09/10 15:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8 10/12/10 15:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 10/12/10 15:03/eli-c

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 B - The analyte was detected in the method blank.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-002
Client Sample ID: DB-09-21-02

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0081	mg/L		0.0003		1	E200.8	10/12/10 15:03/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/12/10 15:03/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/12/10 15:03/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	10/14/10 00:46/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/09/10 12:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/09/10 16:30/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	20.5	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Alpha precision (±)	5.2	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Alpha MDC	6.9	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta	21.3	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta precision (±)	3.9	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Gross Beta MDC	5.9	pCi/L				1	E900.0	10/28/10 02:53/eli-ca
Lead 210	1.5	pCi/L	U			1	E909.0M	10/30/10 23:12/eli-cs
Lead 210 precision (±)	1.2	pCi/L				1	E909.0M	10/30/10 23:12/eli-cs
Lead 210 MDC	2.0	pCi/L				1	E909.0M	10/30/10 23:12/eli-cs
Polonium 210	-0.075	pCi/L	U			1	E912.0	10/28/10 09:35/eli-ca
Polonium 210 MDC	1.4	pCi/L				1	E912.0	10/28/10 09:35/eli-ca
Polonium 210 precision (±)	0.50	pCi/L				1	E912.0	10/28/10 09:35/eli-ca
Radium 226	2.0	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Radium 226 MDC	0.1	pCi/L				1	E903.0	10/13/10 14:58/eli-ca
Thorium 230	0.008	pCi/L	U			1	E907.0	10/19/10 13:09/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	10/19/10 13:09/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	10/19/10 13:09/eli-c
Gross Gamma	470	pCi/L				1	E901.1	10/04/10 09:40/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	10/04/10 09:40/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.6	pCi/L	U			1	E909.0M	11/14/10 17:52/eli-cs
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	11/14/10 17:52/eli-cs
Lead 210 MDC	1.5	pCi/L				1	E909.0M	11/14/10 17:52/eli-cs
Polonium 210	-0.0047	pCi/L	U			1	E912.0	10/20/10 08:49/eli-ca
Polonium 210 precision (±)	0.086	pCi/L				1	E912.0	10/20/10 08:49/eli-ca

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10090519-002
Client Sample ID: DB-09-21-02

Report Date: 12/20/10
Collection Date: 09/28/10
Date Received: 09/29/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.22	pCi/L				1	E912.0	10/20/10 08:49/eli-ca
Radium 226	-0.02	pCi/L	U			1	E903.0	10/25/10 13:50/eli-c
Radium 226 precision (±)	0.03	pCi/L				1	E903.0	10/25/10 13:50/eli-c
Radium 226 MDC	0.05	pCi/L				1	E903.0	10/25/10 13:50/eli-c
Thorium 230	0.05	pCi/L	U			1	E907.0	10/20/10 15:27/eli-c
Thorium 230 MDC	0.08	pCi/L				1	E907.0	10/20/10 15:27/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E907.0	10/20/10 15:27/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	300	pCi/L		100		1	D5072-92	10/01/10 00:00/lkl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	10/19/10 02:21/eli-c
Arsenic	0.002	mg/L	B	0.001		1	E200.8	10/19/10 02:21/eli-c
Barium	ND	mg/L		0.1		1	E200.7	10/13/10 22:45/eli-c
Beryllium	ND	mg/L		0.001		1	E200.7	10/13/10 22:45/eli-c
Boron	ND	mg/L		0.1		1	E200.7	10/13/10 22:45/eli-c
Cadmium	ND	mg/L		0.005		1	E200.7	10/13/10 22:45/eli-c
Chromium	ND	mg/L		0.05		1	E200.7	10/13/10 22:45/eli-c
Copper	ND	mg/L		0.01		1	E200.7	10/13/10 22:45/eli-c
Iron	0.03	mg/L		0.03		1	E200.7	10/13/10 22:45/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/19/10 02:21/eli-c
Manganese	0.57	mg/L		0.01		1	E200.7	10/13/10 22:45/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/01/10 15:54/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.7	10/13/10 22:45/eli-c
Nickel	ND	mg/L		0.05		1	E200.7	10/13/10 22:45/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/19/10 02:21/eli-c
Silver	ND	mg/L		0.005		1	E200.7	10/13/10 22:45/eli-c
Strontium	2.3	mg/L		0.1		1	E200.7	10/13/10 22:45/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	10/19/10 02:21/eli-c
Uranium	0.0085	mg/L		0.0003		1	E200.8	10/19/10 02:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	10/13/10 22:45/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.400	%				1	A1030 E	11/09/10 00:00/lkl
Anions	18.4	meq/L				1	A1030 E	11/09/10 00:00/lkl
Cations	18.3	meq/L				1	A1030 E	11/09/10 00:00/lkl
Solids, Total Dissolved Calculated	1190	mg/L				1	A1030 E	11/09/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	11/09/10 00:00/lkl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
B - The analyte was detected in the method blank.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 101008A-ALK-SEL-W		
Sample ID: LCS1_101008A		Laboratory Control Sample			Run: PH_COND1-R_101008A			10/08/10 09:32		
Alkalinity, Total as CaCO3		964	mg/L	5.0	96	90	110			
Sample ID: MBLK1_101008A		Method Blank			Run: PH_COND1-R_101008A			10/08/10 09:39		
Alkalinity, Total as CaCO3		ND	mg/L	3						
Sample ID: R10090445-001AMS		Sample Matrix Spike			Run: PH_COND1-R_101008A			10/08/10 09:53		
Alkalinity, Total as CaCO3		288	mg/L	5.0	125	80	120			S
Sample ID: R10090445-001AMSD		Sample Matrix Spike Duplicate			Run: PH_COND1-R_101008A			10/08/10 10:00		
Alkalinity, Total as CaCO3		286	mg/L	5.0	123	80	120	0.7	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B										Batch: 101005_1_COND-PROBE-W
Sample ID: LCS1-1_101005		Laboratory Control Sample					Run: PH_COND2-R_101005B			10/05/10 15:23
Conductivity @ 25 C		153	umhos/cm	5.0	102	90	110			
Sample ID: LCS2-1_101005		Laboratory Control Sample					Run: PH_COND2-R_101005B			10/05/10 15:25
Conductivity @ 25 C		4980	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_101005		Laboratory Control Sample					Run: PH_COND2-R_101005B			10/05/10 15:27
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_101005		Method Blank					Run: PH_COND2-R_101005B			10/05/10 15:29
Conductivity @ 25 C		ND	umhos/cm	5						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: 100929A-SLDS-TDS-W
Sample ID: MBLK1_100929A		Method Blank					Run: BAL-4-R_100929B			09/29/10 16:55
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	5						
Sample ID: LCS1_100929A		Laboratory Control Sample					Run: BAL-4-R_100929B			09/29/10 16:55
Solids, Total Dissolved TDS @ 180 C		210	mg/L	10	105	90	110			
Sample ID: R10090474-001BMS		Sample Matrix Spike					Run: BAL-4-R_100929B			09/29/10 16:55
Solids, Total Dissolved TDS @ 180 C		1700	mg/L	10	105	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 101005-ORP-ISE-W		
Sample ID: LCS		Laboratory Control Sample			Run: PH_COND1-R_101005A			10/05/10 16:45		
Oxidation-Reduction Potential	480	mV		101		95	105			
Sample ID: R10090519-001F		Sample Duplicate			Run: PH_COND1-R_101005A			10/05/10 16:45		
Oxidation-Reduction Potential	280	mV						6.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										
Batch: C_27769										
Sample ID: MB-27769	Method Blank									
Selenium-IV		ND	mg/L	0.0003						10/09/10 12:30
Run: SUB-C138337										
Sample ID: LCS-27769	Laboratory Control Sample									
Selenium-IV		0.049	mg/L	0.0010	99	90	110			10/09/10 12:32
Run: SUB-C138337										
Sample ID: R10090519-001E	Sample Matrix Spike									
Selenium-IV		0.049	mg/L	0.0010	99	85	115			10/09/10 12:36
Run: SUB-C138337										
Sample ID: R10090519-001E	Sample Matrix Spike Duplicate									
Selenium-IV		0.049	mg/L	0.0010	98	85	115	1.1	10	10/09/10 12:39
Run: SUB-C138337										
Method: A3114 B										
Batch: C_27769										
Sample ID: MB-27769	Method Blank									
Selenium		ND	mg/L	0.0003						10/09/10 15:22
Run: SUB-C138338										
Sample ID: LCS-27769	Laboratory Control Sample									
Selenium		0.061	mg/L	0.0010	122	90	110			10/09/10 15:39
Run: SUB-C138338										
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.										
Sample ID: R10090519-001E	Sample Matrix Spike									
Selenium		0.042	mg/L	0.0010	84	85	115			10/09/10 15:44
Run: SUB-C138338										
Sample ID: R10090519-001E	Sample Matrix Spike Duplicate									
Selenium		0.040	mg/L	0.0010	80	85	115	5.6	15	10/09/10 15:46
Run: SUB-C138338										

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 101005_1_PH-W		
Sample ID: LCS_pH-1_101005		Laboratory Control Sample			Run: PH_COND2-R_101005A		10/05/10 08:48			
pH		7.41	s.u.	0.010	100	98.55	101.45			
Sample ID: R10090519-001ADUP		Sample Duplicate			Run: PH_COND2-R_101005A		10/05/10 08:57			
pH		7.77	s.u.	0.010				0.0	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2010-09-30_2_NH3_01		
Sample ID: MBLK-2		Method Blank				Run: TECHAA2-R_100930A			09/30/10 14:37	
Nitrogen, Ammonia as N		ND	mg/L	0.01						
Sample ID: LFB-3		Laboratory Fortified Blank				Run: TECHAA2-R_100930A			09/30/10 14:41	
Nitrogen, Ammonia as N		0.26	mg/L	0.10	103	90	110			
Sample ID: R10090519-002BMS		Sample Matrix Spike				Run: TECHAA2-R_100930A			09/30/10 15:40	
Nitrogen, Ammonia as N		0.23	mg/L	0.10	93	80	120			
Sample ID: R10090519-002BMSD		Sample Matrix Spike Duplicate				Run: TECHAA2-R_100930A			09/30/10 15:41	
Nitrogen, Ammonia as N		0.24	mg/L	0.10	95	80	120	2.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: C_27779										
Sample ID: MB-27779	13	Method Blank								
						Run: SUB-C138497				10/13/10 21:44
Barium		ND	mg/L	0.002						
Beryllium		ND	mg/L	0.0001						
Boron		0.01	mg/L	0.008						
Cadmium		ND	mg/L	0.001						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.008						
Manganese		ND	mg/L	0.0008						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Silver		ND	mg/L	0.001						
Strontium		0.0006	mg/L	0.0002						
Zinc		ND	mg/L	0.008						
Sample ID: LCS3-27779	13	Laboratory Control Sample								
						Run: SUB-C138497				10/13/10 21:48
Barium		0.550	mg/L	0.10	110	85	115			
Beryllium		0.273	mg/L	0.010	109	85	115			
Boron		0.525	mg/L	0.10	103	85	115			
Cadmium		0.268	mg/L	0.010	107	85	115			
Chromium		0.540	mg/L	0.050	108	85	115			
Copper		0.540	mg/L	0.010	108	85	115			
Iron		2.81	mg/L	0.030	112	85	115			
Manganese		2.71	mg/L	0.010	108	85	115			
Molybdenum		0.540	mg/L	0.10	108	85	115			
Nickel		0.556	mg/L	0.050	111	85	115			
Silver		0.0511	mg/L	0.010	102	85	115			
Strontium		0.547	mg/L	0.10	109	85	115			
Zinc		0.544	mg/L	0.010	109	85	115			
Sample ID: R10090519-002D	13	Sample Matrix Spike								
						Run: SUB-C138497				10/13/10 22:49
Barium		0.546	mg/L	0.10	107	70	130			
Beryllium		0.265	mg/L	0.010	106	70	130			
Boron		0.606	mg/L	0.10	107	70	130			
Cadmium		0.262	mg/L	0.010	105	70	130			
Chromium		0.532	mg/L	0.050	106	70	130			
Copper		0.540	mg/L	0.010	108	70	130			
Iron		2.77	mg/L	0.030	110	70	130			
Manganese		3.23	mg/L	0.010	106	70	130			
Molybdenum		0.530	mg/L	0.10	106	70	130			
Nickel		0.540	mg/L	0.050	108	70	130			
Silver		0.0529	mg/L	0.010	106	70	130			
Strontium		2.90	mg/L	0.10	70	130				A
Zinc		0.534	mg/L	0.010	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: C_27779										
Sample ID: R10090519-002D	13	Sample Matrix Spike Duplicate			Run: SUB-C138497			10/13/10 22:53		
Barium		0.556	mg/L	0.10	109	70	130	1.8	20	
Beryllium		0.272	mg/L	0.010	109	70	130	2.4	20	
Boron		0.629	mg/L	0.10	112	70	130	3.7	20	
Cadmium		0.269	mg/L	0.010	108	70	130	2.7	20	
Chromium		0.543	mg/L	0.050	109	70	130	2.0	20	
Copper		0.549	mg/L	0.010	110	70	130	1.7	20	
Iron		2.84	mg/L	0.030	112	70	130	2.2	20	
Manganese		3.30	mg/L	0.010	109	70	130	2.1	20	
Molybdenum		0.547	mg/L	0.10	109	70	130	3.2	20	
Nickel		0.558	mg/L	0.050	112	70	130	3.3	20	
Silver		0.0528	mg/L	0.010	106	70	130	0.2	20	
Strontium		3.04	mg/L	0.10		70	130	4.6	20	A
Zinc		0.545	mg/L	0.010	109	70	130	2.0	20	
Method: E200.7										
Batch: C_R138676										
Sample ID: MB-101015A	4	Method Blank			Run: SUB-C138676			10/15/10 10:48		
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101015A	5	Laboratory Fortified Blank			Run: SUB-C138676			10/15/10 10:53		
Calcium		49	mg/L	0.50	97	85	115			
Magnesium		50	mg/L	0.50	100	85	115			
Potassium		46	mg/L	0.50	93	85	115			
Sodium		49	mg/L	0.50	99	85	115			
Silica		0.96	mg/L	0.21	96	85	115			
Sample ID: R10090519-001C	4	Sample Matrix Spike			Run: SUB-C138676			10/15/10 11:45		
Calcium		193	mg/L	1.0	96	70	130			
Magnesium		133	mg/L	1.0	97	70	130			
Potassium		102	mg/L	1.0	89	70	130			
Sodium		273	mg/L	1.0	102	70	130			
Sample ID: R10090519-001C	4	Sample Matrix Spike Duplicate			Run: SUB-C138676			10/15/10 11:49		
Calcium		194	mg/L	1.0	96	70	130	0.3	20	
Magnesium		133	mg/L	1.0	96	70	130	0.2	20	
Potassium		102	mg/L	1.0	89	70	130	0.2	20	
Sodium		268	mg/L	1.0	98	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R138415A
Sample ID: C10091252-010BMS4	18	Post Digestion Spike			Run: SUB-C138415			10/12/10 14:08		
Aluminum		0.0597	mg/L	0.10	96	70	130			
Arsenic		0.0525	mg/L	0.0010	105	70	130			
Barium		0.0882	mg/L	0.10	102	70	130			
Boron		0.117	mg/L	0.10	95	70	130			
Cadmium		0.0502	mg/L	0.010	100	70	130			
Chromium		0.0508	mg/L	0.050	102	70	130			
Copper		0.0512	mg/L	0.010	102	70	130			
Iron		1.28	mg/L	0.030	99	70	130			
Lead		0.0516	mg/L	0.050	103	70	130			
Manganese		0.0748	mg/L	0.010	97	70	130			
Mercury		0.00498	mg/L	0.0010	100	70	130			
Molybdenum		0.0557	mg/L	0.10	103	70	130			
Nickel		0.0497	mg/L	0.050	99	70	130			
Silver		0.0182	mg/L	0.010	91	70	130			
Thorium 232		0.0500	mg/L	0.0010	100	70	130			
Uranium		0.0533	mg/L	0.00030	100	70	130			
Vanadium		0.0513	mg/L	0.10	103	70	130			
Zinc		0.0538	mg/L	0.010	104	70	130			
Sample ID: C10091252-010BMSD4	18	Post Digestion Spike Duplicate			Run: SUB-C138415			10/12/10 14:15		
Aluminum		0.0612	mg/L	0.0010	99	70	130	2.4	20	
Arsenic		0.0539	mg/L	0.0010	108	70	130	2.7	20	
Barium		0.0900	mg/L	0.0010	105	70	130	2.0	20	
Boron		0.120	mg/L	0.10	100	70	130	2.1	20	
Cadmium		0.0518	mg/L	0.010	104	70	130	3.2	20	
Chromium		0.0522	mg/L	0.050	104	70	130	2.8	20	
Copper		0.0521	mg/L	0.010	104	70	130	1.7	20	
Iron		1.32	mg/L	0.030	103	70	130	3.5	20	
Lead		0.0535	mg/L	0.050	107	70	130	3.7	20	
Manganese		0.0767	mg/L	0.010	101	70	130	2.5	20	
Mercury		0.00524	mg/L	0.0010	105	70	130	5.0	20	
Molybdenum		0.0588	mg/L	0.0010	109	70	130	5.4	20	
Nickel		0.0506	mg/L	0.0010	101	70	130	1.8	20	
Silver		0.0206	mg/L	0.010	103	70	130	12	20	
Thorium 232		0.0521	mg/L	0.0010	104	70	130	3.9	20	
Uranium		0.0554	mg/L	0.00030	104	70	130	3.9	20	
Vanadium		0.0524	mg/L	0.0010	105	70	130	2.1	20	
Zinc		0.0549	mg/L	0.010	106	70	130	1.9	20	
Sample ID: LRB	18	Method Blank			Run: SUB-C138415			10/11/10 16:22		
Aluminum		ND	mg/L	8E-05						
Arsenic		ND	mg/L	4E-05						
Barium		ND	mg/L	3E-05						
Boron		0.0002	mg/L							
Cadmium		ND	mg/L	7E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R138415A		
Sample ID: LRB	18	Method Blank				Run: SUB-C138415				10/11/10 16:22
Chromium		ND	mg/L	5E-05						
Copper		ND	mg/L	6E-05						
Iron		ND	mg/L	0.0001						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	2E-05						
Mercury		3E-05	mg/L	2E-05						
Molybdenum		0.0004	mg/L	8E-05						
Nickel		ND	mg/L	5E-05						
Silver		ND	mg/L	8E-05						
Thorium 232		ND	mg/L	3E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Zinc		ND	mg/L	0.0001						
Sample ID: LFB	18	Laboratory Fortified Blank				Run: SUB-C138415				10/11/10 16:29
Aluminum		0.0486	mg/L	0.0010	97	85	115			
Arsenic		0.0527	mg/L	0.0010	105	85	115			
Barium		0.0508	mg/L	0.0010	102	85	115			
Boron		0.0527	mg/L	0.0010	105	85	115			
Cadmium		0.0516	mg/L	0.0010	103	85	115			
Chromium		0.0526	mg/L	0.0010	105	85	115			
Copper		0.0532	mg/L	0.0010	106	85	115			
Iron		1.29	mg/L	0.012	103	85	115			
Lead		0.0513	mg/L	0.0010	103	85	115			
Manganese		0.0507	mg/L	0.0010	101	85	115			
Mercury		0.00522	mg/L	0.0010	104	85	115			
Molybdenum		0.0513	mg/L	0.0010	102	85	115			
Nickel		0.0532	mg/L	0.0010	106	85	115			
Silver		0.0199	mg/L	0.0010	99	85	115			
Thorium 232		0.0503	mg/L	0.0010	101	85	115			
Uranium		0.0498	mg/L	0.00030	100	85	115			
Vanadium		0.0526	mg/L	0.0010	105	85	115			
Zinc		0.0550	mg/L	0.0010	110	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/20/10
Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: C_27779										
Sample ID: MB-27779	6	Method Blank					Run: SUB-C138669		10/19/10 01:00	
Antimony		0.0002	mg/L	0.0002						
Arsenic		0.001	mg/L	0.0003						
Lead		ND	mg/L	5E-05						
Selenium		ND	mg/L	0.0007						
Thallium		ND	mg/L	5E-05						
Uranium		ND	mg/L	4E-05						
Sample ID: LCS3-27779	6	Laboratory Control Sample					Run: SLIB-C138669		10/19/10 01:07	
Antimony		0.601	mg/L	0.050	120	85	115			S
Arsenic		0.519	mg/L	0.0010	103	85	115			
Lead		0.549	mg/L	0.050	110	85	115			
Selenium		0.506	mg/L	0.0010	101	85	115			
Thallium		0.534	mg/L	0.10	107	85	115			
Uranium		0.574	mg/L	0.00030	115	85	115			
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.										
Sample ID: R10090519-002D	6	Sample Matrix Spike					Run: SUB-C138669		10/19/10 02:28	
Antimony		0.599	mg/L	0.050	120	70	130			
Arsenic		0.525	mg/L	0.0010	105	70	130			
Lead		0.548	mg/L	0.050	110	70	130			
Selenium		0.500	mg/L	0.0010	100	70	130			
Thallium		0.532	mg/L	0.10	106	70	130			
Uranium		0.605	mg/L	0.00030	119	70	130			
Sample ID: R10090519-002D	6	Sample Matrix Spike Duplicate					Run: SUB-C138669		10/19/10 02:35	
Antimony		0.608	mg/L	0.050	122	70	130	1.5	20	
Arsenic		0.529	mg/L	0.0010	105	70	130	0.8	20	
Lead		0.554	mg/L	0.050	111	70	130	1.1	20	
Selenium		0.507	mg/L	0.0010	101	70	130	1.5	20	
Thallium		0.539	mg/L	0.10	108	70	130	1.3	20	
Uranium		0.606	mg/L	0.00030	119	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1 Analytical Run: SUB-B154899										
Sample ID: QCS Initial Calibration Verification Standard										
Mercury		0.0020	mg/L	0.0010	100	90	110			10/01/10 14:42
Method: E245.1 Batch: B_49478										
Sample ID: MB-49478 Method Blank										
Mercury		3E-05	mg/L	1E-05						Run: SUB-B154899 10/01/10 15:33
Sample ID: LCS-49478 Laboratory Control Sample										
Mercury		0.0020	mg/L	0.0010	97	85	115			Run: SUB-B154899 10/01/10 15:37
Sample ID: B10100063-001BMS Sample Matrix Spike										
Mercury		0.0010	mg/L	0.0010	49	70	130			Run: SUB-B154899 10/01/10 15:47 S
Sample ID: B10100063-001BMSD Sample Matrix Spike Duplicate										
Mercury		0.0010	mg/L	0.0010	50	70	130	1.0	30	Run: SUB-B154899 10/01/10 15:48 S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: DIONEX_100929A		
Sample ID: CCV092910-15	3	Continuing Calibration Verification Standard								09/29/10 18:17
Nitrogen, Nitrate as N		7.02	mg/L	0.10	94	90	110			
Nitrogen, Nitrite as N		7.11	mg/L	0.10	95	90	110			
Sulfate		72.1	mg/L	1.0	96	90	110			
Sample ID: CCV092910-34	3	Continuing Calibration Verification Standard								09/29/10 22:07
Nitrogen, Nitrate as N		7.50	mg/L	0.10	100	90	110			
Nitrogen, Nitrite as N		7.61	mg/L	0.10	101	90	110			
Sulfate		77.1	mg/L	1.0	103	90	110			
Method: E300.0								Batch: R48299		
Sample ID: LFB092910-14	3	Laboratory Fortified Blank								09/29/10 17:59
Nitrogen, Nitrate as N		3.71	mg/L	0.10	93	90	110			
Nitrogen, Nitrite as N		3.78	mg/L	0.10	95	90	110			
Sulfate		37.3	mg/L	1.0	93	90	110			
Sample ID: R10090519-002AMS	3	Sample Matrix Spike								09/29/10 23:17
Nitrogen, Nitrate as N		80.6	mg/L	2.0	101	90	110			
Nitrogen, Nitrite as N		81.5	mg/L	2.0	102	90	110			
Sulfate		1530	mg/L	20	105	90	110			
Sample ID: R10090519-002AMSD	3	Sample Matrix Spike Duplicate								09/29/10 23:35
Nitrogen, Nitrate as N		80.6	mg/L	2.0	101	90	110	0.1	10	
Nitrogen, Nitrite as N		81.7	mg/L	2.0	102	90	110	0.1	10	
Sulfate		1530	mg/L	20	105	90	110	0.4	10	
Method: E300.0								Analytical Run: DIONEX_100930A		
Sample ID: CCV093010-28	2	Continuing Calibration Verification Standard								10/01/10 02:16
Chloride		73.3	mg/L	1.00	98	90	110			
Fluoride		7.36	mg/L	0.10	98	90	110			
Method: E300.0								Batch: R48311		
Sample ID: LFB093010-14	2	Laboratory Fortified Blank								09/30/10 22:27
Chloride		37.9	mg/L	1.00	95	90	110			
Fluoride		4.02	mg/L	0.10	101	90	110			
Sample ID: R10090533-003AMS	2	Sample Matrix Spike								10/01/10 03:09
Chloride		41.5	mg/L	1.00	93	90	110			
Fluoride		4.28	mg/L	0.10	93	90	110			
Sample ID: R10090533-003AMSD	2	Sample Matrix Spike Duplicate								10/01/10 03:27
Chloride		41.4	mg/L	1.00	93	90	110	0.0	10	
Fluoride		4.27	mg/L	0.10	93	90	110	0.1	10	

Qualifiers:

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MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										
Batch: C_GrAB-0985										
Sample ID: MB-GrAB-0985	6	Method Blank					Run: SUB-C139230			10/28/10 02:53
Gross Alpha		-2	pCi/L							U
Gross Alpha precision (±)		0.7	pCi/L							
Gross Alpha MDC		0.9	pCi/L							
Gross Beta		-2	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-0985		Laboratory Control Sample					Run: SUB-C139230			10/28/10 02:53
Gross Alpha		100	pCi/L	103		70	130			
Sample ID: Cs137-GrAB-0985		Laboratory Control Sample					Run: SUB-C139230			10/28/10 02:53
Gross Beta		92	pCi/L	106		70	130			
Sample ID: C10100071-002CDUP	6	Sample Duplicate					Run: SUB-C139230			10/28/10 02:53
Gross Alpha		220	pCi/L					1.1	17.5	
Gross Alpha precision (±)		8.2	pCi/L							
Gross Alpha MDC		4.0	pCi/L							
Gross Beta		77	pCi/L					4.4	18.2	
Gross Beta precision (±)		3.2	pCi/L							
Gross Beta MDC		3.4	pCi/L							
Sample ID: C10100261-001DMS		Sample Matrix Spike					Run: SUB-C139230			10/28/10 20:13
Gross Alpha		114	pCi/L	94		70	130			
Sample ID: C10100261-001DMSD		Sample Matrix Spike Duplicate					Run: SUB-C139230			10/28/10 20:14
Gross Alpha		130	pCi/L	110		70	130	13	17.2	
Sample ID: C10100261-001DMS		Sample Matrix Spike					Run: SUB-C139230			10/28/10 20:14
Gross Beta		104	pCi/L	103		70	130			
Sample ID: C10100261-001DMSD		Sample Matrix Spike Duplicate					Run: SUB-C139230			10/28/10 20:14
Gross Beta		95.6	pCi/L	94		70	130	8.0	15.4	

Qualifiers:

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U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1								Batch: C_R138187		
Sample ID: LCS-R138187	3 Laboratory Control Sample			Run: SUB-C138187				10/04/10 09:40		
Americium 241		710	pCi/L	20	87	70	130			
Cesium 137		930	pCi/L	20	93	70	130			
Potassium 40		6200	pCi/L	20	93	70	130			
Sample ID: MB-R138187	23 Method Blank			Run: SUB-C138187				10/04/10 09:40		
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234 precision (±)		80	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		500	pCi/L							
Gross Gamma precision (±)		80	pCi/L							
- See Case Narrative regarding Gross Gamma analysis.										
Sample ID: R10090519-002H	22 Sample Duplicate			Run: SUB-C138187				10/04/10 09:40		
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40		ND	pCi/L	20					30	
Radium 223 precision (±)		ND	pCi/L							

Qualifiers:

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MDC - Minimum detectable concentration



QA/QC Summary Report

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Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R138187
Sample ID: R10090519-002H	22	Sample Duplicate		Run: SUB-C138187				10/04/10 09:40		
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234 precision (±)		130	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		440	pCi/L					7.6	30	
Gross Gamma precision (±)		130	pCi/L							

Qualifiers:

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QA/QC Summary Report

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Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										
Batch: C_RA226-4869										
Sample ID: R10090519-001H		Sample Matrix Spike								
Radium 226		15	pCi/L	102		70	130			10/13/10 14:58
										Run: SUB-C138511
Sample ID: R10090519-001H		Sample Matrix Spike Duplicate								
Radium 226		17	pCi/L	101		70	130	10	23.3	10/13/10 14:58
										Run: SUB-C138511
Sample ID: MB-RA226-4869	3	Method Blank								
Radium 226		-0.04	pCi/L							10/13/10 17:08
Radium 226 precision (±)		0.07	pCi/L							U
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4869		Laboratory Control Sample								
Radium 226		8.2	pCi/L	104		70	130			10/13/10 17:08
										Run: SUB-C138511
Method: E903.0										
Batch: C_27802										
Sample ID: R10090519-001I		Sample Matrix Spike								
Radium 226		78	pCi/L	102		70	130			10/25/10 13:50
										Run: SUB-C139019
Sample ID: R10090519-001I		Sample Matrix Spike Duplicate								
Radium 226		87	pCi/L	112		70	130	11	20.1	10/25/10 13:50
										Run: SUB-C139019
Sample ID: LCS-27802		Laboratory Control Sample								
Radium 226		13.7	pCi/Filter	92		70	130			10/25/10 23:12
										Run: SUB-C139019
Sample ID: MB-27802	3	Method Blank								
Radium 226		-0.1	pCi/Filter							10/25/10 23:12
Radium 226 precision (±)		0.1	pCi/Filter							U
Radium 226 MDC		0.2	pCi/Filter							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0								Batch: C_RA-TH-ISO-1268		
Sample ID: LCS-RA-TH-ISO-1268	Laboratory Control Sample									
Thorium 230		5.0	pCi/L	91		70	130			10/19/10 13:09
Sample ID: R10090519-002H	Sample Matrix Spike									
Thorium 230		12	pCi/L	91		70	130			10/19/10 13:09
Sample ID: R10090519-002H	Sample Matrix Spike Duplicate									
Thorium 230		12	pCi/L	90		70	130	0.7	41	10/19/10 13:09
Sample ID: MB-RA-TH-ISO-1268	3	Method Blank								
Thorium 230		0.02	pCi/L							U
Thorium 230 MDC		0.2	pCi/L							
Thorium 230 precision (±)		0.08	pCi/L							
Method: E907.0								Batch: C_27802		
Sample ID: C10100194-003AMS	Sample Matrix Spike									
Thorium 230		25.1	pCi/Filter	101		70	130			10/20/10 15:27
Sample ID: C10100194-003AMSD	Sample Matrix Spike Duplicate									
Thorium 230		23.8	pCi/Filter	95		70	130	5.3	34.6	10/20/10 15:27
Sample ID: LCS-27802	Laboratory Control Sample									
Thorium 230		4.85	pCi/Filter	103		70	130			10/20/10 15:27
Sample ID: MB-27802	3	Method Blank								
Thorium 230		-0.2	pCi/Filter							U
Thorium 230 MDC		0.09	pCi/Filter							
Thorium 230 precision (±)		0.06	pCi/Filter							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										
Batch: T_PB-210-0024										
Sample ID: MB-PB-210-0024	3	Method Blank								
Lead 210			pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0024		Laboratory Control Sample								
Lead 210		48	pCi/L	88		70	130			10/29/10 16:39
Sample ID: TAP WATERMS		Sample Matrix Spike								
Lead 210		64	pCi/L	116		70	130			10/29/10 20:43
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate								
Lead 210		64	pCi/L	116		70	130	0.0	15.7	10/29/10 22:46
Method: E909.0M										
Batch: T_12635										
Sample ID: MB-12635	3	Method Blank								
Lead 210		-2	pCi/L							U
Lead 210 precision (±)		4	pCi/L							
Lead 210 MDC		6	pCi/L							
Sample ID: LCS-12635		Laboratory Control Sample								
Lead 210		120	pCi/L	55		70	130			11/14/10 09:06
Sample ID: R10090519-0011		Sample Matrix Spike								
Lead 210		380	pCi/L	86		70	130			11/14/10 13:29
Sample ID: R10090519-0011		Sample Matrix Spike Duplicate								
Lead 210		310	pCi/L	71		70	130	20	16.7	11/14/10 15:40

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/20/10

Project: Dewey Groundwater Sampling

Work Order: R10090519

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0 Batch: C_PO210-0321										
Sample ID: C10100003-001GMS Run: SUB-C138717										
Polonium 210		Sample Matrix Spike								10/18/10 08:37
		31	pCi/L		92	70	130			
Sample ID: C10100003-001GMSD Run: SUB-C138717										
Polonium 210		Sample Matrix Spike Duplicate								10/18/10 08:37
		40	pCi/L		118	70	130	24	57	
Sample ID: LCS-PO210-0321 Run: SUB-C138717										
Polonium 210		Laboratory Control Sample								10/18/10 08:37
		17	pCi/L		101	70	130			
Sample ID: MB-PO210-0321 Run: SUB-C138717										
Polonium 210	3	Method Blank								10/18/10 08:37
		0.3	pCi/L							U
Polonium 210 MDC		0.5	pCi/L							
Polonium 210 precision (±)		0.3	pCi/L							
Method: E912.0 Batch: C_27802										
Sample ID: R10090519-0021 Run: SUB-C138957										
Polonium 210		Sample Matrix Spike								10/20/10 08:49
		14	pCi/L		96	70	130			
Sample ID: R10090519-0021 Run: SUB-C138957										
Polonium 210		Sample Matrix Spike Duplicate								10/20/10 08:49
		17	pCi/L		116	70	130	19	57.6	
Sample ID: LCS-27802 Run: SUB-C138957										
Polonium 210		Laboratory Control Sample								10/20/10 08:49
		74	pCi/L		96	70	130			
Sample ID: MB-27802 Run: SUB-C138957										
Polonium 210	3	Method Blank								10/20/10 08:49
		ND	pCi/L							U
Polonium 210 precision (±)		0.8	pCi/L							
Polonium 210 MDC		2	pCi/L							
Method: E912.0 Batch: C_PO210-0324										
Sample ID: C10100729-001FMS Run: SUB-C139322										
Polonium 210		Sample Matrix Spike								10/28/10 09:35
		33	pCi/L		98	70	130			
Sample ID: C10100729-001FMSD Run: SUB-C139322										
Polonium 210		Sample Matrix Spike Duplicate								10/28/10 09:35
		34	pCi/L		100	70	130	1.4	62.3	
Sample ID: MB-PO210-0324 Run: SUB-C139322										
Polonium 210	3	Method Blank								10/28/10 09:36
		0.05	pCi/L							U
Polonium 210 MDC		0.5	pCi/L							
Polonium 210 precision (±)		0.2	pCi/L							
Sample ID: LCS-PO210-0324 Run: SUB-C139322										
Polonium 210		Laboratory Control Sample								10/28/10 09:36
		18	pCi/L		113	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

PLEASE PRINT (Provide as much information as possible.)

Company Name:

Scott Environmental

Project Name, PWS, Permit, Etc.

PowerTech - Perry Park

Sample Origin

EPA/State Compliance:
Yes No

Report Mail Address:

Scott Env./PowerTech

Contact Name:

Allen Scott

Phone/Fax:

State:

Sampler: (Please Print)

Invoice Address:

PowerTech

Invoice Contact & Phone:

Scott Environmental

Purchase Order:

Quote/Bottle Order:

Special Report/Formats:

- DW
 POT/WW/WTP
 State: _____
 Other: _____
- EDD/EDT (Electronic Data)
Format: _____
 LEVEL IV
 NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids
Vegetation Bioassay Other
DW - Drinking Water

ANALYSIS REQUESTED

As per quote

SEE ATTACHED

Standard Turnaround (TAT)

R U S H

Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page
Comments:

Shipped by:
Cooler D(e):
Receipt Temp
16.0 °C

On Ice: Y N

Custody Seal: Y N

On Bottle: Y N

On Cooler: Y N

Infect: Y N

Signature: Y N

Match: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED	SEE ATTACHED	Standard Turnaround (TAT)	Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Comments:	Shipped by: Cooler D(e): Receipt Temp	On Ice: Y N	Custody Seal: Y N	On Bottle: Y N	On Cooler: Y N	Infect: Y N	Signature: Y N	Match: Y N
1 08-09-21-01	9-28-10		water													
2 08-09-21-02	9-28-10		water													
3																
4																
5																
6																
7																
8																
9																
10																

Relinquished by (print): _____ Date/Time: _____ Signature: _____

Requested by (print): _____ Date/Time: _____ Signature: _____

Received by (print): _____ Date/Time: _____ Signature: _____

Requested by Laboratory: _____ Date/Time: _____ Signature: _____

Signature: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



www.energylab.com
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Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

ANALYTICAL SUMMARY REPORT

December 29, 2010

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10100355

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. Rapid City SD received the following 2 samples for Powertech USA Inc on 10/26/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10100355-001	DB-09-21-01	10/25/10 0:00	10/26/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10100355-002	DB-09-21-02	10/25/10 0:00	10/26/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2010.12.29 13:06:51 -07:00



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10100355

Report Date: 12/29/10

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002.

Comments imported for SUBBED Workorder: C10101128

GROSS GAMMA ANALYSIS

The gamma spectrometry software has identified Thorium 234 as a potential component of this sample. The value generated by the software has been reported here. However, the Thorium 234 gamma ray peaks reside in the middle of excessive background contributions from Compton scatter, x-rays from thorium, and interfering gamma ray peaks from other naturally occurring radionuclides present in the metal can and sample. This means that the value for Thorium 234 likely has a positive bias. The only method to determine the actual concentration of Th-234 would be by radiochemical separation of thorium and gamma spectrometric analysis on the isolate thorium fraction.

TH230 ANALYSIS

The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

End of comments imported for SUBBED Workorder: C10101128



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-001
Client Sample ID: DB-09-21-01

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	170	mg/L		5		1	A2320 B	11/02/10 08:47/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/02/10 08:47/hv
Bicarbonate as HCO3	207	mg/L		5		1	A2320 B	11/02/10 08:47/hv
Calcium	93.8	mg/L		0.5		2	E200.7	11/10/10 15:07/eli-c
Chloride	7	mg/L		1		1	E300.0	10/26/10 22:23/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	10/26/10 22:23/jmh
Magnesium	33.7	mg/L		0.5		2	E200.7	11/10/10 15:07/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	11/01/10 12:17/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/26/10 22:23/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/26/10 22:23/jmh
Potassium	11.3	mg/L		0.5		2	E200.7	11/10/10 15:07/eli-c
Sodium	162	mg/L	D	0.6		2	E200.7	11/10/10 15:07/eli-c
Sulfate	524	mg/L	D	20		20	E300.0	10/26/10 21:30/jmh
Silica	8.2	mg/L		0.2		1	E200.8	11/10/10 03:11/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1310	umhos/cm		5.0		1	A2510 B	10/27/10 17:05/hv
Oxidation-Reduction Potential	270	mV				1	A2580 B	11/01/10 17:00/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	10/29/10 11:09/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	12/07/10 10:07/ADM
Solids, Total Dissolved TDS @ 180 C	940	mg/L	D	10		1	A2540 C	10/27/10 16:14/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/01/10 19:04/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/01/10 19:04/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/01/10 19:04/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/10/10 03:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/01/10 19:04/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/01/10 19:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/01/10 19:04/eli-c
Iron	ND	mg/L		0.03		1	E200.8	11/10/10 03:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/01/10 19:04/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	11/01/10 19:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/01/10 19:04/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/01/10 19:04/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/01/10 19:04/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/15/10 14:38/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/01/10 19:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/10/10 03:11/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	11/01/10 19:04/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/01/10 19:04/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-001
Client Sample ID: DB-09-21-01

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Zinc	ND	mg/L		0.01		1	E200.8	11/01/10 19:04/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 18:18/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/15/10 13:43/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/16/10 10:52/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	-0.6	pCi/L	U			1	E900.0	12/27/10 23:05/eli-ca
Gross Alpha precision (±)	3.5	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Alpha MDC	6.0	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta	9.7	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta MDC	5.4	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Lead 210	-0.5	pCi/L	U			1	E909.0M	11/21/10 20:04/eli-cs
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	11/21/10 20:04/eli-cs
Lead 210 MDC	1.4	pCi/L				1	E909.0M	11/21/10 20:04/eli-cs
Polonium 210	-0.035	pCi/L	U			1	E912.0	11/11/10 08:53/eli-ca
Polonium 210 MDC	0.71	pCi/L				1	E912.0	11/11/10 08:53/eli-ca
Polonium 210 precision (±)	0.26	pCi/L				1	E912.0	11/11/10 08:53/eli-ca
Radium 226	2.4	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Thorium 230	0.02	pCi/L	U			1	E907.0	11/16/10 16:16/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	11/16/10 16:16/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	11/16/10 16:16/eli-c
Gross Gamma	670	pCi/L				1	E901.1	11/01/10 10:00/eli-c
Gross Gamma precision (±)	210	pCi/L				1	E901.1	11/01/10 10:00/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	0.7	pCi/L	U			1	E909.0M	12/16/10 23:03/eli-cs
Lead 210 precision (±)	1.9	pCi/L				1	E909.0M	12/16/10 23:03/eli-cs
Lead 210 MDC	3.2	pCi/L				1	E909.0M	12/16/10 23:03/eli-cs
Polonium 210	-0.013	pCi/L	U			1	E912.0	11/18/10 13:12/eli-ca
Polonium 210 precision (±)	0.24	pCi/L				1	E912.0	11/18/10 13:12/eli-ca
Polonium 210 MDC	0.62	pCi/L				1	E912.0	11/18/10 13:12/eli-ca
Radium 226	0.1	pCi/L	U			1	E903.0	11/23/10 01:20/eli-c
Radium 226 precision (±)	0.09	pCi/L				1	E903.0	11/23/10 01:20/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-001
Client Sample ID: DB-09-21-01

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226 MDC	0.1	pCi/L				1 E903.0	11/23/10 01:20/eli-c
Thorium 230	-0.3	pCi/L	U			1 E907.0	11/16/10 16:13/eli-c
Thorium 230 MDC	0.3	pCi/L				1 E907.0	11/16/10 16:13/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1 E907.0	11/16/10 16:13/eli-c
- See Case Narrative regarding Th230 analysis.							
RADIONUCLIDES - TOTAL							
Radon 222	202	pCi/L		100		1 D5072-92	10/27/10 00:00/kl
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	11/01/10 19:38/eli-c
Arsenic	0.001	mg/L		0.001		1 E200.8	11/01/10 19:38/eli-c
Barium	ND	mg/L		0.1		1 E200.8	11/01/10 19:38/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	11/01/10 19:38/eli-c
Boron	ND	mg/L		0.1		2 E200.7	11/04/10 14:42/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	11/01/10 19:38/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	11/01/10 19:38/eli-c
Copper	ND	mg/L		0.01		1 E200.8	11/01/10 19:38/eli-c
Iron	0.21	mg/L		0.03		2 E200.7	11/04/10 14:42/eli-c
Lead	ND	mg/L		0.001		1 E200.8	11/01/10 19:38/eli-c
Manganese	0.05	mg/L		0.01		1 E200.8	11/01/10 19:38/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	10/28/10 17:04/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	11/01/10 19:38/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	11/01/10 19:38/eli-c
Selenium	0.001	mg/L		0.001		1 E200.8	11/01/10 19:38/eli-c
Silver	ND	mg/L		0.005		1 E200.8	11/01/10 19:38/eli-c
Strontium	2.8	mg/L		0.1		1 E200.8	11/01/10 19:38/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	11/01/10 19:38/eli-c
Uranium	ND	mg/L		0.0003		1 E200.8	11/01/10 19:38/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	11/01/10 19:38/eli-c
DATA QUALITY							
A/C Balance (± 5)	0.850	%				1 A1030 E	12/07/10 00:00/jmh
Anions	14.5	meq/L				1 A1030 E	12/07/10 00:00/jmh
Cations	14.8	meq/L				1 A1030 E	12/07/10 00:00/jmh
Solids, Total Dissolved Calculated	940	mg/L				1 A1030 E	12/07/10 00:00/jmh
TDS Balance (0.80 - 1.20)	0.980					1 A1030 E	12/07/10 00:00/jmh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-002
Client Sample ID: DB-09-21-02

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		DF	Method	Analysis Date / By
				RL	QCL			
MAJOR IONS								
Alkalinity, Total as CaCO3	192	mg/L		5		1	A2320 B	11/02/10 09:07/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/02/10 09:07/hv
Bicarbonate as HCO3	234	mg/L		5		1	A2320 B	11/02/10 09:07/hv
Calcium	167	mg/L		0.5		2	E200.7	11/10/10 15:56/eli-c
Chloride	9	mg/L		1		1	E300.0	10/26/10 22:58/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	10/26/10 22:58/jmh
Magnesium	47.7	mg/L		0.5		2	E200.7	11/10/10 15:56/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	11/01/10 11:37/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/26/10 22:58/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	10/26/10 22:58/jmh
Potassium	11.6	mg/L		0.5		2	E200.7	11/10/10 15:56/eli-c
Sodium	132	mg/L	D	0.6		2	E200.7	11/10/10 15:56/eli-c
Sulfate	648	mg/L	D	20		20	E300.0	10/26/10 22:41/jmh
Silica	7.9	mg/L		0.2		1	E200.8	11/10/10 03:17/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1510	umhos/cm		5.0		1	A2510 B	10/27/10 17:05/hv
Oxidation-Reduction Potential	320	mV				1	A2580 B	11/01/10 17:00/jmh
pH	7.59	s.u.		0.01		1	A4500-H B	10/29/10 11:18/tb
Sodium Adsorption Ratio (SAR)	2.3	unitless		0.10		1	Calculation	12/07/10 10:07/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C	10/27/10 16:14/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/01/10 19:44/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/01/10 19:44/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/01/10 19:44/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/10/10 03:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/01/10 19:44/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/01/10 19:44/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/01/10 19:44/eli-c
Iron	ND	mg/L		0.03		1	E200.8	11/10/10 03:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/01/10 19:44/eli-c
Manganese	0.49	mg/L		0.01		1	E200.8	11/01/10 19:44/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/01/10 19:44/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/01/10 19:44/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/01/10 19:44/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/15/10 14:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/01/10 19:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/10/10 03:17/eli-c
Uranium	0.0086	mg/L		0.0003		1	E200.8	11/01/10 19:44/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/01/10 19:44/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-002
Client Sample ID: DB-09-21-02

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Zinc	ND	mg/L		0.01		1	E200.8	11/01/10 19:44/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 18:22/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/15/10 13:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/16/10 10:52/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	19.3	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Alpha precision (±)	5.5	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Alpha MDC	7.4	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta	25.8	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta precision (±)	4.6	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Gross Beta MDC	6.9	pCi/L				1	E900.0	12/27/10 23:05/eli-ca
Lead 210	0.1	pCi/L	U			1	E909.0M	11/21/10 22:15/eli-cs
Lead 210 precision (±)	0.9	pCi/L				1	E909.0M	11/21/10 22:15/eli-cs
Lead 210 MDC	1.4	pCi/L				1	E909.0M	11/21/10 22:15/eli-cs
Polonium 210	-0.012	pCi/L	U			1	E912.0	11/11/10 08:53/eli-ca
Polonium 210 MDC	0.54	pCi/L				1	E912.0	11/11/10 08:53/eli-ca
Polonium 210 precision (±)	0.21	pCi/L				1	E912.0	11/11/10 08:53/eli-ca
Radium 226	2.2	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	11/11/10 13:18/eli-c
Thorium 230	0.001	pCi/L	U			1	E907.0	11/16/10 16:16/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	11/16/10 16:16/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	11/16/10 16:16/eli-c
Gross Gamma	490	pCi/L				1	E901.1	11/01/10 10:00/eli-c
Gross Gamma precision (±)	130	pCi/L				1	E901.1	11/01/10 10:00/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	1.5	pCi/L	U			1	E909.0M	12/17/10 05:36/eli-cs
Lead 210 precision (±)	1.9	pCi/L				1	E909.0M	12/17/10 05:36/eli-cs
Lead 210 MDC	3.1	pCi/L				1	E909.0M	12/17/10 05:36/eli-cs
Polonium 210	0.081	pCi/L	U			1	E912.0	11/18/10 13:12/eli-ca
Polonium 210 precision (±)	0.27	pCi/L				1	E912.0	11/18/10 13:12/eli-ca
Polonium 210 MDC	0.51	pCi/L				1	E912.0	11/18/10 13:12/eli-ca
Radium 226	0.2	pCi/L				1	E903.0	11/23/10 01:20/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	11/23/10 01:20/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10100355-002
Client Sample ID: DB-09-21-02

Report Date: 12/29/10
Collection Date: 10/25/10
Date Received: 10/26/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Radium 226 MDC	0.1	pCi/L				1	E903.0	11/23/10 01:20/eli-c
Thorium 230	-0.1	pCi/L	U			1	E907.0	11/16/10 16:13/eli-c
Thorium 230 MDC	0.3	pCi/L				1	E907.0	11/16/10 16:13/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	11/16/10 16:13/eli-c
- See Case Narrative regarding Th230 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	254	pCi/L		100		1	D5072-92	10/27/10 00:00/kl
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	11/02/10 23:48/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	11/02/10 23:48/eli-c
Barium	ND	mg/L		0.1		1	E200.7	11/04/10 01:24/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	11/02/10 23:48/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/02/10 23:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/02/10 23:48/eli-c
Chromium	ND	mg/L		0.05		1	E200.7	11/04/10 01:24/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/02/10 23:48/eli-c
Iron	0.06	mg/L		0.03		1	E200.8	11/02/10 23:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/02/10 23:48/eli-c
Manganese	0.56	mg/L		0.01		1	E200.7	11/04/10 01:24/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	10/28/10 17:06/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	11/02/10 23:48/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/02/10 23:48/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	11/02/10 23:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/02/10 23:48/eli-c
Strontium	2.0	mg/L		0.1		1	E200.8	11/02/10 23:48/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	11/02/10 23:48/eli-c
Uranium	0.0089	mg/L		0.0003		1	E200.8	11/06/10 00:22/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/02/10 23:48/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.02	%				1	A1030 E	12/07/10 00:00/jmh
Anions	17.6	meq/L				1	A1030 E	12/07/10 00:00/jmh
Cations	18.3	meq/L				1	A1030 E	12/07/10 00:00/jmh
Solids, Total Dissolved Calculated	1190	mg/L				1	A1030 E	12/07/10 00:00/jmh
TDS Balance (0.80 - 1.20)	1.03					1	A1030 E	12/07/10 00:00/jmh

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 101102A-ALK-SEL-W		
Sample ID: LCS1_101102A										
		Laboratory Control Sample					Run: PH_COND1-R_101102A		11/02/10 08:28	
Alkalinity, Total as CaCO3		1020	mg/L	5.0	102	90	110			
Sample ID: MBLK1_101102A										
		Method Blank					Run: PH_COND1-R_101102A		11/02/10 08:42	
Alkalinity, Total as CaCO3		ND	mg/L	3						
Sample ID: R10100355-001AMS										
		Sample Matrix Spike					Run: PH_COND1-R_101102A		11/02/10 08:52	
Alkalinity, Total as CaCO3		294	mg/L	5.0	117	80	120			
Sample ID: R10100355-001AMSD										
		Sample Matrix Spike Duplicate					Run: PH_COND1-R_101102A		11/02/10 08:58	
Alkalinity, Total as CaCO3		296	mg/L	5.0	119	80	120	0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B		Batch: 101027_1_COND-PROBE-W								
Sample ID: LCS1-1_101027	Laboratory Control Sample				Run: PH_COND2-R_101027A		10/27/10 16:18			
Conductivity @ 25 C	147	umhos/cm	5.0	98	90	110				
Sample ID: LCS2-1_101027	Laboratory Control Sample				Run: PH_COND2-R_101027A		10/27/10 16:33			
Conductivity @ 25 C	5010	umhos/cm	5.0	100	90	110				
Sample ID: LCS_COND-1_101027	Laboratory Control Sample				Run: PH_COND2-R_101027A		10/27/10 16:33			
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110				
Sample ID: MBLK-1_101027	Method Blank				Run: PH_COND2-R_101027A		10/27/10 16:25			
Conductivity @ 25 C	ND	umhos/cm	5							
Sample ID: R10100260-001BDUP	Sample Duplicate				Run: PH_COND2-R_101027A		10/27/10 16:36			
Conductivity @ 25 C	1480	umhos/cm	5.0		0.0	10				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 101027A-SLDS-TDS-W		
Sample ID: LCS1_101027A Laboratory Control Sample Run: BAL-4-R_101027A 10/27/10 16:11										
Solids, Total Dissolved TDS @ 180 C		220	mg/L	10	108	90	110			
Sample ID: MBLK1_101027A Method Blank Run: BAL-4-R_101027A 10/27/10 16:12										
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	3						
Sample ID: R10100319-001ADUP Sample Duplicate Run: BAL-4-R_101027A 10/27/10 16:13										
Solids, Total Dissolved TDS @ 180 C		220	mg/L	10				0.0	5	
Sample ID: R10100382-002AMS Sample Matrix Spike Run: BAL-4-R_101027A 10/27/10 16:16										
Solids, Total Dissolved TDS @ 180 C		700	mg/L	10	107	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 101101-ORP-ISE-W		
Sample ID: LCS		Laboratory Control Sample			Run: PH_COND1-R_101101A			11/01/10 17:00		
Oxidation-Reduction Potential	480	mV		101	95	105				
Sample ID: R10100355-002F		Sample Duplicate			Run: PH_COND1-R_101101A			11/01/10 17:00		
Oxidation-Reduction Potential	320	mV					2.3	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										
Batch: C_28215										
Sample ID: MB-28215		Method Blank								
Selenium-IV		ND	mg/L	0.0003						Run: SUB-C139889 11/15/10 13:39
Sample ID: LCS-28215		Laboratory Control Sample								Run: SUB-C139889 11/15/10 13:41
Selenium-IV		0.051	mg/L	0.0010	102	90	110			
Sample ID: R10100355-002E		Sample Matrix Spike								Run: SUB-C139889 11/15/10 13:48
Selenium-IV		0.057	mg/L	0.0010	115	85	115			
Sample ID: R10100355-002E		Sample Matrix Spike Duplicate								Run: SUB-C139889 11/15/10 13:50
Selenium-IV		0.055	mg/L	0.0010	111	85	115	3.5	10	
Method: A3114 B										
Batch: C_28215										
Sample ID: MB-28215		Method Blank								Run: SUB-C139895 11/15/10 14:33
Selenium		ND	mg/L	0.0002						
Sample ID: LCS-28215		Laboratory Control Sample								Run: SUB-C139895 11/15/10 14:35
Selenium		0.046	mg/L	0.0010	92	90	110			
Sample ID: R10100355-001E		Sample Matrix Spike								Run: SUB-C139895 11/15/10 14:42
Selenium		0.056	mg/L	0.0010	112	85	115			
Sample ID: R10100355-001E		Sample Matrix Spike Duplicate								Run: SUB-C139895 11/15/10 14:44
Selenium		0.055	mg/L	0.0010	110	85	115	2.1	15	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



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QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/29/10
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 101029_1_PH-W		
Sample ID: LCS_pH-1_101029		Laboratory Control Sample			Run: PH_COND2-R_101029A			10/29/10 10:42		
pH		7.43	s.u.	0.010	100	98.55	101.45			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G		Batch: A2010-11-01_2_NH3_02								
Sample ID: MBLK-2		Method Blank					Run: TECHAA2-R_101101A			11/01/10 09:26
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LFB-3		Laboratory Fortified Blank					Run: TECHAA2-R_101101A			11/01/10 09:27
Nitrogen, Ammonia as N		0.26	mg/L	0.10	105	90	110			
Sample ID: LFB-4		Laboratory Fortified Blank					Run: TECHAA2-R_101101A			11/01/10 09:28
Nitrogen, Ammonia as N		0.25	mg/L	0.10	100	90	110			
Sample ID: LFB-5		Laboratory Fortified Blank					Run: TECHAA2-R_101101A			11/01/10 09:29
Nitrogen, Ammonia as N		0.25	mg/L	0.10	101	90	110			
Sample ID: LFB-6		Laboratory Fortified Blank					Run: TECHAA2-R_101101A			11/01/10 09:30
Nitrogen, Ammonia as N		0.25	mg/L	0.10	100	90	110			
Sample ID: R10100355-001BMS		Sample Matrix Spike					Run: TECHAA2-R_101101A			11/01/10 11:35
Nitrogen, Ammonia as N		0.43	mg/L	0.10	107	80	120			
Sample ID: R10100355-001BMSD		Sample Matrix Spike Duplicate					Run: TECHAA2-R_101101A			11/01/10 11:36
Nitrogen, Ammonia as N		0.42	mg/L	0.10	104	80	120	1.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Analytical Run: SUB-C139437		
Sample ID: CRI	3	CRDL Standard for ICP								11/03/10 11:56
Barium		0.0035	mg/L	0.10	117	50	150			
Chromium		0.021	mg/L	0.050	105	50	150			
Manganese		0.0053	mg/L	0.010	106	50	150			
Sample ID: ICSA	3	Interference Check Sample A								11/03/10 12:00
Barium		0.0018	mg/L	0.10		0	0			
Chromium		0.0029	mg/L	0.050		0	0			
Manganese		-0.0065	mg/L	0.010		0	0			
Sample ID: ICSAB	3	Interference Check Sample AB								11/03/10 12:04
Barium		0.52	mg/L	0.10	103	80	120			
Chromium		0.50	mg/L	0.050	99	80	120			
Manganese		0.50	mg/L	0.010	99	80	120			
Method: E200.7								Batch: C_28033		
Sample ID: MB-28033	3	Method Blank						Run: SUB-C139437		11/04/10 00:20
Barium		0.002	mg/L	0.002						
Chromium		ND	mg/L	0.002						
Manganese		ND	mg/L	0.0008						
Sample ID: LCS3-28033	3	Laboratory Control Sample						Run: SUB-C139437		11/04/10 00:24
Barium		0.511	mg/L	0.10	102	85	115			
Chromium		0.524	mg/L	0.050	105	85	115			
Manganese		2.60	mg/L	0.010	104	85	115			
Sample ID: R10100355-002D	3	Sample Matrix Spike						Run: SUB-C139437		11/04/10 01:28
Barium		0.536	mg/L	0.10	105	70	130			
Chromium		0.523	mg/L	0.050	105	70	130			
Manganese		3.20	mg/L	0.010	106	70	130			
Sample ID: R10100355-002D	3	Sample Matrix Spike Duplicate						Run: SUB-C139437		11/04/10 01:32
Barium		0.524	mg/L	0.10	103	70	130	2.3	20	
Chromium		0.516	mg/L	0.050	103	70	130	1.3	20	
Manganese		3.17	mg/L	0.010	105	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Analytical Run: SUB-C139485		
Sample ID: CRI	2	CRDL Standard for ICP								11/04/10 11:33
Boron		0.044	mg/L	0.10	146	50	150			
Iron		0.022	mg/L	0.030	107	50	150			
Sample ID: ICSA	2	Interference Check Sample A								11/04/10 11:37
Boron		-0.35	mg/L	0.10		0	0			
Iron		190	mg/L	0.030	95	80	120			
Sample ID: ICSAB	2	Interference Check Sample AB								11/04/10 11:41
Boron		-0.38	mg/L	0.10		0	0			
Iron		190	mg/L	0.030	94	80	120			
Method: E200.7								Batch: C_R139485		
Sample ID: QCS	2	Quality Control Sample								11/04/10 11:13
Boron		1.0	mg/L	0.10	102	95	105			
Iron		5.0	mg/L	0.030	100	95	105			
Sample ID: LFB-101104A	2	Laboratory Fortified Blank								11/04/10 12:06
Boron		0.91	mg/L	0.10	91	85	115			
Iron		0.92	mg/L	0.030	92	85	115			
Sample ID: MB-101104A	2	Method Blank								11/04/10 12:16
Boron		0.01	mg/L	0.009						
Iron		ND	mg/L	0.002						
Sample ID: C10100249-001BMS2	2	Sample Matrix Spike								11/04/10 14:25
Boron		12.8	mg/L	0.10	93	70	130			
Iron		181	mg/L	0.084		70	130			A
Sample ID: C10100249-001BMSD2	2	Sample Matrix Spike Duplicate								11/04/10 14:29
Boron		13.1	mg/L	0.10	97	70	130	2.8	20	
Iron		182	mg/L	0.084		70	130	0.7	20	A
Method: E200.7								Batch: C_28033		
Sample ID: R10100355-002D	3	Sample Matrix Spike								11/06/10 10:11
Barium		0.512	mg/L	0.10	100	70	130			
Chromium		0.519	mg/L	0.050	104	70	130			
Manganese		3.17	mg/L	0.010	104	70	130			
Sample ID: R10100355-002D	3	Sample Matrix Spike Duplicate								11/06/10 10:15
Barium		0.518	mg/L	0.10	102	70	130	1.2	20	
Chromium		0.500	mg/L	0.050	100	70	130	3.7	20	
Manganese		3.06	mg/L	0.010	100	70	130	3.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Report Date: 12/29/10
Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Analytical Run: SUB-C139733		
Sample ID: CRI	4	CRDL Standard for ICP								11/10/10 12:03
Calcium		0.54	mg/L	0.50	109	50	150			
Magnesium		0.51	mg/L	0.50	102	50	150			
Potassium		0.54	mg/L	0.50	107	50	150			
Sodium		0.58	mg/L	0.50	116	50	150			
Sample ID: ICSA	4	Interference Check Sample A								11/10/10 12:07
Calcium		520	mg/L	0.50	104	80	120			
Magnesium		540	mg/L	0.50	108	80	120			
Potassium		0.0040	mg/L	0.50		0	0			
Sodium		0.11	mg/L	0.50		0	0			
Sample ID: ICSAB	4	Interference Check Sample AB								11/10/10 12:25
Calcium		500	mg/L	0.50	101	80	120			
Magnesium		540	mg/L	0.50	109	80	120			
Potassium		0.0024	mg/L	0.50		0	0			
Sodium		-0.016	mg/L	0.50		0	0			
Method: E200.7								Batch: C_R139733		
Sample ID: QCS	4	Quality Control Sample								11/10/10 11:43
Calcium		49	mg/L	0.50	98	95	105			
Magnesium		48	mg/L	0.50	96	95	105			
Potassium		50	mg/L	0.80	99	95	105			
Sodium		50	mg/L	0.50	100	95	105			
Sample ID: MB-101110A	4	Method Blank								11/10/10 12:46
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101110A	4	Laboratory Fortified Blank								11/10/10 12:50
Calcium		48	mg/L	0.50	97	85	115			
Magnesium		48	mg/L	0.50	96	85	115			
Potassium		44	mg/L	0.50	87	85	115			
Sodium		49	mg/L	0.50	97	85	115			
Sample ID: C10110303-004BMS2	4	Sample Matrix Spike								11/10/10 16:24
Calcium		342	mg/L	1.1	93	70	130			
Magnesium		269	mg/L	1.0	94	70	130			
Potassium		235	mg/L	1.0	90	70	130			
Sodium		818	mg/L	1.4	103	70	130			
Sample ID: C10110303-004BMSD2	4	Sample Matrix Spike Duplicate								11/10/10 16:29
Calcium		345	mg/L	1.1	94	70	130	1.0	20	
Magnesium		276	mg/L	1.0	97	70	130	2.6	20	
Potassium		232	mg/L	1.0	89	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R139733
Sample ID: C10110303-004BMSD2		4 Sample Matrix Spike Duplicate		Run: SUB-C139733				11/10/10 16:29		
Sodium		815	mg/L	1.4	103	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Analytical Run: SUB-C139312
Sample ID: ICV	20	Initial Calibration Verification Standard								11/01/10 12:48
Aluminum		0.0505	mg/L	0.0010	101	90	110			
Antimony		0.0533	mg/L	0.0010	107	90	110			
Arsenic		0.0492	mg/L	0.0010	98	90	110			
Barium		0.0506	mg/L	0.0010	101	90	110			
Beryllium		0.0511	mg/L	0.0010	102	90	110			
Cadmium		0.0507	mg/L	0.0010	101	90	110			
Chromium		0.0512	mg/L	0.0010	102	90	110			
Copper		0.0511	mg/L	0.0010	102	90	110			
Lead		0.0504	mg/L	0.0010	101	90	110			
Manganese		0.0503	mg/L	0.0010	101	90	110			
Mercury		0.00519	mg/L	0.0010	104	90	110			
Molybdenum		0.0517	mg/L	0.0010	103	90	110			
Nickel		0.0512	mg/L	0.0010	102	90	110			
Selenium		0.249	mg/L	0.0010	100	90	110			
Silver		0.0497	mg/L	0.0010	99	90	110			
Strontium		0.0499	mg/L	0.0010	100	90	110			
Thallium		0.0508	mg/L	0.0010	102	90	110			
Uranium		0.0502	mg/L	0.00030	100	90	110			
Vanadium		0.0516	mg/L	0.0010	103	90	110			
Zinc		0.0510	mg/L	0.0010	102	90	110			
Sample ID: ICSA	20	Interference Check Sample A								11/01/10 12:55
Aluminum		0.999	mg/L	0.0010	100	80	120			
Antimony		0.000164	mg/L	0.0010		0	0			
Arsenic		6.32E-05	mg/L	0.0010		0	0			
Barium		1.80E-06	mg/L	0.0010		0	0			
Beryllium		2.80E-06	mg/L	0.0010		0	0			
Cadmium		8.70E-06	mg/L	0.0010		0	0			
Chromium		-0.000128	mg/L	0.0010		0	0			
Copper		1.61E-05	mg/L	0.0010		0	0			
Lead		4.70E-06	mg/L	0.0010		0	0			
Manganese		2.39E-05	mg/L	0.0010		0	0			
Mercury		0.000127	mg/L	0.0010		0	0			
Molybdenum		0.0203	mg/L	0.0010	101	80	120			
Nickel		2.22E-05	mg/L	0.0010		0	0			
Selenium		0.000130	mg/L	0.0010		0	0			
Silver		6.93E-05	mg/L	0.0010		0	0			
Strontium		5.51E-05	mg/L	0.0010		0	0			
Thallium		1.41E-05	mg/L	0.0010		0	0			
Uranium		4.04E-05	mg/L	0.00030		0	0			
Vanadium		2.42E-05	mg/L	0.0010		0	0			
Zinc		5.10E-06	mg/L	0.0010		0	0			
Sample ID: IC SAB	20	Interference Check Sample AB								11/01/10 13:02
Aluminum		0.991	mg/L	0.0010	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

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MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: SUB-C139312								
Sample ID: ICSAB	20	Interference Check Sample AB								11/01/10 13:02
Antimony		1.97E-05	mg/L	0.0010		0	0			
Arsenic		0.00991	mg/L	0.0010	99	70	130			
Barium		1.66E-05	mg/L	0.0010		0	0			
Beryllium		2.00E-06	mg/L	0.0010		0	0			
Cadmium		0.0100	mg/L	0.0010	101	70	130			
Chromium		0.00994	mg/L	0.0010	99	70	130			
Copper		0.00998	mg/L	0.0010	100	70	130			
Lead		2.70E-06	mg/L	0.0010		0	0			
Manganese		0.00992	mg/L	0.0010	99	70	130			
Mercury		2.84E-05	mg/L	0.0010		0	0			
Molybdenum		0.0199	mg/L	0.0010	100	70	130			
Nickel		0.00990	mg/L	0.0010	99	70	130			
Selenium		0.000407	mg/L	0.0010		0	0			
Silver		0.0101	mg/L	0.0010	101	70	130			
Strontium		4.97E-05	mg/L	0.0010		0	0			
Thallium		1.20E-06	mg/L	0.0010		0	0			
Uranium		1.24E-05	mg/L	0.00030		0	0			
Vanadium		-0.000197	mg/L	0.0010		0	0			
Zinc		0.00988	mg/L	0.0010	99	70	130			

Method: E200.8		Batch: C_R139312									
Sample ID: LRB	20	Method Blank								Run: SUB-C139312	11/01/10 13:43
Aluminum		0.002	mg/L	0.0001							
Antimony		ND	mg/L	7E-05							
Arsenic		ND	mg/L	6E-05							
Barium		9E-05	mg/L	3E-05							
Beryllium		ND	mg/L	3E-05							
Cadmium		2E-05	mg/L	1E-05							
Chromium		ND	mg/L	4E-05							
Copper		0.001	mg/L	7E-05							
Lead		3E-05	mg/L	3E-05							
Manganese		8E-05	mg/L	5E-05							
Mercury		ND	mg/L	8E-05							
Molybdenum		ND	mg/L	5E-05							
Nickel		0.001	mg/L	0.0007							
Selenium		0.0003	mg/L	0.0002							
Silver		ND	mg/L	3E-05							
Strontium		0.0001	mg/L	3E-05							
Thallium		ND	mg/L	1E-05							
Uranium		2E-05	mg/L	1E-05							
Vanadium		ND	mg/L	3E-05							
Zinc		0.008	mg/L	0.0003							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8											
Batch: C_R139312											
Sample ID: LFB	20	Laboratory Fortified Blank			Run: SUB-C139312			11/01/10 13:49			
Aluminum		0.0525	mg/L	0.0010	101	85	115				
Antimony		0.0524	mg/L	0.0010	105	85	115				
Arsenic		0.0533	mg/L	0.0010	107	85	115				
Barium		0.0532	mg/L	0.0010	106	85	115				
Beryllium		0.0518	mg/L	0.0010	104	85	115				
Cadmium		0.0530	mg/L	0.0010	106	85	115				
Chromium		0.0520	mg/L	0.0010	104	85	115				
Copper		0.0539	mg/L	0.0010	105	85	115				
Lead		0.0530	mg/L	0.0010	106	85	115				
Manganese		0.0520	mg/L	0.0010	104	85	115				
Mercury		0.00527	mg/L	0.0010	105	85	115				
Molybdenum		0.0532	mg/L	0.0010	106	85	115				
Nickel		0.0539	mg/L	0.0010	105	85	115				
Selenium		0.0538	mg/L	0.0010	107	85	115				
Silver		0.0209	mg/L	0.0010	104	85	115				
Strontium		0.0537	mg/L	0.0010	107	85	115				
Thallium		0.0532	mg/L	0.0010	106	85	115				
Uranium		0.0525	mg/L	0.00030	105	85	115				
Vanadium		0.0520	mg/L	0.0010	104	85	115				
Zinc		0.0557	mg/L	0.0010	96	85	115				
Sample ID: C10101139-001CMS4	20	Post Digestion Spike			Run: SUB-C139312			11/01/10 19:58			
Aluminum		0.0439	mg/L	0.0010	86	70	130				
Antimony		0.0627	mg/L	0.050	115	70	130				
Arsenic		0.101	mg/L	0.0010	105	70	130				
Barium		0.105	mg/L	0.10	109	70	130				
Beryllium		0.0418	mg/L	0.010	84	70	130				
Cadmium		0.0468	mg/L	0.010	93	70	130				
Chromium		0.0439	mg/L	0.0010	80	70	130				
Copper		0.0686	mg/L	0.010	95	70	130				
Lead		0.0561	mg/L	0.050	111	70	130				
Manganese		0.0737	mg/L	0.010	80	70	130				
Mercury		0.00542	mg/L	0.0010	108	70	130				
Molybdenum		0.451	mg/L	0.10	70	130				A	
Nickel		0.0810	mg/L	0.050	98	70	130				
Selenium		0.177	mg/L	0.0010	97	70	130				
Silver		0.0154	mg/L	0.010	77	70	130				
Strontium		2.44	mg/L	0.10	70	130				A	
Thallium		0.0553	mg/L	0.0010	109	70	130				
Uranium		1.03	mg/L	0.00030	70	130				A	
Vanadium		0.813	mg/L	0.10	70	130				A	
Zinc		0.0563	mg/L	0.010	88	70	130				
Sample ID: C10101139-001CMSD4	20	Post Digestion Spike Duplicate			Run: SUB-C139312			11/01/10 20:05			
Aluminum		0.0454	mg/L	0.0010	89	70	130	3.4	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R139312
Sample ID: C10101139-001CMSD4 20 Post Digestion Spike Duplicate										Run: SUB-C139312
										11/01/10 20:05
Antimony		0.0622	mg/L	0.050	114	70	130	0.9	20	
Arsenic		0.0996	mg/L	0.0010	102	70	130	1.6	20	
Barium		0.106	mg/L	0.10	110	70	130	0.5	20	
Beryllium		0.0431	mg/L	0.010	86	70	130	2.9	20	
Cadmium		0.0472	mg/L	0.010	93	70	130	0.9	20	
Chromium		0.0448	mg/L	0.0010	82	70	130	2.1	20	
Copper		0.0679	mg/L	0.010	94	70	130	1.0	20	
Lead		0.0560	mg/L	0.050	111	70	130	0.3	20	
Manganese		0.0757	mg/L	0.010	84	70	130	2.7	20	
Mercury		0.00554	mg/L	0.0010	111	70	130	2.1	20	
Molybdenum		0.452	mg/L	0.10		70	130	0.3	20	A
Nickel		0.0799	mg/L	0.050	96	70	130	1.3	20	
Selenium		0.173	mg/L	0.0010	89	70	130	2.2	20	
Silver		0.0151	mg/L	0.010	76	70	130	1.4	20	
Strontium		2.44	mg/L	0.10		70	130	0.1	20	A
Thallium		0.0559	mg/L	0.0010	110	70	130	1.0	20	
Uranium		1.02	mg/L	0.00030		70	130	1.2	20	A
Vanadium		0.839	mg/L	0.10		70	130	3.1	20	A
Zinc		0.0559	mg/L	0.010	88	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: C_28033										
Sample ID: MB-28033	15	Method Blank								
							Run: SUB-C139366			11/02/10 21:10
Antimony		ND	mg/L	0.0003						
Arsenic		0.0008	mg/L	5E-05						
Beryllium		ND	mg/L	3E-05						
Boron		0.009	mg/L	0.003						
Cadmium		ND	mg/L	4E-05						
Copper		0.001	mg/L	5E-05						
Iron		0.002	mg/L	0.001						
Lead		9E-05	mg/L	5E-05						
Molybdenum		0.0005	mg/L	0.00010						
Nickel		0.0001	mg/L	4E-05						
Selenium		0.0003	mg/L	3E-05						
Silver		0.0001	mg/L	4E-05						
Strontium		ND	mg/L	6E-05						
Thallium		0.001	mg/L	0.0001						
Zinc		0.002	mg/L	0.001						
Sample ID: LCS3-28033	15	Laboratory Control Sample								
							Run: SUB-C139366			11/02/10 21:17
Antimony		0.616	mg/L	0.050	123	85	115			S
Arsenic		0.513	mg/L	0.0010	102	85	115			
Beryllium		0.240	mg/L	0.010	96	85	115			
Boron		0.440	mg/L	0.10	86	85	115			
Cadmium		0.275	mg/L	0.010	110	85	115			
Copper		0.471	mg/L	0.010	94	85	115			
Iron		2.14	mg/L	0.030	86	85	115			
Lead		0.517	mg/L	0.050	103	85	115			
Molybdenum		0.462	mg/L	0.10	92	85	115			
Nickel		0.474	mg/L	0.050	95	85	115			
Selenium		0.562	mg/L	0.0010	112	85	115			
Silver		0.0492	mg/L	0.010	98	85	115			
Strontium		0.447	mg/L	0.10	89	85	115			
Thallium		0.501	mg/L	0.10	100	85	115			
Zinc		0.515	mg/L	0.010	103	85	115			
Sample ID: R10100355-002D	15	Sample Matrix Spike								
							Run: SUB-C139366			11/02/10 23:55
Antimony		0.615	mg/L	0.050	123	70	130			
Arsenic		0.506	mg/L	0.0010	101	70	130			
Beryllium		0.216	mg/L	0.010	87	70	130			
Boron		0.454	mg/L	0.10	78	70	130			
Cadmium		0.262	mg/L	0.010	105	70	130			
Copper		0.457	mg/L	0.010	91	70	130			
Iron		2.23	mg/L	0.030	87	70	130			
Lead		0.528	mg/L	0.050	106	70	130			
Molybdenum		0.481	mg/L	0.10	96	70	130			
Nickel		0.461	mg/L	0.050	92	70	130			
Selenium		0.534	mg/L	0.0010	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8 Batch: C_28033										
Sample ID: R10100355-002D	15	Sample Matrix Spike				Run: SUB-C139366				11/02/10 23:55
Silver		0.0471	mg/L	0.010	94	70	130			
Strontium		2.48	mg/L	0.10	105	70	130			
Thallium		0.505	mg/L	0.10	101	70	130			
Zinc		0.464	mg/L	0.010	92	70	130			
Sample ID: R10100355-002D 11/03/10 00:02										
	15	Sample Matrix Spike Duplicate				Run: SUB-C139366				
Antimony		0.537	mg/L	0.050	107	70	130	14	20	
Arsenic		0.507	mg/L	0.0010	101	70	130	0.2	20	
Beryllium		0.216	mg/L	0.010	86	70	130	0.1	20	
Boron		0.456	mg/L	0.10	79	70	130	0.6	20	
Cadmium		0.254	mg/L	0.010	101	70	130	3.1	20	
Copper		0.468	mg/L	0.010	93	70	130	2.4	20	
Iron		2.21	mg/L	0.030	86	70	130	0.8	20	
Lead		0.513	mg/L	0.050	103	70	130	2.8	20	
Molybdenum		0.418	mg/L	0.10	83	70	130	14	20	
Nickel		0.463	mg/L	0.050	92	70	130	0.4	20	
Selenium		0.532	mg/L	0.0010	106	70	130	0.5	20	
Silver		0.0464	mg/L	0.010	93	70	130	1.4	20	
Strontium		2.42	mg/L	0.10	94	70	130	2.2	20	
Thallium		0.493	mg/L	0.10	99	70	130	2.4	20	
Zinc		0.465	mg/L	0.010	93	70	130	0.1	20	
Method: E200.8 Analytical Run: SUB-C139573										
Sample ID: ICV		Initial Calibration Verification Standard								11/05/10 12:23
Uranium		0.0498	mg/L	0.00030	100	90	110			
Sample ID: ICSA		Interference Check Sample A								11/05/10 12:30
Uranium		3.56E-05	mg/L	0.00030		0	0			
Sample ID: ICSAB		Interference Check Sample AB								11/05/10 12:37
Uranium		8.10E-06	mg/L	0.00030		0	0			
Method: E200.8 Batch: C_28033										
Sample ID: MB-28033		Method Blank				Run: SUB-C139573				11/05/10 23:14
Uranium		ND	mg/L	4E-05						
Sample ID: LCS3-28033		Laboratory Control Sample				Run: SUB-C139573				11/05/10 23:21
Uranium		0.566	mg/L	0.00030	113	85	115			
Sample ID: R10100355-002D		Sample Matrix Spike				Run: SUB-C139573				11/06/10 00:29
Uranium		0.597	mg/L	0.00030	118	70	130			
Sample ID: R10100355-002D		Sample Matrix Spike Duplicate				Run: SUB-C139573				11/06/10 00:35
Uranium		0.582	mg/L	0.00030	115	70	130	2.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R139687A		
Sample ID: C10110303-019BMS4		4 Post Digestion Spike		Run: SUB-C139687		11/10/10 02:22				
Boron		0.596	mg/L	0.10		70	130			A
Iron		1.40	mg/L	0.030	111	70	130			
Silicon		7.79	mg/L	0.10		70	130			A
Thorium 232		0.0542	mg/L	0.0010	108	70	130			
Sample ID: C10110303-019BMSD4		4 Post Digestion Spike Duplicate		Run: SUB-C139687		11/10/10 02:29				
Boron		0.598	mg/L	0.10		70	130	0.4	20	A
Iron		1.42	mg/L	0.030	113	70	130	1.5	20	
Silicon		7.84	mg/L	0.10		70	130	0.6	20	A
Thorium 232		0.0541	mg/L	0.0010	108	70	130	0.2	20	
Sample ID: LRB		4 Method Blank		Run: SUB-C139687		11/09/10 14:18				
Silicon		ND	mg/L	0.0005						
Boron		-0.001	mg/L							
Iron		ND	mg/L	0.0001						
Thorium 232		ND	mg/L	3E-05						
Sample ID: LFB		4 Laboratory Fortified Blank		Run: SUB-C139687		11/09/10 14:25				
Silicon		0.579	mg/L	0.0050	111	85	115			
Boron		0.0529	mg/L	0.0010	109	85	115			
Iron		1.34	mg/L	0.012	108	85	115			
Thorium 232		0.0521	mg/L	0.0010	104	85	115			
Method: E200.8								Analytical Run: SUB-C140426		
Sample ID: ICV		Initial Calibration Verification Standard		Run: SUB-C140426		11/30/10 11:59				
Uranium		0.0514	mg/L	0.00030	103	90	110			
Method: E200.8								Batch: C_28164		
Sample ID: MB-28164		Method Blank		Run: SUB-C140426		11/30/10 17:49				
Uranium		ND	mg/L	6E-05						
Sample ID: LCS2-28164		Laboratory Control Sample		Run: SUB-C140426		11/30/10 17:53				
Uranium		0.104	mg/L	0.00030	104	85	115			
Sample ID: R10100355-002I		Post Digestion Spike		Run: SUB-C140426		11/30/10 18:26				
Uranium		0.0137	mg/L	0.00030	104	70	130			
Sample ID: R10100355-002I		Post Digestion Spike Duplicate		Run: SUB-C140426		11/30/10 18:30				
Uranium		0.0133	mg/L	0.00030	101	70	130	3.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1								Analytical Run: SUB-B156309		
Sample ID: QCS		Initial Calibration Verification Standard								
Mercury		0.0020	mg/L	0.00020	101	90	110			10/28/10 16:00
Method: E245.1								Batch: B_50118		
Sample ID: MB-50118		Method Blank								
Mercury		4E-05	mg/L	1E-05						10/28/10 16:10
Sample ID: LCS-50118		Laboratory Control Sample								
Mercury		0.0018	mg/L	0.00020	86	85	115			10/28/10 16:11
Sample ID: B10102325-001BMS		Sample Matrix Spike								
Mercury		0.0019	mg/L	0.00010	95	70	130			10/28/10 16:56
Sample ID: B10102325-001BMSD		Sample Matrix Spike Duplicate								
Mercury		0.0019	mg/L	0.00010	95	70	130	0.0	30	10/28/10 16:58

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R48774
Sample ID: LFB102610-14										10/26/10 21:12
5		Laboratory Fortified Blank			Run: DIONEX_101026A					
Chloride		39.4	mg/L	1.00	99	90	110			
Fluoride		4.08	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N		3.98	mg/L	0.10	100	90	110			
Nitrogen, Nitrite as N		4.05	mg/L	0.10	101	90	110			
Sulfate		39.2	mg/L	1.0	98	90	110			
Sample ID: R10100355-001AMS										10/26/10 21:48
5		Sample Matrix Spike			Run: DIONEX_101026A					
Chloride		802	mg/L	20	94	90	110			
Fluoride		82.3	mg/L	2.0	99	90	110			
Nitrogen, Nitrate as N		80.3	mg/L	2.0	100	90	110			
Nitrogen, Nitrite as N		81.8	mg/L	2.0	102	90	110			
Sulfate		1290	mg/L	20	96	90	110			
Sample ID: R10100355-001AMSD										10/26/10 22:05
5		Sample Matrix Spike Duplicate			Run: DIONEX_101026A					
Chloride		794	mg/L	20	93	90	110	1.0	10	
Fluoride		81.5	mg/L	2.0	98	90	110	1.1	10	
Nitrogen, Nitrate as N		79.5	mg/L	2.0	99	90	110	0.9	10	
Nitrogen, Nitrite as N		80.8	mg/L	2.0	101	90	110	1.2	10	
Sulfate		1280	mg/L	20	95	90	110	0.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-1022		
Sample ID: MB-GrAB-1022	6	Method Blank					Run: SUB-C141279		12/27/10 23:05	
Gross Alpha		-2	pCi/L							U
Gross Alpha precision (±)		0.7	pCi/L							
Gross Alpha MDC		0.9	pCi/L							
Gross Beta		-1	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-1022		Laboratory Control Sample					Run: SUB-C141279		12/27/10 23:05	
Gross Alpha		110	pCi/L	107		70	130			
Sample ID: Cs137-GrAB-1022		Laboratory Control Sample					Run: SUB-C141279		12/27/10 23:05	
Gross Beta		76	pCi/L	88		70	130			
Sample ID: C10120494-001FDUP	6	Sample Duplicate					Run: SUB-C141279		12/27/10 23:05	
Gross Alpha		-7.4	pCi/L					18	79	U
Gross Alpha precision (±)		2.3	pCi/L							
Gross Alpha MDC		3.0	pCi/L							
Gross Beta		2.0	pCi/L					130	266.4	
Gross Beta precision (±)		1.9	pCi/L							
Gross Beta MDC		1.9	pCi/L							
Sample ID: C10120742-001DMS		Sample Matrix Spike					Run: SUB-C141279		12/28/10 11:23	
Gross Alpha		230	pCi/L	134		70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.										
Sample ID: C10120742-001DMSD		Sample Matrix Spike Duplicate					Run: SUB-C141279		12/28/10 11:23	
Gross Alpha		230	pCi/L	137		70	130	1.5	16.3	S
Sample ID: C10120742-001DMS		Sample Matrix Spike					Run: SUB-C141279		12/28/10 11:23	
Gross Beta		110	pCi/L	95		70	130			
Sample ID: C10120742-001DMSD		Sample Matrix Spike Duplicate					Run: SUB-C141279		12/28/10 11:23	
Gross Beta		120	pCi/L	103		70	130	6.1	14.9	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1								Batch: C_R139341		
Sample ID: LCS-R139341	3	Laboratory Control Sample				Run: SUB-C139341				11/01/10 10:00
Americium 241		700	pCi/L	20	87	70	130			
Cesium 137		980	pCi/L	20	97	70	130			
Potassium 40		6600	pCi/L	20	98	70	130			
Sample ID: MB-R139341	23	Method Blank				Run: SUB-C139341				11/01/10 10:00
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		500	pCi/L							
Thorium 234 precision (±)		80	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		500	pCi/L							
Gross Gamma precision (±)		80	pCi/L							
- See Case Narrative regarding Gross Gamma analysis.										
Sample ID: R10100355-002H	23	Sample Duplicate				Run: SUB-C139341				11/01/10 10:00
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1								Batch: C_R139341		
Sample ID: R10100355-002H		23 Sample Duplicate		Run: SUB-C139341				11/01/10 10:00		
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		470	pCi/L	20				5.1	30	
Thorium 234 precision (±)		130	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		470	pCi/L					5.1	30	
Gross Gamma precision (±)		130	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										
Batch: C_RA226-4959										
Sample ID: C10101041-008DMS		Sample Matrix Spike					Run: SUB-C139874			11/11/10 11:45
Radium 226		18.6	pCi/L		115	70	130			
Sample ID: C10101041-008DMSD		Sample Matrix Spike Duplicate					Run: SUB-C139874			11/11/10 11:45
Radium 226		20.1	pCi/L		125	70	130	7.7	24.6	
Sample ID: MB-RA226-4959	3	Method Blank					Run: SUB-C139874			11/11/10 13:18
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4959		Laboratory Control Sample					Run: SUB-C139874			11/11/10 13:18
Radium 226		11	pCi/L		141	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, and MSD are acceptable the batch is approved.										
Method: E903.0										
Batch: C_R140270										
Sample ID: R10100355-001I		Sample Matrix Spike					Run: SUB-C140270			11/23/10 01:20
Radium 226		19	pCi/L		98	70	130			
Sample ID: R10100355-001I		Sample Matrix Spike Duplicate					Run: SUB-C140270			11/23/10 01:20
Radium 226		22	pCi/L		113	70	130	14	21.9	
Sample ID: LCS-28164		Laboratory Control Sample					Run: SUB-C140270			11/23/10 01:21
Radium 226		18	pCi/L		116	70	130			
Sample ID: MB-28164	3	Method Blank					Run: SUB-C140270			11/23/10 01:21
Radium 226		0.4	pCi/L							
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										
Batch: C_28164										
Sample ID: R10100355-002I		Sample Matrix Spike					Run: SUB-C140085			11/16/10 16:13
Thorium 230		13	pCi/L		105	70	130			
Sample ID: R10100355-002I		Sample Matrix Spike Duplicate					Run: SUB-C140085			11/16/10 16:13
Thorium 230		10	pCi/L		83	70	130	25	46.6	
Sample ID: LCS-28164		Laboratory Control Sample					Run: SUB-C140085			11/16/10 16:13
Thorium 230		5.6	pCi/L		116	70	130			
Sample ID: MB-28164	3	Method Blank					Run: SUB-C140085			11/16/10 16:13
Thorium 230		-0.10	pCi/L							U
Thorium 230 MDC		0.3	pCi/L							
Thorium 230 precision (±)		0.2	pCi/L							
Method: E907.0										
Batch: C_RA-TH-ISO-1285										
Sample ID: LCS-RA-TH-ISO-1285		Laboratory Control Sample					Run: SUB-C140086			11/16/10 16:16
Thorium 230		5.4	pCi/L		94	70	130			
Sample ID: R10100355-002H		Sample Matrix Spike					Run: SUB-C140086			11/16/10 16:16
Thorium 230		13	pCi/L		100	70	130			
Sample ID: R10100355-002H		Sample Matrix Spike Duplicate					Run: SUB-C140086			11/16/10 16:16
Thorium 230		13	pCi/L		100	70	130	0.0	40.8	
Sample ID: MB-RA-TH-ISO-1285	3	Method Blank					Run: SUB-C140086			11/17/10 15:57
Thorium 230		0.01	pCi/L							U
Thorium 230 MDC		0.1	pCi/L							
Thorium 230 precision (±)		0.05	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M								Analytical Run: SUB-T37761		
Sample ID: STD-PB-210-0038	3	Continuing Calibration Verification Standard								11/19/10 19:53
Lead 210		32	pCi/L			70	130	0.0	30	
Lead 210 precision (±)		1.3	pCi/L			0	0			
Lead 210 MDC		1.4	pCi/L			0	0			
Method: E909.0M								Batch: T_PB-210-0038		
Sample ID: MB-PB-210-0038	3	Method Blank				Run: SUB-T37761				11/19/10 17:42
Lead 210		-0.4	pCi/L							U
Lead 210 precision (±)		0.9	pCi/L							
Lead 210 MDC		1	pCi/L							
Sample ID: LCS-PB-210-0038		Laboratory Control Sample				Run: SUB-T37761				11/19/10 22:05
Lead 210		53	pCi/L		97	70	130			
Sample ID: T10110006-001BMS		Sample Matrix Spike				Run: SUB-T37761				11/20/10 02:28
Lead 210		100	pCi/L		93	70	130			
Sample ID: T10110006-001BMSD		Sample Matrix Spike Duplicate				Run: SUB-T37761				11/20/10 04:39
Lead 210		95	pCi/L		88	70	130	6.3	15.9	
Method: E909.0M								Batch: T_PB-210-0055		
Sample ID: MB-12635	3	Method Blank				Run: SUB-T38122				12/16/10 16:28
Lead 210		1	pCi/L							U
Lead 210 precision (±)		9	pCi/L							
Lead 210 MDC		10	pCi/L							
Sample ID: LCS-12635		Laboratory Control Sample				Run: SUB-T38122				12/16/10 20:51
Lead 210		440	pCi/L		81	70	130			
Sample ID: R10100355-001I		Sample Matrix Spike				Run: SUB-T38122				12/17/10 01:14
Lead 210		480	pCi/L		87	70	130			
Sample ID: R10100355-001I		Sample Matrix Spike Duplicate				Run: SUB-T38122				12/17/10 03:25
Lead 210		460	pCi/L		85	70	130	2.7	16.2	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc

Report Date: 12/29/10

Project: Dewey Groundwater Sampling

Work Order: R10100355

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										
Batch: C_PO210-0325										
Sample ID: C10100987-001CMS		Sample Matrix Spike				Run: SUB-C139964				11/11/10 08:53
Polonium 210		34	pCi/L	105		70	130			
Sample ID: C10100987-001CMSD		Sample Matrix Spike Duplicate				Run: SUB-C139964				11/11/10 08:53
Polonium 210		34	pCi/L	106		70	130	1.0	56.3	
Sample ID: MB-PO210-0325	3	Method Blank				Run: SUB-C139964				11/11/10 08:53
Polonium 210		0.09	pCi/L							U
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.3	pCi/L							
Sample ID: LCS-PO210-0325		Laboratory Control Sample				Run: SUB-C139964				11/11/10 08:53
Polonium 210		15	pCi/L	90		70	130			
Method: E912.0										
Batch: C_PO210-0327										
Sample ID: C10110253-006DMS		Sample Matrix Spike				Run: SUB-C140163				11/18/10 13:12
Polonium 210		31	pCi/L	96		70	130			
Sample ID: C10110253-006DMSD		Sample Matrix Spike Duplicate				Run: SUB-C140163				11/18/10 13:12
Polonium 210		32	pCi/L	98		70	130	2.3	59	
Sample ID: LCS-PO210-0327		Laboratory Control Sample				Run: SUB-C140163				11/18/10 13:12
Polonium 210		15	pCi/L	90		70	130			
Sample ID: MB-PO210-0327	3	Method Blank				Run: SUB-C140163				11/18/10 13:12
Polonium 210		0.08	pCi/L							U
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



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Page ___ of ___

PLEASE PRINT (Provide as much information as possible.)

Company Name: **Scott Env.**
 Project Name, PWS, Permit, Etc.: **PowerTech Dewey Burdock**
 State: _____ EPA/State Compliance: Yes No
 Report Mail Address: **Scott Env. / PowerTech**
 Contact Name: **Allen Scott** Phone/Fax: **673-4459** Email: _____
 Invoice Address: **PowerTech, Inc. USA**
 Invoice Contact & Phone: _____ Purchase Order: _____
 Special Report/Formats: _____ Quote/Bottle Order: _____

Special Report/Formats: _____
 DW EDD/EDT (Electronic Data)
 POTW/WWTP Format: _____
 State: _____ LEVEL IV
 Other: _____ NELAC
 Number of Containers: _____
 Sample Type: AWS V B O DW
 Air Water Coils/Solids
 Vegetation Bioassay Other
 DW - Drinking Water
 ANALYSIS REQUESTED
 SEE ATTACHED
 Standard Turnaround (TAT)
R U S H
 Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page
 Comments: _____
 Shipped by: _____
 Cooler ID(s): _____
 Receipt Temp: **3.8** °C
 On Ice: Y N
 Custody Seal: _____
 On Bottle: Y N
 On Cover: Y N
 In tact: Y N
 Signature: _____
 Match: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Signature	Date/Time	Received by (print)	Date/Time	Signature	Date/Time	Signature
1 08-09-21-01	10-25-10		Water							
2 08-09-21-02	10-25-10		Water							
3										
4										
5										
6										
7										
8										
9										
10										

Reinquisitioned by (print): **Allen Scott** Date/Time: **10-26-10 8:52** Signature: **Allen Scott**
 Requisitioned by (print): _____ Date/Time: _____ Signature: _____
 Sample Disposal: Return to Client: _____ Lab Disposal: _____
 Received by (print): **Steve Froland** Date/Time: **10-26-10 8:58** Signature: **Steve Froland**
 Received by (print): _____ Date/Time: _____ Signature: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

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ANALYTICAL SUMMARY REPORT

February 14, 2011

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10110179

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. Rapid City SD received the following 3 samples for Powertech USA Inc on 11/15/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10110179-001	DB-09-21-01	11/15/10 0:00	11/15/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10110179-002	DB-09-21-02	11/15/10 0:00	11/15/10	Aqueous	Same As Above
R10110179-003	DB-09-21-02 Dup	11/15/10 0:00	11/15/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2011.02.14 13:37:50 -07:00



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10110179

Revised Date: 02/14/11

Report Date: 01/05/11

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.

Comments imported for SUBBED Workorder: C10110686

GROSS GAMMA ANALYSIS

The gamma spectrometry software has identified Thorium 234 as a potential component of this sample. The value generated by the software has been reported here. However, the Thorium 234 gamma ray peaks reside in the middle of excessive background contributions from Compton scatter, x-rays from thorium, and interfering gamma ray peaks from other naturally occurring radionuclides present in the metal can and sample. This means that the value for Thorium 234 likely has a positive bias. The only method to determine the actual concentration of Th-234 would be by radiochemical separation of thorium and gamma spectrometric analysis on the isolate thorium fraction.

End of comments imported for SUBBED Workorder: C10110686

Comments imported for SUBBED Workorder: T10110102

Prep Comments for Sample R10110179-001I, Test PRP-3050-F-T: The prep hold time was exceeded by 29.5 days. The prep hold time was exceeded by 23.3 days.

Prep Comments for Sample R10110179-002I, Test PRP-3050-F-T: The prep hold time was exceeded by 29.5 days. The prep hold time was exceeded by 23.3 days.

Prep Comments for Sample R10110179-003I, Test PRP-3050-F-T: The prep hold time was exceeded by 29.5 days. The prep hold time was exceeded by 23.3 days.

End of comments imported for SUBBED Workorder: T10110102

Revised report issued for PB210 recheck on DB09-21-02 sample.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Collection Date: 11/15/10

Lab ID: R10110179-001

Date Received: 11/15/10

Client Sample ID: DB-09-21-01

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	166	mg/L		5		A2320 B	11/19/10 16:20/hv
Carbonate as CO3	ND	mg/L		5		A2320 B	11/19/10 16:20/hv
Bicarbonate as HCO3	202	mg/L		5		A2320 B	11/19/10 16:20/hv
Calcium	91.4	mg/L		0.5		E200.7	11/30/10 17:46/eli-c
Chloride	8	mg/L		1		E300.0	11/16/10 22:55/jmh
Fluoride	0.5	mg/L		0.1		E300.0	11/16/10 22:55/jmh
Magnesium	33.4	mg/L		0.5		E200.7	11/30/10 17:46/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		A4500-NH3 G	11/18/10 15:43/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		E300.0	11/16/10 22:55/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		E300.0	11/16/10 22:55/jmh
Potassium	11.8	mg/L		0.5		E200.7	11/30/10 17:46/eli-c
Sodium	157	mg/L	D	0.6		E200.7	11/30/10 17:46/eli-c
Sulfate	548	mg/L	D	10		E300.0	11/16/10 22:02/jmh
Silica	8.8	mg/L		0.2		E200.8	11/30/10 03:30/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1300	umhos/cm		5.0		A2510 B	11/22/10 14:56/tb
Oxidation-Reduction Potential	210	mV				A2580 B	11/22/10 18:00/jmh
pH	7.63	s.u.		0.01		A4500-H B	11/19/10 14:10/tb
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		Calculation	12/21/10 17:26/ADM
Solids, Total Dissolved TDS @ 180 C	990	mg/L	D	10		A2540 C	11/22/10 11:21/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	11/30/10 03:30/eli-c
Arsenic	0.001	mg/L		0.001		E200.8	11/30/10 03:30/eli-c
Barium	ND	mg/L		0.1		E200.8	11/30/10 03:30/eli-c
Boron	ND	mg/L		0.1		E200.8	11/30/10 03:30/eli-c
Cadmium	ND	mg/L		0.005		E200.8	11/30/10 03:30/eli-c
Chromium	ND	mg/L		0.05		E200.8	11/30/10 03:30/eli-c
Copper	ND	mg/L		0.01		E200.8	11/30/10 03:30/eli-c
Iron	ND	mg/L		0.03		E200.8	11/30/10 03:30/eli-c
Lead	ND	mg/L		0.001		E200.8	11/30/10 03:30/eli-c
Manganese	0.05	mg/L		0.01		E200.8	11/30/10 03:30/eli-c
Mercury	ND	mg/L		0.001		E200.8	11/30/10 03:30/eli-c
Molybdenum	ND	mg/L		0.1		E200.8	11/30/10 03:30/eli-c
Nickel	ND	mg/L		0.05		E200.8	11/30/10 03:30/eli-c
Selenium	ND	mg/L		0.001		A3114 B	11/22/10 13:10/eli-c
Silver	ND	mg/L		0.005		E200.8	11/30/10 03:30/eli-c
Thorium 232	ND	mg/L		0.005		E200.8	11/30/10 03:30/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Collection Date: 11/15/10

Lab ID: R10110179-001

Date Received: 11/15/10

Client Sample ID: DB-09-21-01

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 03:30/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/30/10 03:30/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/30/10 03:30/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 17:24/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/22/10 11:41/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/22/10 13:55/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	0.7	pCi/L	U			1	E900.0	12/02/10 21:28/eli-ca
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	12/02/10 21:28/eli-ca
Gross Alpha MDC	6.0	pCi/L				1	E900.0	12/02/10 21:28/eli-ca
Gross Beta	10.7	pCi/L				1	E900.0	12/02/10 21:28/eli-ca
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	12/02/10 21:28/eli-ca
Gross Beta MDC	5.3	pCi/L				1	E900.0	12/02/10 21:28/eli-ca
Lead 210	1	pCi/L	U			1	E909.0M	12/15/10 23:53/eli-cs
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	12/15/10 23:53/eli-cs
Lead 210 MDC	1.7	pCi/L				1	E909.0M	12/15/10 23:53/eli-cs
Polonium 210	-0.012	pCi/L	U			1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 MDC	0.52	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 precision (±)	0.20	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Radium 226	2.0	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 MDC	0.06	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Thorium 230	-0.03	pCi/L	U			1	E907.0	12/06/10 09:46/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Gross Gamma	650	pCi/L				1	E901.1	11/18/10 15:20/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	11/18/10 15:20/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	1.3	pCi/L	U			1	E909.0M	12/30/10 01:16/eli-cs
Lead 210 precision (±)	2.0	pCi/L				1	E909.0M	12/30/10 01:16/eli-cs
Lead 210 MDC	3.3	pCi/L				1	E909.0M	12/30/10 01:16/eli-cs
Polonium 210	0.078	pCi/L	U			1	E912.0	12/01/10 09:34/eli-ca
Polonium 210 precision (±)	0.31	pCi/L				1	E912.0	12/01/10 09:34/eli-ca

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Collection Date: 11/15/10

Lab ID: R10110179-001

Date Received: 11/15/10

Client Sample ID: DB-09-21-01

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Polonium 210 MDC	0.62	pCi/L				1 E912.0	12/01/10 09:34/eli-ca
Radium 226	0.2	pCi/L				1 E903.0	12/06/10 16:46/eli-c
Radium 226 precision (±)	0.1	pCi/L				1 E903.0	12/06/10 16:46/eli-c
Radium 226 MDC	0.1	pCi/L				1 E903.0	12/06/10 16:46/eli-c
Thorium 230	-0.2	pCi/L	U			1 E907.0	12/02/10 16:26/eli-c
Thorium 230 MDC	0.2	pCi/L				1 E907.0	12/02/10 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	12/02/10 16:26/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	532	pCi/L		100		1 D5072-92	11/18/10 15:53/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	11/30/10 14:43/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	11/30/10 14:43/eli-c
Barium	ND	mg/L		0.1		1 E200.8	11/30/10 14:43/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	11/30/10 14:43/eli-c
Boron	ND	mg/L		0.1		1 E200.8	11/30/10 14:43/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	11/30/10 14:43/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	11/30/10 14:43/eli-c
Copper	ND	mg/L		0.01		1 E200.8	11/30/10 14:43/eli-c
Iron	0.26	mg/L		0.03		1 E200.8	11/30/10 14:43/eli-c
Lead	ND	mg/L		0.001		1 E200.8	11/30/10 14:43/eli-c
Manganese	0.05	mg/L		0.01		1 E200.8	11/30/10 14:43/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	11/18/10 15:10/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	11/30/10 14:43/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	11/30/10 14:43/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	11/30/10 14:43/eli-c
Silver	ND	mg/L		0.005		1 E200.8	11/30/10 14:43/eli-c
Strontium	2.6	mg/L		0.1		1 E200.8	11/30/10 14:43/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	11/30/10 14:43/eli-c
Uranium	0.0003	mg/L		0.0003		1 E200.8	11/30/10 14:43/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	11/30/10 14:43/eli-c
DATA QUALITY							
A/C Balance (± 5)	-1.85	%				1 A1030 E	12/31/10 00:00/lkl
Anions	15.0	meq/L				1 A1030 E	12/31/10 00:00/lkl
Cations	14.4	meq/L				1 A1030 E	12/31/10 00:00/lkl
Solids, Total Dissolved Calculated	974	mg/L				1 A1030 E	12/31/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.02					1 A1030 E	12/31/10 00:00/lkl

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Collection Date: 11/15/10

Lab ID: R10110179-002

Date Received: 11/15/10

Client Sample ID: DB-09-21-02

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
MAJOR IONS							
Alkalinity, Total as CaCO3	194	mg/L		5		1	A2320 B 11/19/10 16:24/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B 11/19/10 16:24/hv
Bicarbonate as HCO3	236	mg/L		5		1	A2320 B 11/19/10 16:24/hv
Calcium	163	mg/L		0.5		2	E200.7 11/30/10 17:50/eli-c
Chloride	10	mg/L		1		1	E300.0 11/16/10 23:30/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0 11/16/10 23:30/jmh
Magnesium	45.2	mg/L		0.5		2	E200.7 11/30/10 17:50/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G 11/18/10 15:47/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0 11/16/10 23:30/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0 11/16/10 23:30/jmh
Potassium	12.0	mg/L		0.5		2	E200.7 11/30/10 17:50/eli-c
Sodium	125	mg/L	D	0.6		2	E200.7 11/30/10 17:50/eli-c
Sulfate	689	mg/L	D	10		10	E300.0 11/16/10 23:12/jmh
Silica	8.3	mg/L		0.2		1	E200.8 11/30/10 03:37/eli-c
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1470	umhos/cm		5.0		1	A2510 B 11/22/10 14:58/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B 11/22/10 18:00/jmh
pH	7.35	s.u.		0.01		1	A4500-H B 11/19/10 14:14/tb
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10		1	Calculation 12/21/10 17:26/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C 11/22/10 11:21/jmh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		1	E200.8 11/30/10 03:37/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8 11/30/10 03:37/eli-c
Barium	ND	mg/L		0.1		1	E200.8 11/30/10 03:37/eli-c
Boron	ND	mg/L		0.1		1	E200.8 11/30/10 03:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8 11/30/10 03:37/eli-c
Chromium	ND	mg/L		0.05		1	E200.8 11/30/10 03:37/eli-c
Copper	ND	mg/L		0.01		1	E200.8 11/30/10 03:37/eli-c
Iron	ND	mg/L		0.03		1	E200.8 11/30/10 03:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8 11/30/10 03:37/eli-c
Manganese	0.57	mg/L		0.01		1	E200.8 11/30/10 03:37/eli-c
Mercury	ND	mg/L		0.001		1	E200.8 11/30/10 03:37/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8 11/30/10 03:37/eli-c
Nickel	ND	mg/L		0.05		1	E200.8 11/30/10 03:37/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B 11/22/10 13:17/eli-c
Silver	ND	mg/L		0.005		1	E200.8 11/30/10 03:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8 11/30/10 03:37/eli-c

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Collection Date: 11/15/10

Lab ID: RI0110179-002

Date Received: 11/15/10

Client Sample ID: DB-09-21-02

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0082	mg/L		0.0003		1	E200.8	11/30/10 03:37/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/30/10 03:37/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/30/10 03:37/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 17:28/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/22/10 11:48/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/22/10 13:55/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	24.5	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Alpha precision (±)	6.0	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Alpha MDC	7.7	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta	21.1	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta precision (±)	3.9	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta MDC	6.0	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Lead 210	-0.08	pCi/L	U			1	E909.0	02/10/11 14:52/eli-cs
Lead 210 precision (±)	0.8	pCi/L				1	E909.0	02/10/11 14:52/eli-cs
Lead 210 MDC	1.4	pCi/L				1	E909.0	02/10/11 14:52/eli-cs
Polonium 210	-0.011	pCi/L	U			1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 MDC	0.53	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 precision (±)	0.20	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Radium 226	2.4	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 MDC	0.06	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Thorium 230	0.03	pCi/L	U			1	E907.0	12/06/10 09:46/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Thorium 230 precision (±)	0.06	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Gross Gamma	490	pCi/L				1	E901.1	11/18/10 15:20/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	11/18/10 15:20/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	2.5	pCi/L	U			1	E909.0M	12/30/10 07:50/eli-cs
Lead 210 precision (±)	2.0	pCi/L				1	E909.0M	12/30/10 07:50/eli-cs
Lead 210 MDC	3.3	pCi/L				1	E909.0M	12/30/10 07:50/eli-cs
Polonium 210	-0.032	pCi/L	U			1	E912.0	12/01/10 09:34/eli-ca
Polonium 210 precision (±)	0.25	pCi/L				1	E912.0	12/01/10 09:34/eli-ca

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Collection Date: 11/15/10

Lab ID: R10110179-002

Date Received: 11/15/10

Client Sample ID: DB-09-21-02

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Polonium 210 MDC	0.66	pCi/L				1 E912.0	12/01/10 09:34/eli-ca
Radium 226	0.1	pCi/L	U			1 E903.0	12/06/10 16:46/eli-c
Radium 226 precision (±)	0.08	pCi/L				1 E903.0	12/06/10 16:46/eli-c
Radium 226 MDC	0.1	pCi/L				1 E903.0	12/06/10 16:46/eli-c
Thorium 230	-0.2	pCi/L	U			1 E907.0	12/02/10 16:26/eli-c
Thorium 230 MDC	0.2	pCi/L				1 E907.0	12/02/10 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E907.0	12/02/10 16:26/eli-c
RADIONUCLIDES - TOTAL							
Radon 222	683	pCi/L		100		1 D5072-92	11/18/10 15:53/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	11/30/10 14:50/eli-c
Arsenic	0.002	mg/L		0.001		1 E200.8	11/30/10 14:50/eli-c
Barium	ND	mg/L		0.1		1 E200.8	11/30/10 14:50/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	11/30/10 14:50/eli-c
Boron	ND	mg/L		0.1		1 E200.8	11/30/10 14:50/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	11/30/10 14:50/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	11/30/10 14:50/eli-c
Copper	ND	mg/L		0.01		1 E200.8	11/30/10 14:50/eli-c
Iron	0.04	mg/L		0.03		1 E200.8	11/30/10 14:50/eli-c
Lead	ND	mg/L		0.001		1 E200.8	11/30/10 14:50/eli-c
Manganese	0.59	mg/L		0.01		1 E200.8	11/30/10 14:50/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	11/18/10 15:12/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	11/30/10 14:50/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	11/30/10 14:50/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	11/30/10 14:50/eli-c
Silver	ND	mg/L		0.005		1 E200.8	11/30/10 14:50/eli-c
Strontium	2.3	mg/L		0.1		1 E200.8	11/30/10 14:50/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	11/30/10 14:50/eli-c
Uranium	0.0098	mg/L		0.0003		1 E200.8	11/30/10 14:50/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	11/30/10 14:50/eli-c
DATA QUALITY							
A/C Balance (± 5)	-2.58	%				1 A1030 E	12/31/10 00:00/lkl
Anions	18.6	meq/L				1 A1030 E	12/31/10 00:00/lkl
Cations	17.6	meq/L				1 A1030 E	12/31/10 00:00/lkl
Solids, Total Dissolved Calculated	1180	mg/L				1 A1030 E	12/31/10 00:00/lkl
TDS Balance (0.80 - 1.20)	1.01					1 A1030 E	12/31/10 00:00/lkl

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Collection Date: 11/15/10

Lab ID: R10110179-003

Date Received: 11/15/10

Client Sample ID: DB-09-21-02 Dup

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO ₃	192	mg/L		5		1	A2320 B	11/19/10 16:29/hv
Carbonate as CO ₃	ND	mg/L		5		1	A2320 B	11/19/10 16:29/hv
Bicarbonate as HCO ₃	234	mg/L		5		1	A2320 B	11/19/10 16:29/hv
Calcium	163	mg/L		0.5		2	E200.7	11/30/10 17:54/eli-c
Chloride	10	mg/L		1		1	E300.0	11/17/10 00:05/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	11/17/10 00:05/jmh
Magnesium	46.4	mg/L		0.5		2	E200.7	11/30/10 17:54/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH ₃ G	11/18/10 15:48/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/17/10 00:05/jmh
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	11/17/10 00:05/jmh
Potassium	12.0	mg/L		0.5		2	E200.7	11/30/10 17:54/eli-c
Sodium	123	mg/L	D	0.6		2	E200.7	11/30/10 17:54/eli-c
Sulfate	691	mg/L	D	10		10	E300.0	11/16/10 23:48/jmh
Silica	8.5	mg/L		0.2		1	E200.8	11/30/10 04:12/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1470	umhos/cm		5.0		1	A2510 B	11/22/10 15:00/tb
Oxidation-Reduction Potential	220	mV				1	A2580 B	11/22/10 18:00/jmh
pH	7.35	s.u.		0.01		1	A4500-H B	11/19/10 14:15/tb
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10		1	Calculation	12/21/10 17:26/ADM
Solids, Total Dissolved TDS @ 180 C	1100	mg/L	D	10		1	A2540 C	11/22/10 11:22/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	11/30/10 04:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/30/10 04:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/30/10 04:12/eli-c
Boron	ND	mg/L		0.1		2	E200.7	11/30/10 17:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/30/10 04:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/30/10 04:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/30/10 04:12/eli-c
Iron	ND	mg/L		0.03		1	E200.8	11/30/10 04:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/30/10 04:12/eli-c
Manganese	0.58	mg/L		0.01		1	E200.8	11/30/10 04:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/30/10 04:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/30/10 04:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/30/10 04:12/eli-c
Selenium	ND	mg/L		0.001		1	A3114 B	11/22/10 13:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/30/10 04:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/30/10 04:12/eli-c

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Collection Date: 11/15/10

Lab ID: R10110179-003

Date Received: 11/15/10

Client Sample ID: DB-09-21-02 Dup

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0083	mg/L		0.0003		1	E200.8	11/30/10 04:12/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/30/10 04:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/30/10 04:12/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	11/30/10 17:32/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/22/10 11:50/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/22/10 13:55/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	23.3	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Alpha precision (±)	5.9	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Alpha MDC	7.7	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta	26.0	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta precision (±)	4.0	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Gross Beta MDC	6.0	pCi/L				1	E900.0	12/20/10 22:38/eli-ca
Lead 210	0.5	pCi/L	U			1	E909.0M	12/16/10 04:16/eli-cs
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	12/16/10 04:16/eli-cs
Lead 210 MDC	1.7	pCi/L				1	E909.0M	12/16/10 04:16/eli-cs
Polonium 210	-0.024	pCi/L	U			1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 MDC	0.60	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Polonium 210 precision (±)	0.23	pCi/L				1	E912.0	11/29/10 09:17/eli-ca
Radium 226	2.3	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Radium 226 MDC	0.06	pCi/L				1	E903.0	11/29/10 17:41/eli-c
Thorium 230	0.004	pCi/L	U			1	E907.0	12/06/10 09:46/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	12/06/10 09:46/eli-c
Gross Gamma	550	pCi/L				1	E901.1	11/18/10 15:20/eli-c
Gross Gamma precision (±)	160	pCi/L				1	E901.1	11/18/10 15:20/eli-c
- See Case Narrative regarding Gross Gamma analysis.								
RADIONUCLIDES - SUSPENDED								
Lead 210	1.4	pCi/L	U			1	E909.0M	12/30/10 10:01/eli-cs
Lead 210 precision (±)	2.0	pCi/L				1	E909.0M	12/30/10 10:01/eli-cs
Lead 210 MDC	3.3	pCi/L				1	E909.0M	12/30/10 10:01/eli-cs
Polonium 210	0.070	pCi/L	U			1	E912.0	12/01/10 09:34/eli-ca
Polonium 210 precision (±)	0.34	pCi/L				1	E912.0	12/01/10 09:34/eli-ca

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Collection Date: 11/15/10

Lab ID: R10110179-003

Date Received: 11/15/10

Client Sample ID: DB-09-21-02 Dup

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.70	pCi/L				1	E912.0	12/01/10 09:34/eli-ca
Radium 226	0.1	pCi/L	U			1	E903.0	12/06/10 16:46/eli-c
Radium 226 precision (±)	0.09	pCi/L				1	E903.0	12/06/10 16:46/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	12/06/10 16:46/eli-c
Thorium 230	-0.1	pCi/L	U			1	E907.0	12/02/10 16:26/eli-c
Thorium 230 MDC	0.2	pCi/L				1	E907.0	12/02/10 16:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	12/02/10 16:26/eli-c
RADIONUCLIDES - TOTAL								
Radon 222	666	pCi/L		100		1	D5072-92	11/18/10 15:53/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	11/30/10 14:57/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	11/30/10 14:57/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/30/10 14:57/eli-c
Beryllium	ND	mg/L		0.001		1	E200.8	11/30/10 14:57/eli-c
Boron	ND	mg/L		0.1		1	E200.8	11/30/10 14:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/30/10 14:57/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/30/10 14:57/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/30/10 14:57/eli-c
Iron	0.09	mg/L		0.03		1	E200.8	11/30/10 14:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/30/10 14:57/eli-c
Manganese	0.57	mg/L		0.01		1	E200.8	11/30/10 14:57/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	11/18/10 15:13/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	11/30/10 14:57/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/30/10 14:57/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	11/30/10 14:57/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/30/10 14:57/eli-c
Strontium	2.2	mg/L		0.1		1	E200.8	11/30/10 14:57/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	11/30/10 14:57/eli-c
Uranium	0.0097	mg/L		0.0003		1	E200.8	11/30/10 14:57/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/30/10 14:57/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.35	%				1	A1030 E	12/31/10 00:00/lkl
Anions	18.5	meq/L				1	A1030 E	12/31/10 00:00/lkl
Cations	17.7	meq/L				1	A1030 E	12/31/10 00:00/lkl
Solids, Total Dissolved Calculated	1190	mg/L				1	A1030 E	12/31/10 00:00/lkl
TDS Balance (0.80 - 1.20)	0.950					1	A1030 E	12/31/10 00:00/lkl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 101119A-ALK-SEL-W								
Sample ID: LCS1_101119A	Laboratory Control Sample					Run: PH_COND1-R_101119A		11/19/10 15:29		
Alkalinity, Total as CaCO3	964	mg/L	5.0	96	90	110				
Sample ID: MBLK1_101119A	Method Blank					Run: PH_COND1-R_101119A		11/19/10 15:35		
Alkalinity, Total as CaCO3	ND	mg/L	7							
Sample ID: R10110177-002AMS	Sample Matrix Spike					Run: PH_COND1-R_101119A		11/19/10 15:47		
Alkalinity, Total as CaCO3	310	mg/L	5.0	98	80	120				
Sample ID: R10110177-002AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_101119A		11/19/10 15:53		
Alkalinity, Total as CaCO3	312	mg/L	5.0	99	80	120	0.6	10		
Sample ID: R10110212-004AMS	Sample Matrix Spike					Run: PH_COND1-R_101119A		11/19/10 17:01		
Alkalinity, Total as CaCO3	294	mg/L	5.0	96	80	120				
Sample ID: R10110212-004AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_101119A		11/19/10 17:04		
Alkalinity, Total as CaCO3	296	mg/L	5.0	98	80	120	0.7	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Batch: 101122_1_COND-PROBE-W		
Sample ID: LCS1-1_101122		Laboratory Control Sample				Run: PH_COND2-R_101122A			11/22/10 14:35	
Conductivity @ 25 C		152	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_101122		Laboratory Control Sample				Run: PH_COND2-R_101122A			11/22/10 14:37	
Conductivity @ 25 C		4970	umhos/cm	5.0	99	90	110			
Sample ID: LCS_COND-1_101122		Laboratory Control Sample				Run: PH_COND2-R_101122A			11/22/10 14:41	
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_101122		Method Blank				Run: PH_COND2-R_101122A			11/22/10 14:43	
Conductivity @ 25 C		ND	umhos/cm	5						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 101122A-SLDS-TDS-W		
Sample ID: LCS1_101122A		Laboratory Control Sample					Run: BAL-4-R_101122A			11/22/10 11:15
Solids, Total Dissolved TDS @ 180 C		220	mg/L	10	103	90	110			
Sample ID: MBLK1_101122A		Method Blank					Run: BAL-4-R_101122A			11/22/10 11:16
Solids, Total Dissolved TDS @ 180 C		10	mg/L	3						
Sample ID: R10110212-001AMS		Sample Matrix Spike					Run: BAL-4-R_101122A			11/22/10 11:23
Solids, Total Dissolved TDS @ 180 C		1500	mg/L	10	102	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 101122-ORP-ISE-W		
Sample ID: LCS		Laboratory Control Sample			Run: PH_COND1-R_101122B			11/22/10 18:00		
Oxidation-Reduction Potential	480	mV		101		95	105			
Sample ID: R10110179-003F		Sample Duplicate			Run: PH_COND1-R_101122B			11/22/10 18:00		
Oxidation-Reduction Potential	220	mV						0.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: C_28290
Sample ID: MB-28290		Method Blank					Run: SUB-C140166			11/22/10 11:34
Selenium-IV		0.0005	mg/L	0.0003						
Sample ID: LCS-28290		Laboratory Control Sample					Run: SUB-C140166			11/22/10 11:39
Selenium-IV		0.047	mg/L	0.0010	94	90	110			
Sample ID: R10110179-001E		Sample Matrix Spike					Run: SUB-C140166			11/22/10 11:44
Selenium-IV		0.048	mg/L	0.0010	96	85	115			
Sample ID: R10110179-001E		Sample Matrix Spike Duplicate					Run: SUB-C140166			11/22/10 11:46
Selenium-IV		0.047	mg/L	0.0010	93	85	115	3.2	10	
Method: A3114 B										Batch: C_28290
Sample ID: MB-28290		Method Blank					Run: SUB-C140171			11/22/10 13:05
Selenium		ND	mg/L	0.0002						
Sample ID: LCS-28290		Laboratory Control Sample					Run: SUB-C140171			11/22/10 13:08
Selenium		0.046	mg/L	0.0010	92	90	110			
Sample ID: R10110179-001E		Sample Matrix Spike					Run: SUB-C140171			11/22/10 13:12
Selenium		0.052	mg/L	0.0010	103	85	115			
Sample ID: R10110179-001E		Sample Matrix Spike Duplicate					Run: SUB-C140171			11/22/10 13:15
Selenium		0.053	mg/L	0.0010	106	85	115	2.4	15	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Report Date: 01/05/11

Client: Powertech USA Inc

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 101119_2_PH-W		
Sample ID: LCS_pH-1_101119	Laboratory Control Sample					Run: PH_COND2-R_101119A		11/19/10 13:57		
pH		7.40	s.u.	0.010	100	98.55	101.45			
Sample ID: R10110179-001ADUP	Sample Duplicate					Run: PH_COND2-R_101119A		11/19/10 14:12		
pH		7.64	s.u.	0.010				0.1	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2010-11-18_2_NH3_01		
Sample ID: MBLK-2		Method Blank					Run: TECHAA2-R_101118A			11/18/10 13:36
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LFB-3		Laboratory Fortified Blank					Run: TECHAA2-R_101118A			11/18/10 13:37
Nitrogen, Ammonia as N		0.23	mg/L	0.10	91	90	110			
Sample ID: R10110179-001BMS		Sample Matrix Spike					Run: TECHAA2-R_101118A			11/18/10 15:45
Nitrogen, Ammonia as N		0.40	mg/L	0.10	110	80	120			
Sample ID: R10110179-001BMSD		Sample Matrix Spike Duplicate					Run: TECHAA2-R_101118A			11/18/10 15:46
Nitrogen, Ammonia as N		0.40	mg/L	0.10	112	80	120	1.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92 Batch: C_R140114										
Sample ID: R10110179-003G	Sample Duplicate						Run: SUB-C140114		11/18/10 15:53	
Radon 222	610	pCi/L	100					8.7	30	
Sample ID: MB-R140114	Method Blank						Run: SUB-C140114		11/18/10 15:53	
Radon 222	30	pCi/L								U
Sample ID: LCS-R140114	Laboratory Control Sample						Run: SUB-C140114		11/18/10 15:53	
Radon 222	301	pCi/L	100	89	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: C_R140421										
Sample ID: MB-101130A	5	Method Blank								
							Run: SUB-C140421			11/30/10 15:57
Boron		ND	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Sodium		ND	mg/L	0.3						
Sample ID: LFB-101130A	5	Laboratory Fortified Blank								
							Run: SUB-C140421			11/30/10 16:01
Boron		0.96	mg/L	0.10	96	85	115			
Calcium		47	mg/L	0.50	94	85	115			
Magnesium		47	mg/L	0.50	94	85	115			
Potassium		43	mg/L	0.50	87	85	115			
Sodium		47	mg/L	0.50	94	85	115			
Sample ID: C10110416-001BMS2	5	Sample Matrix Spike								
							Run: SUB-C140421			11/30/10 16:57
Boron		4.68	mg/L	0.10	99	70	130			
Calcium		130	mg/L	1.0	95	70	130			
Magnesium		95.7	mg/L	1.0	93	70	130			
Potassium		109	mg/L	1.0	82	70	130			
Sodium		647	mg/L	1.0		70	130			A
Sample ID: C10110416-001BMSD2	5	Sample Matrix Spike Duplicate								
							Run: SUB-C140421			11/30/10 17:02
Boron		4.72	mg/L	0.10	101	70	130	0.8	20	
Calcium		131	mg/L	1.0	96	70	130	0.9	20	
Magnesium		97.0	mg/L	1.0	94	70	130	1.4	20	
Potassium		109	mg/L	1.0	83	70	130	0.6	20	
Sodium		656	mg/L	1.0		70	130	1.4	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.
MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8											
Sample ID: C10110505-007BMS4		19 Post Digestion Spike			Run: SUB-C140353				Batch: C_R140353A		
									11/30/10 03:10		
Aluminum		0.0715	mg/L	0.0010	96	70	130				
Arsenic		0.0546	mg/L	0.0010	108	70	130				
Barium		0.0625	mg/L	0.0010	103	70	130				
Boron		0.198	mg/L	0.10	78	70	130				
Cadmium		0.0495	mg/L	0.010	97	70	130				
Chromium		0.0519	mg/L	0.050	104	70	130				
Copper		0.0530	mg/L	0.010	99	70	130				
Iron		7.25	mg/L	0.030		70	130			A	
Lead		0.0537	mg/L	0.050	107	70	130				
Manganese		4.99	mg/L	0.010		70	130			A	
Mercury		0.00417	mg/L	0.0010	83	70	130				
Molybdenum		0.0597	mg/L	0.0010	102	70	130				
Nickel		0.0966	mg/L	0.050	99	70	130				
Silicon		5.68	mg/L	0.10		70	130			A	
Silver		0.00186	mg/L	0.0010	9	70	130			S	
Thorium 232		0.0561	mg/L	0.0010	111	70	130				
Uranium		0.0571	mg/L	0.00030	110	70	130				
Vanadium		0.0535	mg/L	0.0010	106	70	130				
Zinc		0.126	mg/L	0.010	94	70	130				
Sample ID: C10110505-007BMSD4		19 Post Digestion Spike Duplicate			Run: SUB-C140353				11/30/10 03:17		
Aluminum		0.0708	mg/L	0.0010	94	70	130	1.0	20		
Arsenic		0.0552	mg/L	0.0010	109	70	130	1.1	20		
Barium		0.0643	mg/L	0.0010	107	70	130	2.8	20		
Boron		0.189	mg/L	0.10	60	70	130	4.6	20	S	
Cadmium		0.0496	mg/L	0.010	98	70	130	0.2	20		
Chromium		0.0526	mg/L	0.050	105	70	130	1.2	20		
Copper		0.0537	mg/L	0.010	100	70	130	1.2	20		
Iron		7.24	mg/L	0.030		70	130	0.0	20	A	
Lead		0.0540	mg/L	0.050	108	70	130	0.6	20		
Manganese		5.00	mg/L	0.010		70	130	0.2	20	A	
Mercury		0.00451	mg/L	0.0010	90	70	130	7.7	20		
Molybdenum		0.0610	mg/L	0.0010	104	70	130	2.1	20		
Nickel		0.0979	mg/L	0.050	101	70	130	1.3	20		
Silicon		5.69	mg/L	0.10		70	130	0.1	20	A	
Silver		0.00410	mg/L	0.0010	20	70	130	75	20	SR	
Thorium 232		0.0569	mg/L	0.0010	113	70	130	1.4	20		
Uranium		0.0574	mg/L	0.00030	111	70	130	0.6	20		
Vanadium		0.0539	mg/L	0.0010	107	70	130	0.9	20		
Zinc		0.123	mg/L	0.010	89	70	130	2.0	20		
Sample ID: LRB		19 Method Blank			Run: SUB-C140353				11/29/10 19:01		
Silicon		0.04	mg/L	0.0005							
Aluminum		0.004	mg/L	8E-05							
Arsenic		ND	mg/L	4E-05							

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8										Batch: C_R140353A	
Sample ID: LRB	19	Method Blank		Run: SUB-C140353				11/29/10 19:01			
Barium		ND	mg/L	3E-05							
Boron		0.003	mg/L								
Cadmium		ND	mg/L	7E-05							
Chromium		ND	mg/L	5E-05							
Copper		ND	mg/L	6E-05							
Iron		0.0002	mg/L	0.0001							
Lead		ND	mg/L	2E-05							
Manganese		ND	mg/L	2E-05							
Mercury		5E-05	mg/L	2E-05							
Molybdenum		ND	mg/L	8E-05							
Nickel		ND	mg/L	5E-05							
Silver		ND	mg/L	8E-05							
Thorium 232		6E-05	mg/L	3E-05							
Uranium		ND	mg/L	8E-06							
Vanadium		ND	mg/L	1E-05							
Zinc		0.005	mg/L	0.0001							
Sample ID: LFB	20	Laboratory Fortified Blank		Run: SUB-C140353				11/29/10 19:08			
Silicon		0.573	mg/L	0.0050	102	85	115				
Aluminum		0.0524	mg/L	0.0010	97	85	115				
Arsenic		0.0519	mg/L	0.0010	104	85	115				
Barium		0.0526	mg/L	0.0010	105	85	115				
Boron		0.0518	mg/L	0.0010	98	85	115				
Cadmium		0.0524	mg/L	0.0010	105	85	115				
Chromium		0.0517	mg/L	0.0010	103	85	115				
Copper		0.0523	mg/L	0.0010	105	85	115				
Iron		1.30	mg/L	0.012	104	85	115				
Lead		0.0526	mg/L	0.0010	105	85	115				
Manganese		0.0525	mg/L	0.0010	105	85	115				
Mercury		0.00525	mg/L	0.0010	104	85	115				
Molybdenum		0.0502	mg/L	0.0010	100	85	115				
Nickel		0.0508	mg/L	0.0010	102	85	115				
Silver		0.0206	mg/L	0.0010	103	85	115				
Thorium 232		0.0516	mg/L	0.0010	103	85	115				
Uranium		0.0520	mg/L	0.00030	104	85	115				
Vanadium		0.0510	mg/L	0.0010	102	85	115				
Zinc		0.0543	mg/L	0.0010	98	85	115				
Silica		1.23	mg/L	0.011	115	85	115				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: C_28308										
Sample ID: MB-28308	19	Method Blank								
							Run: SUB-C140415			11/30/10 13:28
Antimony		0.0010	mg/L		0.0003					
Arsenic		0.0004	mg/L		5E-05					
Barium		ND	mg/L		0.0002					
Beryllium		ND	mg/L		3E-05					
Boron		ND	mg/L		0.003					
Cadmium		8E-05	mg/L		4E-05					
Chromium		0.0003	mg/L		3E-05					
Copper		0.002	mg/L		5E-05					
Iron		ND	mg/L		0.001					
Lead		8E-05	mg/L		5E-05					
Manganese		0.0002	mg/L		2E-05					
Molybdenum		0.0002	mg/L		0.00010					
Nickel		ND	mg/L		4E-05					
Selenium		0.0001	mg/L		3E-05					
Silver		0.0003	mg/L		4E-05					
Strontium		ND	mg/L		6E-05					
Thallium		0.0007	mg/L		0.0001					
Uranium		ND	mg/L		4E-05					
Zinc		0.001	mg/L		0.001					
Sample ID: LCS3-28308	19	Laboratory Control Sample								
							Run: SUB-C140415			11/30/10 13:35
Antimony		0.602	mg/L		0.050	120	85			S
Arsenic		0.497	mg/L		0.0010	99	85			
Barium		0.526	mg/L		0.10	105	85			
Beryllium		0.258	mg/L		0.010	103	85			
Boron		0.520	mg/L		0.10	104	85			
Cadmium		0.275	mg/L		0.010	110	85			
Chromium		0.483	mg/L		0.050	97	85			
Copper		0.497	mg/L		0.010	99	85			
Iron		2.51	mg/L		0.030	100	85			
Lead		0.518	mg/L		0.050	104	85			
Manganese		2.48	mg/L		0.010	99	85			
Molybdenum		0.545	mg/L		0.10	109	85			
Nickel		0.489	mg/L		0.050	98	85			
Selenium		0.530	mg/L		0.0010	106	85			
Silver		0.0536	mg/L		0.010	107	85			
Strontium		0.492	mg/L		0.10	98	85			
Thallium		0.504	mg/L		0.10	101	85			
Uranium		0.537	mg/L		0.00030	107	85			
Zinc		0.521	mg/L		0.010	104	85			
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.										
Sample ID: C10110772-010BMS3	19	Sample Matrix Spike								
							Run: SUB-C140415			11/30/10 14:23
Antimony		0.560	mg/L		0.050	112	70			130
Arsenic		0.536	mg/L		0.0010	90	70			130

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_28308
Sample ID: C10110772-010BMS3		19 Sample Matrix Spike			Run: SUB-C140415			11/30/10 14:23		
Barium		0.511	mg/L	0.10	98	70	130			
Beryllium		0.204	mg/L	0.010	82	70	130			
Boron		0.951	mg/L	0.10	81	70	130			
Cadmium		0.241	mg/L	0.010	95	70	130			
Chromium		0.446	mg/L	0.050	89	70	130			
Copper		0.437	mg/L	0.010	86	70	130			
Iron		2.32	mg/L	0.030	92	70	130			
Lead		0.484	mg/L	0.050	97	70	130			
Manganese		2.45	mg/L	0.010	89	70	130			
Molybdenum		3.39	mg/L	0.10		70	130			A
Nickel		0.431	mg/L	0.050	86	70	130			
Selenium		0.447	mg/L	0.0010	89	70	130			
Silver		0.0455	mg/L	0.010	90	70	130			
Strontium		2.21	mg/L	0.10	73	70	130			
Thallium		0.468	mg/L	0.10	93	70	130			
Uranium		2.56	mg/L	0.00030		70	130			A
Zinc		0.453	mg/L	0.010	88	70	130			
Sample ID: C10110772-010BMSD3		19 Sample Matrix Spike Duplicate			Run: SUB-C140415			11/30/10 14:30		
Antimony		0.596	mg/L	0.050	119	70	130	6.2	20	
Arsenic		0.544	mg/L	0.0010	92	70	130	1.5	20	
Barium		0.536	mg/L	0.10	103	70	130	4.8	20	
Beryllium		0.217	mg/L	0.010	87	70	130	5.8	20	
Boron		0.987	mg/L	0.10	88	70	130	3.7	20	
Cadmium		0.253	mg/L	0.010	100	70	130	4.9	20	
Chromium		0.450	mg/L	0.050	90	70	130	1.0	20	
Copper		0.439	mg/L	0.010	87	70	130	0.4	20	
Iron		2.46	mg/L	0.030	97	70	130	5.6	20	
Lead		0.508	mg/L	0.050	102	70	130	4.8	20	
Manganese		2.54	mg/L	0.010	93	70	130	3.4	20	
Molybdenum		3.47	mg/L	0.10		70	130	2.4	20	A
Nickel		0.432	mg/L	0.050	86	70	130	0.1	20	
Selenium		0.478	mg/L	0.0010	95	70	130	6.7	20	
Silver		0.0481	mg/L	0.010	95	70	130	5.7	20	
Strontium		2.26	mg/L	0.10	84	70	130	2.4	20	
Thallium		0.491	mg/L	0.10	98	70	130	4.8	20	
Uranium		2.67	mg/L	0.00030		70	130	4.0	20	A
Zinc		0.459	mg/L	0.010	89	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: SUB-C140426		
Sample ID: ICV		Initial Calibration Verification Standard								
Uranium		0.0514	mg/L	0.00030	103	90	110			11/30/10 11:59
Method: E200.8								Batch: C_28303		
Sample ID: MB-28303		Method Blank								
Uranium		0.0002	mg/L	6E-05						Run: SUB-C140426 11/30/10 16:55
Sample ID: LCS2-28303		Laboratory Control Sample								
Uranium		0.102	mg/L	0.00030	102	85	115			Run: SUB-C140426 11/30/10 16:59
Sample ID: R10110179-003I		Post Digestion Spike								
Uranium		0.0130	mg/L	0.00030	102	70	130			Run: SUB-C140426 11/30/10 17:37
Sample ID: R10110179-003I		Post Digestion Spike Duplicate								
Uranium		0.0132	mg/L	0.00030	103	70	130	1.4	20	Run: SUB-C140426 11/30/10 17:41

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1										
Analytical Run: SUB-B157434										
Sample ID: QCS	Initial Calibration Verification Standard									
Mercury		0.0018	mg/L	0.0010	91	90	110			11/18/10 14:41
Method: E245.1										
Batch: B_50582										
Sample ID: MB-50582	Method Blank									
Mercury		6E-05	mg/L	1E-05						Run: SUB-B157434 11/18/10 14:49
Sample ID: LCS-50582	Laboratory Control Sample									
Mercury		0.0019	mg/L	0.0010	91	85	115			Run: SUB-B157434 11/18/10 14:52
Sample ID: R10110177-006D	Sample Matrix Spike									
Mercury		0.0018	mg/L	0.0010	86	70	130			Run: SUB-B157434 11/18/10 15:18
Sample ID: R10110177-006D	Sample Matrix Spike Duplicate									
Mercury		0.0018	mg/L	0.0010	86	70	130	0.0	30	Run: SUB-B157434 11/18/10 15:20

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 02/14/11
Report Date: 01/05/11
Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										
Batch: R49128										
Sample ID: LFB111610-14	5	Laboratory Fortified Blank					Run: DIONEX_101116A			11/16/10 21:44
Chloride		38.1	mg/L	1.00	95	90	110			
Fluoride		3.87	mg/L	0.10	97	90	110			
Nitrogen, Nitrate as N		3.93	mg/L	0.10	98	90	110			
Nitrogen, Nitrite as N		4.00	mg/L	0.10	100	90	110			
Sulfate		37.4	mg/L	1.0	93	90	110			
Sample ID: R10110179-001AMS	5	Sample Matrix Spike					Run: DIONEX_101116A			11/16/10 22:19
Chloride		389	mg/L	10.0	88	90	110			S
Fluoride		39.0	mg/L	1.0	91	90	110			
Nitrogen, Nitrate as N		39.6	mg/L	1.0	99	90	110			
Nitrogen, Nitrite as N		40.2	mg/L	1.0	101	90	110			
Sulfate		909	mg/L	10	90	90	110			
Sample ID: R10110179-001AMSD	5	Sample Matrix Spike Duplicate					Run: DIONEX_101116A			11/16/10 22:37
Chloride		390	mg/L	10.0	89	90	110	0.3	10	S
Fluoride		39.0	mg/L	1.0	91	90	110	0.1	10	
Nitrogen, Nitrate as N		39.5	mg/L	1.0	99	90	110	0.2	10	
Nitrogen, Nitrite as N		40.3	mg/L	1.0	101	90	110	0.0	10	
Sulfate		912	mg/L	10	91	90	110	0.4	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										
Batch: C_GrAB-1012										
Sample ID: MB-GrAB-1012	6	Method Blank					Run: SUB-C140538		12/02/10 21:27	
Gross Alpha		-2	pCi/L							U
Gross Alpha precision (±)		0.7	pCi/L							
Gross Alpha MDC		0.9	pCi/L							
Gross Beta		-2	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-1012		Laboratory Control Sample					Run: SUB-C140538		12/02/10 21:27	
Gross Alpha		110	pCi/L	110		70	130			
Sample ID: Cs137-GrAB-1012		Laboratory Control Sample					Run: SUB-C140538		12/02/10 21:28	
Gross Beta		83	pCi/L	96		70	130			
Sample ID: R10110179-001H	6	Sample Duplicate					Run: SUB-C140538		12/02/10 21:28	
Gross Alpha		-5.3	pCi/L					260	189.6	UR
Gross Alpha precision (±)		3.2	pCi/L							
Gross Alpha MDC		6.0	pCi/L							
Gross Beta		4.1	pCi/L					89	92.1	U
Gross Beta precision (±)		3.3	pCi/L							
Gross Beta MDC		5.3	pCi/L							
- For Gross Alpha the Sample and the Duplicate are both below the MDC; the RPD is acceptable.										
Sample ID: C10110899-001FMS		Sample Matrix Spike					Run: SUB-C140538		12/03/10 09:38	
Gross Alpha		2930	pCi/L	344		70	130			S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.										
Sample ID: C10110899-001FMSD		Sample Matrix Spike Duplicate					Run: SUB-C140538		12/03/10 09:38	
Gross Alpha		2840	pCi/L	259		70	130	3.2	11.9	S
Sample ID: C10110899-001FMS		Sample Matrix Spike					Run: SUB-C140538		12/03/10 09:38	
Gross Beta		530	pCi/L	143		70	130			S
- Sample response is much larger than spike amount, therefore small variances in the sample adversely affected the recovery. The LCS and the RPD of the MS/MSD pair meets acceptance criteria; this batch is approved.										
Sample ID: C10110899-001FMSD		Sample Matrix Spike Duplicate					Run: SUB-C140538		12/03/10 09:38	
Gross Beta		515	pCi/L	126		70	130	2.9	12.2	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-1020		
Sample ID: MB-GrAB-1020	6	Method Blank					Run: SUB-C141090		12/18/10 02:02	
Gross Alpha		-0.2	pCi/L							U
Gross Alpha precision (±)		0.8	pCi/L							
Gross Alpha MDC		0.9	pCi/L							
Gross Beta		-0.5	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		2	pCi/L							
Sample ID: Th230-GrAB-1020		Laboratory Control Sample					Run: SUB-C141090		12/18/10 02:02	
Gross Alpha		100	pCi/L	98		70	130			
Sample ID: Cs137-GrAB-1020		Laboratory Control Sample					Run: SUB-C141090		12/18/10 02:02	
Gross Beta		86	pCi/L	97		70	130			
Sample ID: C10120299-001DMS		Sample Matrix Spike					Run: SUB-C141090		12/18/10 02:02	
Gross Alpha		110	pCi/L	108		70	130			
Sample ID: C10120299-001DMSD		Sample Matrix Spike Duplicate					Run: SUB-C141090		12/18/10 02:02	
Gross Alpha		110	pCi/L	108		70	130	0.0	17.4	
Sample ID: C10120299-001DMS		Sample Matrix Spike					Run: SUB-C141090		12/18/10 02:02	
Gross Beta		90	pCi/L	98		70	130			
Sample ID: C10120299-001DMSD		Sample Matrix Spike Duplicate					Run: SUB-C141090		12/18/10 02:02	
Gross Beta		94	pCi/L	103		70	130	4.9	15.9	
Sample ID: C10120455-001EDUP	6	Sample Duplicate					Run: SUB-C141090		12/20/10 22:38	
Gross Alpha		-6.32	pCi/L					9.1	91	U
Gross Alpha precision (±)		2.69	pCi/L							
Gross Alpha MDC		5.30	pCi/L							
Gross Beta		-0.648	pCi/L					140	880.2	U
Gross Beta precision (±)		2.02	pCi/L							
Gross Beta MDC		3.42	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Report Date: 01/05/11

Client: Powertech USA Inc

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										
Batch: C_R140453										
Sample ID: LCS-R140453	3	Laboratory Control Sample					Run: SUB-C140453			11/18/10 15:20
Americium 241		670	pCi/L	50	82	70	130			
Cesium 137		990	pCi/L	50	99	70	130			
Potassium 40		6500	pCi/L	50	98	70	130			
Sample ID: MB-R140453	23	Method Blank					Run: SUB-C140453			11/18/10 15:20
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		500	pCi/L							
Thorium 234 precision (±)		80	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		500	pCi/L							
Gross Gamma precision (±)		80	pCi/L							
- See Case Narrative regarding Gross Gamma analysis.										
Sample ID: R10110179-003H	23	Sample Duplicate					Run: SUB-C140453			11/18/10 15:20
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R140453
Sample ID: R10110179-003H	23	Sample Duplicate					Run: SUB-C140453			11/18/10 15:20
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		470	pCi/L	50				17	30	
Thorium 234 precision (±)		160	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		470	pCi/L					17	30	
Gross Gamma precision (±)		160	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

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Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: C_RA226-5019		
Sample ID: C10110690-007EMS		Sample Matrix Spike				Run: SUB-C140374			11/29/10 17:41	
Radium 226		15	pCi/L	86		70	130			
Sample ID: C10110690-007EMSD		Sample Matrix Spike Duplicate				Run: SUB-C140374			11/29/10 17:41	
Radium 226		15	pCi/L	87		70	130	1.7	20.4	
Sample ID: MB-RA226-5019	3	Method Blank				Run: SUB-C140374			11/29/10 21:30	
Radium 226		0.07	pCi/L							U
Radium 226 precision (±)		0.05	pCi/L							
Radium 226 MDC		0.07	pCi/L							
Sample ID: LCS-RA226-5019		Laboratory Control Sample				Run: SUB-C140374			11/29/10 21:30	
Radium 226		7.5	pCi/L	93		70	130			
Method: E903.0								Batch: C_28303		
Sample ID: R10110179-003I		Sample Matrix Spike				Run: SUB-C140646			12/06/10 16:46	
Radium 226		18	pCi/L	95		70	130			
Sample ID: R10110179-003I		Sample Matrix Spike Duplicate				Run: SUB-C140646			12/06/10 16:46	
Radium 226		21	pCi/L	108		70	130	13	19.9	
Sample ID: MB-28303	3	Method Blank				Run: SUB-C140646			12/06/10 16:46	
Radium 226		0.3	pCi/L							
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-28303		Laboratory Control Sample				Run: SUB-C140646			12/06/10 16:46	
Radium 226		11	pCi/L	70		70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0 Batch: T_PB-210-0071										
Sample ID: TAP WATERMSD Run: SUB-T38878										
Laboratory Fortified Blank Duplicate 02/11/11 04:01										
Lead 210		55	pCi/L	104		70	130	2.0		15.4
Sample ID: TAP WATERMS Run: SUB-T38878										
Laboratory Fortified Blank 02/11/11 01:50										
Lead 210		57	pCi/L	106		70	130			
Sample ID: TAP WATER Run: SUB-T38878										
3 Method Blank 02/10/11 23:38										
Lead 210		-0.78	pCi/L			0	0			U
Lead 210 precision (±)		0.79	pCi/L			0	0			
Lead 210 MDC		1.4	pCi/L			0	0			
Sample ID: LCS-PB-210-0071 Run: SUB-T38878										
Laboratory Control Sample 02/10/11 21:27										
Lead 210		58	pCi/L	106		70	130			
Sample ID: MB-PB-210-0071 Run: SUB-T38878										
3 Method Blank 02/10/11 17:04										
Lead 210		0.09	pCi/L							U
Lead 210 precision (±)		0.8	pCi/L							
Lead 210 MDC		1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 01/05/11

Project: Dewey Groundwater Sampling

Work Order: R10110179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0 Batch: C_PO210-0328										
Sample ID: C10110614-004DMS Run: SUB-C140360										
Polonium 210		Sample Matrix Spike								11/29/10 09:17
		27	pCi/L	76		70	130			
Sample ID: C10110614-004DMSD Run: SUB-C140360										
Polonium 210		Sample Matrix Spike Duplicate								11/29/10 09:17
		28	pCi/L	79		70	130	4.0	56.6	
Sample ID: MB-PO210-0328 Run: SUB-C140360										
Polonium 210	3	Method Blank								11/29/10 09:17
		0.3	pCi/L							U
		Polonium 210 MDC								
		0.7	pCi/L							
		Polonium 210 precision (±)								
		0.5	pCi/L							
Sample ID: LCS-PO210-0328 Run: SUB-C140360										
Polonium 210		Laboratory Control Sample								11/29/10 09:17
		13	pCi/L	77		70	130			
Method: E912.0 Batch: C_28303										
Sample ID: R10110179-001I Run: SUB-C140443										
Polonium 210		Sample Matrix Spike								12/01/10 09:34
		37	pCi/L	95		70	130			
Sample ID: R10110179-001I Run: SUB-C140443										
Polonium 210		Sample Matrix Spike Duplicate								12/01/10 09:34
		38	pCi/L	99		70	130	3.4	56.4	
Sample ID: LCS-28303 Run: SUB-C140443										
Polonium 210		Laboratory Control Sample								12/01/10 09:34
		70	pCi/L	93		70	130			
Sample ID: MB-28303 Run: SUB-C140443										
Polonium 210	3	Method Blank								12/01/10 09:34
		-0.1	pCi/L							U
		Polonium 210 precision (±)								
		1	pCi/L							
		Polonium 210 MDC								
		3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RETURN

PLEASE PRINT (Provide as much information as possible.)

Company Name: <i>Scott Enviro Power Prod</i>		Project Name, PWS, Permit, Etc: <i>Power Prod, Inc. Perry Branch</i>		Sample Origin:	EPA/State Compliance:
Report Mail Address: <i>Power Prod</i>		Contact Name: <i>Allen Scott</i>		State:	Yes <input type="checkbox"/> No <input type="checkbox"/>
Invoice Address: <i>Power Prod</i>		Phone/Fax:		Sampler: (Please Print)	
Special Report/Formats:		Invoice Contact & Phone:		Purchase Order:	Quote/Bottle Order:
<input type="checkbox"/> DW <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Shipped By: <i>MANO DIL</i> Cooler ID(s):	
Number of Containers Sample Type: A W S V B O DW Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water		ANALYSIS REQUESTED SEE ATTACHED Standard Turnaround (TAT) R U S H		Contact E/I prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 <i>DB-09-21-01</i> 11-15-10 2 <i>DB-09-21-02</i> 11-15-10 3 <i>DB-09-21-02 Dup</i> 11-15-10 4 5 6 7 8 9 10		MATRIX 1 <i>Water</i> 2 3 4 5 6 7 8 9 10		RECEIVED BY LABORATORY: Received by (print): <i>Andreas</i> Date/Time: <i>11/15/10 10:15:50</i> Signature: <i>[Signature]</i>	
Requested by (print): <i>Allen Scott</i> Date/Time: <i>11-15-10 3:19pm</i> Signature: <i>[Signature]</i>		Requested by (print): _____ Date/Time: _____ Signature: _____		Received by (print): _____ Date/Time: _____ Signature: _____	
Custody Record MUST be Signed Sample Disposal: _____ Return to Client: _____ Lab Disposal: _____		RECEIVED BY LABORATORY: Received by (print): <i>Andreas</i> Date/Time: <i>11/15/10 10:15:50</i> Signature: <i>[Signature]</i>		RECEIVED BY LABORATORY: Received by (print): _____ Date/Time: _____ Signature: _____	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This service as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

February 14, 2011

Powertech USA Inc
PO Box 812
Edgemont, SD 57735

Workorder No.: R10120179

Project Name: Dewey Groundwater Sampling

Energy Laboratories Inc. Rapid City SD received the following 2 samples for Powertech USA Inc on 12/15/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R10120179-001	DB-09-21-01	12/14/10 0:00	12/15/10	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia Oxidation Reduction Potential pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma, Dissolved Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Radon 222 Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Solids, Total Dissolved
R10120179-002	DB-09-21-02	12/14/10 0:00	12/15/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2821 Plant St., Rapid City, SD 57702. As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:

Linda K. Larson
Branch Manager

Digitally signed by
Linda Larson
Date: 2011.02.15 09:37:15 -07:00



CLIENT: Powertech USA Inc
Project: Dewey Groundwater Sampling
Sample Delivery Group: R10120179

Revised Date: 02/14/11

Report Date: 02/01/11

CASE NARRATIVE

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.

Comments imported for SUBBED Workorder: C10120584

RA226 ANALYSIS

The sample specific Minimum Detectable Concentration (MDC) as recommended by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

GROSS GAMMA ANALYSIS

The gamma spectrometry software has identified Thorium 234 as a potential component of this sample. The value generated by the software has been reported here. However, the Thorium 234 gamma ray peaks reside in the middle of excessive background contributions from Compton scatter, x-rays from thorium, and interfering gamma ray peaks from other naturally occurring radionuclides present in the metal can and sample. This means that the value for Thorium 234 likely has a positive bias. The only method to determine the actual concentration of Th-234 would be by radiochemical separation of thorium and gamma spectrometric analysis on the isolate thorium fraction.

End of comments imported for SUBBED Workorder: C10120584

Comments imported for SUBBED Workorder: C10120584

RA226 ANALYSIS

The sample specific Minimum Detectable Concentration (MDC) as recommended by USNRC Regulatory Guide 4.14 could not be achieved due to significant matrix interferences, restricting the volume of sample to be used in the analysis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

GROSS GAMMA ANALYSIS

The gamma spectrometry software has identified Thorium 234 as a potential component of this sample. The value generated by the software has been reported here. However, the Thorium 234 gamma ray peaks reside in the middle of excessive background contributions from Compton scatter, x-rays from thorium, and interfering gamma ray peaks from other naturally occurring radionuclides present in the metal can and sample. This means that the value for Thorium 234 likely has a positive bias. The only method to determine the actual concentration of Th-234 would be by radiochemical separation of thorium and gamma spectrometric analysis on the isolate thorium fraction.

End of comments imported for SUBBED Workorder: C10120584

Re-analysis done on SeVI. Initial results determined to be due to possible contamination in prep. Final results are in revised report.



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10120179-001
Client Sample ID: DB-09-21-01

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Collection Date: 12/14/10
Date Received: 12/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	12/20/10 15:08/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/20/10 15:08/hv
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	12/20/10 15:08/hv
Calcium	95.8	mg/L		0.5		2	E200.7	12/22/10 18:59/eli-c
Chloride	8	mg/L		1		1	E300.0	12/16/10 23:25/tb
Fluoride	0.4	mg/L		0.1		1	E300.0	12/16/10 23:25/tb
Magnesium	34.4	mg/L		0.5		2	E200.7	12/22/10 18:59/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	12/28/10 12:17/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/16/10 23:25/tb
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/16/10 23:25/tb
Potassium	11.7	mg/L		0.5		2	E200.7	12/22/10 18:59/eli-c
Sodium	163	mg/L	D	0.6		2	E200.7	12/22/10 18:59/eli-c
Sulfate	538	mg/L	D	10		10	E300.0	12/16/10 23:07/tb
Silica	10.4	mg/L		0.2		2	E200.7	01/17/11 12:46/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1350	umhos/cm		5.0		1	A2510 B	12/21/10 09:35/tb
Oxidation-Reduction Potential	190	mV				1	A2580 B	12/21/10 16:30/jmh
pH	7.59	s.u.		0.01		1	A4500-H B	12/15/10 14:07/hv
Sodium Adsorption Ratio (SAR)	3.6	unitless		0.10		1	Calculation	01/18/11 16:25/ADM
Solids, Total Dissolved TDS @ 180 C	990	mg/L	D	10		1	A2540 C	12/15/10 16:32/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	12/22/10 18:59/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/28/10 08:51/eli-c
Barium	ND	mg/L		0.1		2	E200.7	12/22/10 18:59/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/22/10 18:59/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	12/22/10 18:59/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	12/22/10 18:59/eli-c
Copper	ND	mg/L		0.01		2	E200.7	12/22/10 18:59/eli-c
Iron	0.03	mg/L		0.03		2	E200.7	12/22/10 18:59/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/28/10 08:51/eli-c
Manganese	0.05	mg/L		0.01		2	E200.7	12/22/10 18:59/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/28/10 08:51/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	12/22/10 18:59/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	12/22/10 18:59/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B	02/04/11 13:04/eli-c
Silver	ND	mg/L		0.005		2	E200.7	12/22/10 18:59/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/13/11 21:27/eli-c

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Collection Date: 12/14/10

Lab ID: R10120179-001

Date Received: 12/15/10

Client Sample ID: DB-09-21-01

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS - DISSOLVED							
Uranium	ND	mg/L		0.0003		1 E200.8	12/28/10 08:51/eli-c
Vanadium	ND	mg/L		0.1		2 E200.7	12/22/10 18:59/eli-c
Zinc	ND	mg/L		0.01		2 E200.7	12/22/10 18:59/eli-c
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		1 E200.8	01/06/11 02:05/eli-c
METALS - SPECIATED							
Selenium-IV	ND	mg/L		0.001		1 A3114 B	02/04/11 11:24/eli-c
Selenium-VI	0.002	mg/L		0.001		1 A3114 B	02/04/11 13:53/eli-c
RADIONUCLIDES - DISSOLVED							
Gross Alpha	-0.3	pCi/L	U			1 E900.0	01/04/11 22:52/eli-ca
Gross Alpha precision (±)	3.3	pCi/L				1 E900.0	01/04/11 22:52/eli-ca
Gross Alpha MDC	5.6	pCi/L				1 E900.0	01/04/11 22:52/eli-ca
Gross Beta	11.0	pCi/L				1 E900.0	01/04/11 22:52/eli-ca
Gross Beta precision (±)	4.2	pCi/L				1 E900.0	01/04/11 22:52/eli-ca
Gross Beta MDC	6.6	pCi/L				1 E900.0	01/04/11 22:52/eli-ca
Lead 210	-0.2	pCi/L	U			1 E909.0	01/03/11 15:01/eli-cs
Lead 210 precision (±)	0.8	pCi/L				1 E909.0	01/03/11 15:01/eli-cs
Lead 210 MDC	1.4	pCi/L				1 E909.0	01/03/11 15:01/eli-cs
Polonium 210	0.10	pCi/L	U			1 E912.0	01/05/11 11:54/eli-ca
Polonium 210 MDC	0.66	pCi/L				1 E912.0	01/05/11 11:54/eli-ca
Polonium 210 precision (±)	0.34	pCi/L				1 E912.0	01/05/11 11:54/eli-ca
Radium 226	1.9	pCi/L				1 E903.0	12/29/10 22:07/eli-c
Radium 226 precision (±)	0.3	pCi/L				1 E903.0	12/29/10 22:07/eli-c
Radium 226 MDC	0.2	pCi/L				1 E903.0	12/29/10 22:07/eli-c
Thorium 230	0.05	pCi/L	U			1 E908.0	01/09/11 13:55/eli-c
Thorium 230 MDC	0.1	pCi/L				1 E908.0	01/09/11 13:55/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1 E908.0	01/09/11 13:55/eli-c
Gross Gamma	390	pCi/L				1 E901.1	12/22/01 06:10/eli-c
Gross Gamma precision (±)	130	pCi/L				1 E901.1	12/22/01 06:10/eli-c
- See Case Narrative regarding Gross Gamma analysis.							
RADIONUCLIDES - SUSPENDED							
Lead 210	0.6	pCi/L	U			1 E909.0	01/06/11 17:33/eli-cs
Lead 210 precision (±)	1.7	pCi/L				1 E909.0	01/06/11 17:33/eli-cs
Lead 210 MDC	2.8	pCi/L				1 E909.0	01/06/11 17:33/eli-cs
Polonium 210	0.0	pCi/L	U			1 E912.0	01/30/11 12:31/eli-ca
Polonium 210 precision (±)	0.25	pCi/L				1 E912.0	01/30/11 12:31/eli-ca

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Collection Date: 12/14/10

Lab ID: R10120179-001

Date Received: 12/15/10

Client Sample ID: DB-09-21-01

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
RADIONUCLIDES - SUSPENDED								
Polonium 210 MDC	0.61	pCi/L				1	E912.0	01/30/11 12:31/eli-ca
Radium 226	-0.2	pCi/L	U			1	E903.0	01/03/11 12:21/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	01/03/11 12:21/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	01/03/11 12:21/eli-c
Thorium 230	-0.2	pCi/L	U			1	E908.0	01/02/11 13:19/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E908.0	01/02/11 13:19/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E908.0	01/02/11 13:19/eli-c
- See Case Narrative regarding Ra226 analysis.								
RADIONUCLIDES - TOTAL								
Radon 222	269	pCi/L		100		1	D5072-92	12/16/10 16:27/eli-c
TOTAL METALS ANALYSES								
Antimony	ND	mg/L		0.003		1	E200.8	01/04/11 17:55/eli-c
Arsenic	0.003	mg/L	B	0.001		1	E200.8	12/30/10 15:13/eli-c
Barium	ND	mg/L		0.1		1	E200.7	12/28/10 16:13/eli-c
Beryllium	ND	mg/L		0.001		1	E200.7	12/28/10 16:13/eli-c
Boron	ND	mg/L		0.1		1	E200.7	12/28/10 16:13/eli-c
Cadmium	ND	mg/L		0.005		1	E200.7	12/28/10 16:13/eli-c
Chromium	ND	mg/L		0.05		1	E200.7	12/28/10 16:13/eli-c
Copper	ND	mg/L		0.01		1	E200.7	12/28/10 16:13/eli-c
Iron	0.20	mg/L		0.03		1	E200.7	12/28/10 16:13/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/30/10 15:13/eli-c
Manganese	0.05	mg/L		0.01		1	E200.7	12/28/10 16:13/eli-c
Mercury	ND	mg/L		0.001		1	E245.1	12/20/10 16:53/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.7	12/28/10 16:13/eli-c
Nickel	ND	mg/L		0.05		1	E200.7	12/28/10 16:13/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	01/06/11 04:24/eli-c
Silver	ND	mg/L		0.005		1	E200.7	12/28/10 16:13/eli-c
Strontium	2.7	mg/L		0.1		1	E200.7	12/28/10 16:13/eli-c
Thallium	ND	mg/L		0.001		1	E200.8	12/30/10 15:13/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/04/11 17:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	12/28/10 16:13/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.940	%				1	A1030 E	01/24/11 00:00/jmh
Anions	14.8	meq/L				1	A1030 E	01/24/11 00:00/jmh
Cations	15.0	meq/L				1	A1030 E	01/24/11 00:00/jmh
Solids, Total Dissolved Calculated	979	mg/L				1	A1030 E	01/24/11 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01					1	A1030 E	01/24/11 00:00/jmh

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

B - The analyte was detected in the method blank.

U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Collection Date: 12/14/10

Lab ID: R10120179-002

Date Received: 12/15/10

Client Sample ID: DB-09-21-02

Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/		Method	Analysis Date / By
					QCL	DF		
MAJOR IONS								
Alkalinity, Total as CaCO3	194	mg/L		5		1	A2320 B	12/20/10 15:12/hv
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/20/10 15:12/hv
Bicarbonate as HCO3	236	mg/L		5		1	A2320 B	12/20/10 15:12/hv
Calcium	167	mg/L		0.5		2	E200.7	12/22/10 19:03/eli-c
Chloride	10	mg/L		1		1	E300.0	12/17/10 00:00/tb
Fluoride	0.6	mg/L		0.1		1	E300.0	12/17/10 00:00/tb
Magnesium	47.8	mg/L		0.5		2	E200.7	12/22/10 19:03/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/28/10 12:20/hv
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/17/10 00:00/tb
Nitrogen, Nitrite as N	ND	mg/L		0.1		1	E300.0	12/17/10 00:00/tb
Potassium	11.9	mg/L		0.5		2	E200.7	12/22/10 19:03/eli-c
Sodium	128	mg/L	D	0.6		2	E200.7	12/22/10 19:03/eli-c
Sulfate	682	mg/L	D	10		10	E300.0	12/16/10 23:43/tb
Silica	9.3	mg/L		0.2		2	E200.7	01/17/11 12:58/eli-c
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1540	umhos/cm		5.0		1	A2510 B	12/21/10 09:39/tb
Oxidation-Reduction Potential	200	mV				1	A2580 B	12/21/10 16:30/jmh
pH	7.30	s.u.		0.01		1	A4500-H B	12/15/10 14:12/hv
Sodium Adsorption Ratio (SAR)	2.2	unitless		0.10		1	Calculation	01/18/11 16:25/ADM
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	D	10		1	A2540 C	12/15/10 16:33/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	12/22/10 19:03/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/28/10 08:58/eli-c
Barium	ND	mg/L		0.1		2	E200.7	12/22/10 19:03/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/22/10 19:03/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	12/22/10 19:03/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	12/22/10 19:03/eli-c
Copper	ND	mg/L		0.01		2	E200.7	12/22/10 19:03/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/22/10 19:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/28/10 08:58/eli-c
Manganese	0.58	mg/L		0.01		2	E200.7	12/22/10 19:03/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/28/10 08:58/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	12/22/10 19:03/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	12/22/10 19:03/eli-c
Selenium	0.002	mg/L		0.001		1	A3114 B	02/04/11 13:06/eli-c
Silver	ND	mg/L		0.005		2	E200.7	12/22/10 19:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/13/11 21:31/eli-c

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Collection Date: 12/14/10

Lab ID: R10120179-002

Date Received: 12/15/10

Client Sample ID: DB-09-21-02

Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/			Method	Analysis Date / By
				RL	QCL	DF		
METALS - DISSOLVED								
Uranium	0.0083	mg/L		0.0003		1	E200.8	12/28/10 08:58/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	12/22/10 19:03/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	12/22/10 19:03/eli-c
METALS - SUSPENDED								
Uranium	ND	mg/L		0.0003		1	E200.8	01/06/11 02:09/eli-c
METALS - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/04/11 11:26/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	02/04/11 13:53/eli-c
RADIONUCLIDES - DISSOLVED								
Gross Alpha	18.2	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Alpha precision (±)	5.0	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Alpha MDC	6.6	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Beta	22.4	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Beta precision (±)	5.0	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Gross Beta MDC	7.7	pCi/L				1	E900.0	01/04/11 22:52/eli-ca
Lead 210	-0.8	pCi/L	U			1	E909.0	01/03/11 21:35/eli-cs
Lead 210 precision (±)	0.8	pCi/L				1	E909.0	01/03/11 21:35/eli-cs
Lead 210 MDC	1.4	pCi/L				1	E909.0	01/03/11 21:35/eli-cs
Polonium 210	0.096	pCi/L	U			1	E912.0	01/05/11 11:54/eli-ca
Polonium 210 MDC	0.62	pCi/L				1	E912.0	01/05/11 11:54/eli-ca
Polonium 210 precision (±)	0.32	pCi/L				1	E912.0	01/05/11 11:54/eli-ca
Radium 226	2.5	pCi/L				1	E903.0	12/29/10 22:07/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/29/10 22:07/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	12/29/10 22:07/eli-c
Thorium 230	0.04	pCi/L	U			1	E908.0	01/09/11 13:55/eli-c
Thorium 230 MDC	0.1	pCi/L				1	E908.0	01/09/11 13:55/eli-c
Thorium 230 precision (±)	0.07	pCi/L				1	E908.0	01/09/11 13:55/eli-c
Gross Gamma	<162.4	pCi/L	U			1	E901.1	12/22/01 06:10/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.3	pCi/L	U			1	E909.0	01/07/11 00:08/eli-cs
Lead 210 precision (±)	1.5	pCi/L				1	E909.0	01/07/11 00:08/eli-cs
Lead 210 MDC	2.5	pCi/L				1	E909.0	01/07/11 00:08/eli-cs
Polonium 210	0.0	pCi/L	U			1	E912.0	01/30/11 12:31/eli-ca
Polonium 210 precision (±)	0.27	pCi/L				1	E912.0	01/30/11 12:31/eli-ca
Polonium 210 MDC	0.66	pCi/L				1	E912.0	01/30/11 12:31/eli-ca

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling
Lab ID: R10120179-002
Client Sample ID: DB-09-21-02

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11
Report Date: 02/01/11
Collection Date: 12/14/10
Date Received: 12/15/10
Matrix: AQUEOUS

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
RADIONUCLIDES - SUSPENDED							
Radium 226	-0.1	pCi/L	U			1 E903.0	01/03/11 12:21/eli-c
Radium 226 precision (±)	0.2	pCi/L				1 E903.0	01/03/11 12:21/eli-c
Radium 226 MDC	0.4	pCi/L				1 E903.0	01/03/11 12:21/eli-c
Thorium 230	-0.1	pCi/L	U			1 E908.0	01/02/11 13:19/eli-c
Thorium 230 MDC	0.2	pCi/L				1 E908.0	01/02/11 13:19/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1 E908.0	01/02/11 13:19/eli-c
- See Case Narrative regarding Ra226 analysis.							
RADIONUCLIDES - TOTAL							
Radon 222	241	pCi/L		100		1 D5072-92	12/16/10 16:27/eli-c
TOTAL METALS ANALYSES							
Antimony	ND	mg/L		0.003		1 E200.8	12/28/10 09:32/eli-c
Arsenic	0.001	mg/L		0.001		1 E200.8	12/28/10 09:32/eli-c
Barium	ND	mg/L		0.1		1 E200.8	12/28/10 09:32/eli-c
Beryllium	ND	mg/L		0.001		1 E200.8	12/28/10 09:32/eli-c
Boron	ND	mg/L		0.1		2 E200.7	12/28/10 16:45/eli-c
Cadmium	ND	mg/L		0.005		1 E200.8	12/28/10 09:32/eli-c
Chromium	ND	mg/L		0.05		1 E200.8	12/28/10 09:32/eli-c
Copper	ND	mg/L		0.01		1 E200.8	12/28/10 09:32/eli-c
Iron	0.04	mg/L		0.03		2 E200.7	12/28/10 16:45/eli-c
Lead	ND	mg/L		0.001		1 E200.8	12/28/10 09:32/eli-c
Manganese	0.52	mg/L		0.01		1 E200.8	12/28/10 09:32/eli-c
Mercury	ND	mg/L		0.001		1 E245.1	12/20/10 16:54/eli-b
Molybdenum	ND	mg/L		0.1		1 E200.8	12/28/10 09:32/eli-c
Nickel	ND	mg/L		0.05		1 E200.8	12/28/10 09:32/eli-c
Selenium	ND	mg/L		0.001		1 E200.8	12/28/10 09:32/eli-c
Silver	ND	mg/L		0.005		1 E200.8	12/28/10 09:32/eli-c
Strontium	2.2	mg/L		0.1		1 E200.8	12/28/10 09:32/eli-c
Thallium	ND	mg/L		0.001		1 E200.8	12/28/10 09:32/eli-c
Uranium	0.0084	mg/L		0.0003		1 E200.8	12/28/10 09:32/eli-c
Zinc	ND	mg/L		0.01		1 E200.8	12/28/10 09:32/eli-c
DATA QUALITY							
A/C Balance (± 5)	-0.560	%				1 A1030 E	01/24/11 00:00/jmh
Anions	18.4	meq/L				1 A1030 E	01/24/11 00:00/jmh
Cations	18.2	meq/L				1 A1030 E	01/24/11 00:00/jmh
Solids, Total Dissolved Calculated	1190	mg/L				1 A1030 E	01/24/11 00:00/jmh
TDS Balance (0.80 - 1.20)	0.990					1 A1030 E	01/24/11 00:00/jmh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B		Batch: 101220A-ALK-SEL-W								
Sample ID: LCS1_101220A	Laboratory Control Sample					Run: PH_COND1-R_101220A		12/20/10 11:29		
Alkalinity, Total as CaCO3	964	mg/L	5.0	96	90	110				
Sample ID: MBLK1_101220A	Method Blank					Run: PH_COND1-R_101220A		12/20/10 11:34		
Alkalinity, Total as CaCO3	ND	mg/L	7							
Sample ID: R10120199-002AMS	Sample Matrix Spike					Run: PH_COND1-R_101220A		12/20/10 15:24		
Alkalinity, Total as CaCO3	136	mg/L	5.0	98	80	120				
Sample ID: R10120199-002AMSD	Sample Matrix Spike Duplicate					Run: PH_COND1-R_101220A		12/20/10 15:27		
Alkalinity, Total as CaCO3	136	mg/L	5.0	98	80	120	0.0	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Batch: 101221_2_COND-PROBE-W		
Sample ID: LCS1-1_101221		Laboratory Control Sample					Run: PH_COND2-R_101221B			12/21/10 09:26
Conductivity @ 25 C		149	umhos/cm	5.0	99	90	110			
Sample ID: LCS_COND-1_101221		Laboratory Control Sample					Run: PH_COND2-R_101221B			12/21/10 09:28
Conductivity @ 25 C		1410	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_101221		Laboratory Control Sample					Run: PH_COND2-R_101221B			12/21/10 09:30
Conductivity @ 25 C		5000	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_101221		Method Blank					Run: PH_COND2-R_101221B			12/21/10 09:33
Conductivity @ 25 C		ND	umhos/cm	5						
Sample ID: R10120179-001ADUP		Sample Duplicate					Run: PH_COND2-R_101221B			12/21/10 09:37
Conductivity @ 25 C		1350	umhos/cm	5.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Report Date: 02/01/11

Client: Powertech USA Inc

Work Order: R10120179

Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C		Batch: 101215A-SLDS-TDS-W								
Sample ID: LCS1_101215A	Laboratory Control Sample		Run: BAL-4-R_101215A							
Solids, Total Dissolved TDS @ 180 C	180	mg/L	10	90	90	110			12/15/10 16:27	
Sample ID: MBLK1_101215A	Method Blank		Run: BAL-4-R_101215A							
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						12/15/10 16:27	
Sample ID: R10120135-001ADUP	Sample Duplicate		Run: BAL-4-R_101215A							
Solids, Total Dissolved TDS @ 180 C	1200	mg/L	10					2.3	5	12/15/10 16:29
Sample ID: R10120179-002AMS	Sample Matrix Spike		Run: BAL-4-R_101215A							
Solids, Total Dissolved TDS @ 180 C	2300	mg/L	10	108	90	110			12/15/10 16:33	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2580 B								Batch: 101221-ORP-ISE-W		
Sample ID: LCS	Laboratory Control Sample			Run: PH_COND1-R_101221A				12/21/10 16:30		
Oxidation-Reduction Potential		480	mV	100		95	105			
Sample ID: R10120179-001F	Sample Duplicate			Run: PH_COND1-R_101221A				12/21/10 16:30		
Oxidation-Reduction Potential		180	mV					3.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										Batch: C_28638
Sample ID: LCS-28638		Laboratory Control Sample					Run: SUB-C141280			12/28/10 12:29
Selenium-IV		0.050	mg/L	0.0010	99	90	110			
Sample ID: MB-28638		Method Blank					Run: SUB-C141280			12/28/10 12:27
Selenium-IV		ND	mg/L	0.0003						
Sample ID: R10120179-002E		Sample Matrix Spike Duplicate					Run: SUB-C141280			12/28/10 12:38
Selenium-IV		0.048	mg/L	0.0010	97	85	115	15	15	
Sample ID: R10120179-002E		Sample Matrix Spike					Run: SUB-C141280			12/28/10 12:36
Selenium-IV		0.056	mg/L	0.0010	112	85	115			
Method: A3114 B										Batch: C_28638
Sample ID: R10120179-002E		Sample Matrix Spike					Run: SUB-C141299			12/28/10 14:33
Selenium		0.061	mg/L	0.0010	91	85	115			
Sample ID: LCS-28638		Laboratory Control Sample					Run: SUB-C141299			12/28/10 14:26
Selenium		0.054	mg/L	0.0010	107	90	110			
Sample ID: R10120179-002E		Sample Matrix Spike Duplicate					Run: SUB-C141299			12/28/10 14:35
Selenium		0.059	mg/L	0.0010	86	85	115	3.5	15	
Sample ID: MB-28638		Method Blank					Run: SUB-C141299			12/28/10 14:24
Selenium		ND	mg/L	0.0002						
Method: A3114 B										Batch: C_28638
Sample ID: MB-28638		Method Blank					Run: SUB-C142470			02/04/11 11:20
Selenium-IV		ND	mg/L	0.0003						
Sample ID: LCS-28638		Laboratory Control Sample					Run: SUB-C142470			02/04/11 11:22
Selenium-IV		0.024	mg/L	0.0010	96	90	110			
Sample ID: R10120179-002E		Sample Matrix Spike					Run: SUB-C142470			02/04/11 11:27
Selenium-IV		0.025	mg/L	0.0010	102	85	115			
Sample ID: R10120179-002E		Sample Matrix Spike Duplicate					Run: SUB-C142470			02/04/11 11:29
Selenium-IV		0.025	mg/L	0.0010	102	85	115	0.3	15	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B										
Batch: C_28638										
Sample ID: R10120179-002E	Sample Matrix Spike Duplicate									
Selenium	0.024	mg/L	0.0010	88	85	115	11	15	Run: SUB-C142475 02/04/11 13:09	
Sample ID: MB-28638	Method Blank									
Selenium	ND	mg/L	0.0003			Run: SUB-C142475		02/04/11 13:00		
Sample ID: LCS-28638	Laboratory Control Sample									
Selenium	0.025	mg/L	0.0010	102	90	110			Run: SUB-C142475 02/04/11 13:02	
Sample ID: R10120179-002E	Sample Matrix Spike									
Selenium	0.021	mg/L	0.0010	78	85	115			Run: SUB-C142475 02/04/11 13:07 S	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 101215_1_PH-W		
Sample ID: LCS_pH-1_101215	Laboratory Control Sample			Run: PH_COND2-R_101215A		12/15/10 13:37				
pH	7.43	s.u.	0.010	100	98.55	101.45				
Sample ID: R10120153-001ADUP	Sample Duplicate			Run: PH_COND2-R_101215A		12/15/10 13:45				
pH	8.46	s.u.	0.010		0.4	1.25				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2010-12-28_2_NH3_01		
Sample ID: MBLK-2		Method Blank					Run: TECHAA2-R_101228A			12/28/10 11:48
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LFB-3		Laboratory Fortified Blank					Run: TECHAA2-R_101228A			12/28/10 11:49
Nitrogen, Ammonia as N		0.23	mg/L	0.10	91	90	110			
Sample ID: R10120179-001BMS		Sample Matrix Spike					Run: TECHAA2-R_101228A			12/28/10 12:18
Nitrogen, Ammonia as N		0.43	mg/L	0.10	94	80	120			
Sample ID: R10120179-001BMSD		Sample Matrix Spike Duplicate					Run: TECHAA2-R_101228A			12/28/10 12:19
Nitrogen, Ammonia as N		0.42	mg/L	0.10	91	80	120	1.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D5072-92										Batch: C_R141031
Sample ID: R10120179-002G										
Radon 222		Sample Duplicate					Run: SUB-C141031			12/16/10 16:27
		270	pCi/L	100				12	30	
Sample ID: MB-R141031										
Radon 222		Method Blank					Run: SUB-C141031			12/16/10 16:27
		10	pCi/L							U
Sample ID: LCS-R141031										
Radon 222		Laboratory Control Sample					Run: SUB-C141031			12/16/10 16:27
		300	pCi/L	100	94	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: C_R141199
Sample ID: C10120365-002AMSD2				17 Sample Matrix Spike Duplicate		Run: SUB-C141199			12/22/10 18:22	
Aluminum		1.88	mg/L	0.10	92	70	130	2.2	20	
Barium		2.03	mg/L	0.10	98	70	130	1.3	20	
Boron		2.47	mg/L	0.10	100	70	130	1.5	20	
Cadmium		1.96	mg/L	0.010	96	70	130	2.4	20	
Chromium		1.97	mg/L	0.050	97	70	130	1.4	20	
Copper		2.03	mg/L	0.010	99	70	130	1.4	20	
Iron		1.99	mg/L	0.030	97	70	130	2.1	20	
Manganese		2.00	mg/L	0.010	98	70	130	0.8	20	
Molybdenum		2.01	mg/L	0.10	96	70	130	0.8	20	
Nickel		1.97	mg/L	0.050	97	70	130	0.8	20	
Silver		1.97	mg/L	0.010	97	70	130	1.7	20	
Vanadium		1.97	mg/L	0.10	97	70	130	0.3	20	
Zinc		2.03	mg/L	0.010	97	70	130	1.1	20	
Calcium		292	mg/L	1.0	94	70	130	0.2	20	
Magnesium		276	mg/L	1.0	99	70	130	1.2	20	
Potassium		127	mg/L	1.0	80	70	130	0.2	20	
Sodium		627	mg/L	1.0		70	130	0.3	20	A
Sample ID: C10120365-002AMSD2				17 Sample Matrix Spike		Run: SUB-C141199			12/22/10 18:18	
Aluminum		1.84	mg/L	0.10	90	70	130			
Barium		2.00	mg/L	0.10	97	70	130			
Boron		2.43	mg/L	0.10	98	70	130			
Cadmium		1.92	mg/L	0.010	94	70	130			
Chromium		1.95	mg/L	0.050	95	70	130			
Copper		2.00	mg/L	0.010	98	70	130			
Iron		1.95	mg/L	0.030	95	70	130			
Manganese		1.98	mg/L	0.010	97	70	130			
Molybdenum		2.00	mg/L	0.10	95	70	130			
Nickel		1.99	mg/L	0.050	97	70	130			
Silver		1.94	mg/L	0.010	95	70	130			
Vanadium		1.97	mg/L	0.10	97	70	130			
Zinc		2.01	mg/L	0.010	96	70	130			
Calcium		292	mg/L	1.0	94	70	130			
Magnesium		273	mg/L	1.0	96	70	130			
Potassium		127	mg/L	1.0	80	70	130			
Sodium		625	mg/L	1.0		70	130			A
Sample ID: LFB-101222A				17 Laboratory Fortified Blank		Run: SUB-C141199			12/22/10 11:33	
Aluminum		0.94	mg/L	0.10	94	85	115			
Barium		0.94	mg/L	0.10	94	85	115			
Boron		0.97	mg/L	0.10	97	85	115			
Cadmium		0.97	mg/L	0.010	97	85	115			
Calcium		48	mg/L	0.50	96	85	115			
Chromium		0.95	mg/L	0.050	95	85	115			
Copper		0.97	mg/L	0.010	97	85	115			

Qualifiers:

RL - Analyte reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: C_R141199										
Sample ID: LFB-101222A	17	Laboratory Fortified Blank			Run: SUB-C141199			12/22/10 11:33		
Iron		0.95	mg/L	0.030	95	85	115			
Magnesium		47	mg/L	0.50	95	85	115			
Manganese		0.96	mg/L	0.010	96	85	115			
Molybdenum		0.95	mg/L	0.10	95	85	115			
Nickel		0.94	mg/L	0.050	94	85	115			
Potassium		44	mg/L	0.50	88	85	115			
Silver		0.95	mg/L	0.010	95	85	115			
Sodium		47	mg/L	0.50	94	85	115			
Vanadium		0.98	mg/L	0.10	98	85	115			
Zinc		0.96	mg/L	0.010	96	85	115			
Sample ID: MB-101222A	17	Method Blank			Run: SUB-C141199			12/22/10 11:29		
Aluminum		ND	mg/L	0.01						
Barium		0.0009	mg/L	0.0005						
Boron		ND	mg/L	0.009						
Cadmium		ND	mg/L	0.001						
Calcium		ND	mg/L	0.2						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		0.002	mg/L	0.002						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Potassium		ND	mg/L	0.02						
Silver		ND	mg/L	0.001						
Sodium		ND	mg/L	0.3						
Vanadium		ND	mg/L	0.03						
Zinc		0.002	mg/L	0.001						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: C_28617										
Sample ID: MB-28617	13	Method Blank				Run: SUB-C141316				12/28/10 15:57
Barium		ND	mg/L	0.002						
Beryllium		ND	mg/L	0.0001						
Boron		0.01	mg/L	0.008						
Cadmium		ND	mg/L	0.001						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.008						
Manganese		ND	mg/L	0.0008						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Silver		ND	mg/L	0.001						
Strontium		ND	mg/L	0.0002						
Zinc		ND	mg/L	0.008						
Sample ID: C10120619-002CMS3	13	Sample Matrix Spike				Run: SUB-C141316				12/28/10 16:37
Barium		0.345	mg/L	0.10	69	70	130			S
Beryllium		0.235	mg/L	0.010	94	70	130			
Boron		2.40	mg/L	0.41		70	130			A
Cadmium		0.225	mg/L	0.056	90	70	130			
Chromium		0.440	mg/L	0.12	88	70	130			
Copper		0.575	mg/L	0.071	115	70	130			
Iron		6.96	mg/L	0.41	113	70	130			
Manganese		3.10	mg/L	0.038	93	70	130			
Molybdenum		0.540	mg/L	0.26	108	70	130			
Nickel		0.455	mg/L	0.13	91	70	130			
Silver		ND	mg/L	0.071		70	130			S
Strontium		9.64	mg/L	0.10		70	130			A
Zinc		0.635	mg/L	0.40	127	70	130			
Sample ID: LCS3-28617	13	Laboratory Control Sample				Run: SUB-C141316				12/28/10 16:01
Barium		0.501	mg/L	0.10	100	85	115			
Beryllium		0.258	mg/L	0.010	103	85	115			
Boron		0.507	mg/L	0.10	99	85	115			
Cadmium		0.247	mg/L	0.010	99	85	115			
Chromium		0.502	mg/L	0.050	100	85	115			
Copper		0.511	mg/L	0.010	102	85	115			
Iron		2.54	mg/L	0.030	102	85	115			
Manganese		2.52	mg/L	0.010	101	85	115			
Molybdenum		0.518	mg/L	0.10	104	85	115			
Nickel		0.514	mg/L	0.050	103	85	115			
Silver		0.0504	mg/L	0.010	101	85	115			
Strontium		0.508	mg/L	0.10	102	85	115			
Zinc		0.512	mg/L	0.010	102	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7 Batch: C_28617										
Sample ID: C10120619-002CMSD3 13 Sample Matrix Spike Duplicate Run: SUB-C141316 12/28/10 16:41										
Barium		0.370	mg/L	0.10	74	70	130	7.0	20	
Beryllium		0.235	mg/L	0.010	94	70	130	0.0	20	
Boron		2.26	mg/L	0.41	70	130	130	6.2	20	A
Cadmium		0.230	mg/L	0.056	92	70	130	2.2	20	
Chromium		0.435	mg/L	0.12	87	70	130	1.1	20	
Copper		0.550	mg/L	0.071	110	70	130	4.4	20	
Iron		7.13	mg/L	0.41	120	70	130	2.4	20	
Manganese		3.15	mg/L	0.038	95	70	130	1.6	20	
Molybdenum		0.545	mg/L	0.26	109	70	130	0.9	20	
Nickel		0.490	mg/L	0.13	98	70	130	7.4	20	
Silver		ND	mg/L	0.071		70	130		20	S
Strontium		19.1	mg/L	0.10		70	130	66	20	AR
Zinc		0.675	mg/L	0.40	135	70	130	6.1	20	S
Method: E200.7 Batch: C_R141316										
Sample ID: MB-101228A 2 Method Blank Run: SUB-C141316 12/28/10 14:29										
Boron		ND	mg/L	0.009						
Iron		ND	mg/L	0.002						
Sample ID: LFB-101228A 2 Laboratory Fortified Blank Run: SUB-C141316 12/28/10 14:33										
Boron		0.95	mg/L	0.10	95	85	115			
Iron		0.98	mg/L	0.030	98	85	115			
Sample ID: C10110844-005BMS2 2 Sample Matrix Spike Run: SUB-C141316 12/28/10 15:28										
Boron		2.19	mg/L	0.10	97	70	130			
Iron		1.96	mg/L	0.030	96	70	130			
Sample ID: C10110844-005BMSD2 2 Sample Matrix Spike Duplicate Run: SUB-C141316 12/28/10 15:32										
Boron		2.17	mg/L	0.10	96	70	130	0.9	20	
Iron		1.95	mg/L	0.030	95	70	130	0.5	20	
Method: E200.7 Batch: C_R141904										
Sample ID: LFB-110117B Laboratory Fortified Blank Run: SUB-C141904 01/17/11 11:54										
Silicon		0.43	mg/L	0.10	92	85	115			
Sample ID: R10120179-001C Sample Matrix Spike Run: SUB-C141904 01/17/11 12:50										
Silicon		5.62	mg/L	0.10		70	130			A
Sample ID: R10120179-001C Sample Matrix Spike Duplicate Run: SUB-C141904 01/17/11 12:54										
Silicon		5.61	mg/L	0.10		70	130	0.2	20	A
Sample ID: MB-110117B Method Blank Run: SUB-C141904 01/17/11 11:50										
Silicon		ND	mg/L	0.007						

Qualifiers:

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ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8		Batch: C_R141273									
Sample ID: C10120614-001CMS4	18	Post Digestion Spike		Run: SUB-C141273				12/28/10 09:45			
Antimony		0.261	mg/L	0.050	102	70	130				
Arsenic		0.510	mg/L	0.0015	89	70	130				
Barium		0.737	mg/L	0.10	98	70	130				
Beryllium		0.221	mg/L	0.010	88	70	130				
Cadmium		0.213	mg/L	0.010	85	70	130				
Chromium		0.228	mg/L	0.050	91	70	130				
Copper		0.217	mg/L	0.010	85	70	130				
Lead		0.251	mg/L	0.050	100	70	130				
Manganese		0.278	mg/L	0.010	90	70	130				
Mercury		0.0250	mg/L	0.0010	99	70	130				
Molybdenum		0.284	mg/L	0.10	100	70	130				
Nickel		0.237	mg/L	0.050	84	70	130				
Selenium		0.240	mg/L	0.0035	84	70	130				
Silver		0.0770	mg/L	0.010	77	70	130				
Strontium		40.4	mg/L	0.10		70	130			A	
Thallium		0.255	mg/L	0.10	101	70	130				
Uranium		0.277	mg/L	0.00030	111	70	130				
Zinc		0.215	mg/L	0.010	81	70	130				
Sample ID: LRB	18	Method Blank		Run: SUB-C141273				12/27/10 16:48			
Antimony		ND	mg/L	7E-05							
Arsenic		ND	mg/L	6E-05							
Barium		ND	mg/L	3E-05							
Beryllium		ND	mg/L	3E-05							
Cadmium		ND	mg/L	1E-05							
Chromium		ND	mg/L	4E-05							
Copper		ND	mg/L	7E-05							
Lead		ND	mg/L	3E-05							
Manganese		ND	mg/L	5E-05							
Mercury		ND	mg/L	8E-05							
Molybdenum		0.0007	mg/L	5E-05							
Nickel		ND	mg/L	0.0007							
Selenium		ND	mg/L	0.0002							
Silver		ND	mg/L	3E-05							
Strontium		ND	mg/L	3E-05							
Thallium		ND	mg/L	1E-05							
Uranium		ND	mg/L	1E-05							
Zinc		ND	mg/L	0.0003							
Sample ID: LFB	18	Laboratory Fortified Blank		Run: SUB-C141273				12/27/10 16:55			
Antimony		0.0552	mg/L	0.0010	110	85	115				
Arsenic		0.0549	mg/L	0.0010	110	85	115				
Barium		0.0554	mg/L	0.0010	111	85	115				
Beryllium		0.0569	mg/L	0.0010	114	85	115				
Cadmium		0.0548	mg/L	0.0010	110	85	115				

Qualifiers:

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A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_R141273
Sample ID: LFB	18	Laboratory Fortified Blank			Run: SUB-C141273			12/27/10 16:55		
Chromium		0.0540	mg/L	0.0010	108	85	115			
Copper		0.0533	mg/L	0.0010	107	85	115			
Lead		0.0554	mg/L	0.0010	111	85	115			
Manganese		0.0544	mg/L	0.0010	109	85	115			
Mercury		0.00567	mg/L	0.0010	113	85	115			
Molybdenum		0.0562	mg/L	0.0010	111	85	115			
Nickel		0.0538	mg/L	0.0010	108	85	115			
Selenium		0.0550	mg/L	0.0010	110	85	115			
Silver		0.0213	mg/L	0.0010	106	85	115			
Strontium		0.0544	mg/L	0.0010	109	85	115			
Thallium		0.0548	mg/L	0.0010	110	85	115			
Uranium		0.0563	mg/L	0.00030	113	85	115			
Zinc		0.0566	mg/L	0.0010	113	85	115			
Sample ID: C10120614-001CMSD4	18	Post Digestion Spike Duplicate			Run: SUB-C141273			12/28/10 09:52		
Antimony		0.282	mg/L	0.050	111	70	130	8.0	20	
Arsenic		0.532	mg/L	0.0015	98	70	130	4.1	20	
Barium		0.789	mg/L	0.10	119	70	130	6.7	20	
Beryllium		0.230	mg/L	0.010	92	70	130	4.4	20	
Cadmium		0.227	mg/L	0.010	91	70	130	6.4	20	
Chromium		0.240	mg/L	0.050	96	70	130	5.3	20	
Copper		0.224	mg/L	0.010	88	70	130	3.5	20	
Lead		0.265	mg/L	0.050	106	70	130	5.5	20	
Manganese		0.299	mg/L	0.010	98	70	130	7.1	20	
Mercury		0.0274	mg/L	0.0010	109	70	130	9.0	20	
Molybdenum		0.302	mg/L	0.10	107	70	130	6.1	20	
Nickel		0.244	mg/L	0.050	87	70	130	2.9	20	
Selenium		0.247	mg/L	0.0035	87	70	130	3.2	20	
Silver		0.0832	mg/L	0.010	83	70	130	7.7	20	
Strontium		41.6	mg/L	0.10		70	130	3.0	20	A
Thallium		0.271	mg/L	0.10	107	70	130	6.0	20	
Uranium		0.289	mg/L	0.00030	116	70	130	4.4	20	
Zinc		0.277	mg/L	0.010	106	70	130	25	20	R

Qualifiers:

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ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

R - RPD exceeds advisory limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

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Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: C_28617
Sample ID: C10120619-002CMSD3										12/30/10 16:14
3 Sample Matrix Spike Duplicate		Run: SUB-C141375								
Arsenic		0.431	mg/L	0.0010	83	70	130	0.5		20
Lead		0.525	mg/L	0.050	104	70	130	4.6		20
Thallium		0.541	mg/L	0.10	108	70	130	3.7		20
Sample ID: C10120619-002CMS3										12/30/10 16:07
3 Sample Matrix Spike		Run: SUB-C141375								
Arsenic		0.433	mg/L	0.0010	83	70	130			
Lead		0.501	mg/L	0.050	99	70	130			
Thallium		0.522	mg/L	0.10	104	70	130			
Sample ID: LCS3-28617										12/30/10 14:53
3 Laboratory Control Sample		Run: SUB-C141375								
Arsenic		0.494	mg/L	0.0010	98	85	115			
Lead		0.523	mg/L	0.050	105	85	115			
Thallium		0.511	mg/L	0.10	102	85	115			
Sample ID: MB-28617										12/30/10 14:46
3 Method Blank		Run: SUB-C141375								
Arsenic		0.002	mg/L	0.0003						
Lead		ND	mg/L	5E-05						
Thallium		0.0004	mg/L	5E-05						
Method: E200.8										Batch: C_28617
Sample ID: C10120619-002CMS3										01/04/11 18:22
2 Sample Matrix Spike		Run: SUB-C141484								
Antimony		0.491	mg/L	0.050	98	70	130			
Selenium		0.192	mg/L	0.0010	38	70	130			S
Sample ID: C10120619-002CMSD3										01/04/11 18:28
2 Sample Matrix Spike Duplicate		Run: SUB-C141484								
Antimony		0.493	mg/L	0.050	98	70	130	0.4		20
Selenium		0.242	mg/L	0.0010	49	70	130	23		20 SR
Sample ID: LCS3-28617										01/04/11 17:08
2 Laboratory Control Sample		Run: SUB-C141484								
Antimony		0.563	mg/L	0.050	113	85	115			
Selenium		0.513	mg/L	0.0010	103	85	115			
Sample ID: MB-28617										01/04/11 17:01
2 Method Blank		Run: SUB-C141484								
Antimony		0.0003	mg/L	0.0002						
Selenium		ND	mg/L	0.0007						

Qualifiers:

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ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: C_28617										
Sample ID: MB-28617		Method Blank								
Selenium		ND	mg/L	0.0007						01/06/11 04:04
Run: SUB-C141538										
Sample ID: C10120619-002CMSD3		Sample Matrix Spike Duplicate								
Selenium		0.397	mg/L	0.0010	79	70	130	5.8	20	01/06/11 05:25
Run: SUB-C141538										
Sample ID: LCS3-28617		Laboratory Control Sample								
Selenium		0.452	mg/L	0.0010	90	85	115			01/06/11 04:10
Run: SUB-C141538										
Sample ID: C10120619-002CMS3		Sample Matrix Spike								
Selenium		0.421	mg/L	0.0010	84	70	130			01/06/11 05:18
Run: SUB-C141538										
Method: E200.8										
Batch: C_28598										
Sample ID: R10120179-002I		Post Digestion Spike Duplicate								
Uranium		0.0670	mg/L	0.00030	134	70	130	0.6	20	01/06/11 02:17
Run: SUB-C141539										
Sample ID: R10120179-002I		Post Digestion Spike								
Uranium		0.0673	mg/L	0.00030	135	70	130			01/06/11 02:13
Run: SUB-C141539										
Sample ID: MB-28598		Method Blank								
Uranium		0.0002	mg/L	7E-05						01/06/11 01:36
Run: SUB-C141539										
Sample ID: LCS2-28598		Laboratory Control Sample								
Uranium		0.119	mg/L	0.00030	118	85	115			01/06/11 01:40
Run: SUB-C141539										
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved.										
Method: E200.8										
Batch: C_R141821										
Sample ID: LRB		Method Blank								
Thorium 232		4E-05	mg/L	3E-05						01/13/11 12:12
Run: SUB-C141821										
Sample ID: LFB		Laboratory Fortified Blank								
Thorium 232		0.0526	mg/L	0.0010	105	85	115			01/13/11 12:16
Run: SUB-C141821										
Sample ID: R10120179-002C		Post Digestion Spike								
Thorium 232		0.0559	mg/L	0.0010	109	70	130			01/13/11 21:36
Run: SUB-C141821										
Sample ID: R10120179-002C		Post Digestion Spike Duplicate								
Thorium 232		0.0583	mg/L	0.0010	114	70	130	4.2	20	01/13/11 21:40
Run: SUB-C141821										

Qualifiers:

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MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1								Analytical Run: SUB-B158820		
Sample ID: QCS Initial Calibration Verification Standard										
Mercury		0.0020	mg/L	0.0010	102	90	110			12/20/10 15:34
Method: E245.1								Batch: B_51167		
Sample ID: MB-51167 Method Blank										
Mercury		3E-05	mg/L	1E-05						Run: SUB-B158820 12/20/10 16:39
Sample ID: LCS-51167 Laboratory Control Sample										
Mercury		0.0019	mg/L	0.0010	92	85	115			Run: SUB-B158820 12/20/10 16:41
Sample ID: B10121480-001BMS Sample Matrix Spike										
Mercury		0.0015	mg/L	0.0010	75	70	130			Run: SUB-B158820 12/20/10 16:46
Sample ID: B10121480-001BMDS Sample Matrix Spike Duplicate										
Mercury		0.0016	mg/L	0.0010	80	70	130	5.8	30	Run: SUB-B158820 12/20/10 16:49

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Report Date: 02/01/11

Client: Powertech USA Inc

Work Order: R10120179

Project: Dewey Groundwater Sampling

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R49463
Sample ID: LFB121610-14	5	Laboratory Fortified Blank		Run: DIONEX_101216A				12/16/10 21:57		
Chloride		38.1	mg/L	1.00	95	90	110			
Fluoride		3.88	mg/L	0.10	97	90	110			
Nitrogen, Nitrate as N		3.79	mg/L	0.10	95	90	110			
Nitrogen, Nitrite as N		3.91	mg/L	0.10	98	90	110			
Sulfate		37.4	mg/L	1.0	94	90	110			
Sample ID: R10120177-001BMS	5	Sample Matrix Spike		Run: DIONEX_101216A				12/16/10 22:32		
Chloride		54.1	mg/L	1.00	98	90	110			
Fluoride		4.64	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N		4.26	mg/L	0.10	91	90	110			
Nitrogen, Nitrite as N		3.91	mg/L	0.10	98	90	110			
Sulfate		108	mg/L	1.0	106	90	110			
Sample ID: R10120177-001BMSD	5	Sample Matrix Spike Duplicate		Run: DIONEX_101216A				12/16/10 22:50		
Chloride		54.2	mg/L	1.00	98	90	110	0.2	10	
Fluoride		4.65	mg/L	0.10	92	90	110	0.3	10	
Nitrogen, Nitrate as N		4.26	mg/L	0.10	91	90	110	0.1	10	
Nitrogen, Nitrite as N		3.90	mg/L	0.10	98	90	110	0.3	10	
Sulfate		109	mg/L	1.0	107	90	110	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: C_GrAB-1025
Sample ID: MB-GrAB-1025	6	Method Blank					Run: SUB-C141522		01/04/11 22:52	
Gross Alpha		-0.8	pCi/L							U
Gross Alpha precision (±)		0.6	pCi/L							
Gross Alpha MDC		0.7	pCi/L							
Gross Beta		-1	pCi/L							U
Gross Beta precision (±)		1	pCi/L							
Gross Beta MDC		1	pCi/L							
Sample ID: Th230-GrAB-1025		Laboratory Control Sample					Run: SUB-C141522		01/04/11 22:52	
Gross Alpha		100	pCi/L	98		70	130			
Sample ID: R10120179-001H	6	Sample Duplicate					Run: SUB-C141522		01/04/11 22:52	
Gross Alpha		-0.63	pCi/L					77	1337.7	U
Gross Alpha precision (±)		3.2	pCi/L							
Gross Alpha MDC		5.5	pCi/L							
Gross Beta		8.0	pCi/L					32	95.6	
Gross Beta precision (±)		4.1	pCi/L							
Gross Beta MDC		6.6	pCi/L							
Sample ID: C10120819-001FMS		Sample Matrix Spike					Run: SUB-C141522		01/05/11 11:01	
Gross Alpha		112	pCi/L	98		70	130			
Sample ID: C10120819-001FMSD		Sample Matrix Spike Duplicate					Run: SUB-C141522		01/05/11 11:01	
Gross Beta		90.0	pCi/L	96		70	130	0.3	15.6	
Sample ID: C10120819-001FMSD		Sample Matrix Spike Duplicate					Run: SUB-C141522		01/05/11 11:01	
Gross Alpha		109	pCi/L	95		70	130	2.8	17.3	

Qualifiers:

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QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										
Batch: C_R141237										
Sample ID: R10120179-002H	23	Sample Duplicate		Run: SUB-C141237			12/22/01 06:10			
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		360	pCi/L	50					30	
Thorium 234 precision (±)		130	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		360	pCi/L					200	30	R
Gross Gamma precision (±)		130	pCi/L							
- Activity of original sample is below detection limit; duplicate is above detection limit, but within the limits of precision. RER is acceptable, therefore the batch is acceptable										
Sample ID: LCS-R141237	3	Laboratory Control Sample		Run: SUB-C141237			12/22/01 06:10			
Americium 241		660	pCi/L	50	81	70	130			
Cesium 137		990	pCi/L	50	99	70	130			
Potassium 40		6600	pCi/L	50	99	70	130			
Sample ID: MB-R141237	23	Method Blank		Run: SUB-C141237			12/22/01 06:10			
Americium 241 precision (±)		ND	pCi/L							
Barium 133 precision (±)		ND	pCi/L							
Bismuth 212 precision (±)		ND	pCi/L							
Bismuth 214 precision (±)		ND	pCi/L							
Cesium 134 precision (±)		ND	pCi/L							
Cesium 137 precision (±)		ND	pCi/L							
Cobalt 60 precision (±)		ND	pCi/L							
Iodine 125 precision (±)		ND	pCi/L							
Iodine 131 precision (±)		ND	pCi/L							
Lead 212 precision (±)		ND	pCi/L							
Lead 214 precision (±)		ND	pCi/L							
Manganese 54 precision (±)		ND	pCi/L							
Potassium 40 precision (±)		ND	pCi/L							
Radium 223 precision (±)		ND	pCi/L							

Qualifiers:

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ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

R - RPD exceeds advisory limit.



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Client: Powertech USA Inc
Project: Dewey Groundwater Sampling

Revised Date: 02/14/11
Report Date: 02/01/11
Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: C_R141237
Sample ID: MB-R141237	23	Method Blank					Run: SUB-C141237			12/22/01 06:10
Radium 224 precision (±)		ND	pCi/L							
Thallium 208 precision (±)		ND	pCi/L							
Thorium 228 precision (±)		ND	pCi/L							
Thorium 234		400	pCi/L							
Thorium 234 precision (±)		80	pCi/L							
Zinc 65 precision (±)		ND	pCi/L							
Radium 228 precision (±)		ND	pCi/L							
Gross Gamma		400	pCi/L							
Gross Gamma precision (±)		80	pCi/L							

- See Case Narrative regarding Gross Gamma analysis.

Qualifiers:

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MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										
Batch: C_RA226-5079										
Sample ID: LCS-RA226-5079		Laboratory Control Sample					Run: SUB-C141391			12/29/10 22:07
Radium 226		8.1	pCi/L		129	70	130			
Sample ID: C10120676-001AMSD		Sample Matrix Spike Duplicate					Run: SUB-C141391			12/29/10 16:43
Radium 226		16.4	pCi/L		106	70	130	8.6	22.9	
Sample ID: C10120676-001AMS		Sample Matrix Spike					Run: SUB-C141391			12/29/10 16:43
Radium 226		15.0	pCi/L		95	70	130			
Sample ID: MB-RA226-5079	3	Method Blank					Run: SUB-C141391			12/29/10 22:07
Radium 226		-0.05	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Method: E903.0										
Batch: C_R141421										
Sample ID: LCS-28598		Laboratory Control Sample					Run: SUB-C141421			01/03/11 12:21
Radium 226		14	pCi/L		113	70	130			
Sample ID: R10120179-001I		Sample Matrix Spike Duplicate					Run: SUB-C141421			01/03/11 12:21
Radium 226		30	pCi/L		115	70	130	3.8	24.7	
Sample ID: MB-28598	3	Method Blank					Run: SUB-C141421			01/03/11 12:21
Radium 226		0.02	pCi/L							U
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.3	pCi/L							
Sample ID: R10120179-001I		Sample Matrix Spike					Run: SUB-C141421			01/03/11 12:21
Radium 226		29	pCi/L		110	70	130			

Qualifiers:

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QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0										Batch: C_R141572
Sample ID: C10120734-007HMS										
Sample Matrix Spike										Run: SUB-C141572
Thorium 230		9.1	pCi/L		104	70	130			01/02/11 13:19
Sample ID: MB-28598										
3 Method Blank										Run: SUB-C141572
Thorium 230		0.04	pCi/L							01/02/11 13:19
Thorium 230 MDC		0.10	pCi/L							U
Thorium 230 precision (±)		0.1	pCi/L							
Sample ID: C10120734-007HMSD										
Sample Matrix Spike Duplicate										Run: SUB-C141572
Thorium 230		9.3	pCi/L		106	70	130	1.6	30.3	01/04/11 09:07
Sample ID: LCS-28598										
Laboratory Control Sample										Run: SUB-C141572
Thorium 230		11	pCi/L		112	70	130			01/02/11 13:19
Method: E908.0										Batch: C_RA-TH-ISO-1314
Sample ID: LCS-RA-TH-ISO-1314										
Laboratory Control Sample										Run: SUB-C141753
Thorium 230		5.3	pCi/L		93	70	130			01/09/11 13:55
Sample ID: C10120463-001AMS										
Sample Matrix Spike										Run: SUB-C141753
Thorium 230		11	pCi/L		95	70	130			01/09/11 13:55
Sample ID: C10120463-001AMSD										
Sample Matrix Spike Duplicate										Run: SUB-C141753
Thorium 230		13	pCi/L		115	70	130	19	45.5	01/09/11 13:55
Sample ID: MB-RA-TH-ISO-1314										
3 Method Blank										Run: SUB-C141753
Thorium 230		0.06	pCi/L							01/10/11 08:55
Thorium 230 MDC		0.09	pCi/L							U
Thorium 230 precision (±)		0.06	pCi/L							

Qualifiers:

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QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Client: Powertech USA Inc

Report Date: 02/01/11

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Analytical Run: SUB-T38341		
Sample ID: STD-PB-210-0060	3	Continuing Calibration Verification Standard								01/03/11 01:52
Lead 210		32	pCi/L	100		70	130	0.0	30	
Lead 210 precision (±)		1.2	pCi/L			0	0			
Lead 210 MDC		1.4	pCi/L			0	0			
Method: E909.0								Batch: T_PB-210-0060		
Sample ID: MB-PB-210-0060	3	Method Blank					Run: SUB-T38341			01/03/11 04:03
Lead 210		-0.7	pCi/L							U
Lead 210 precision (±)		0.8	pCi/L							
Lead 210 MDC		1	pCi/L							
Sample ID: LCS-PB-210-0060		Laboratory Control Sample					Run: SUB-T38341			01/03/11 06:15
Lead 210		40	pCi/L	75		70	130			
Sample ID: R10120179-001H		Sample Matrix Spike					Run: SUB-T38341			01/03/11 17:12
Lead 210		89	pCi/L	82		70	130			
Sample ID: R10120179-001H		Sample Matrix Spike Duplicate					Run: SUB-T38341			01/03/11 19:23
Lead 210		79	pCi/L	74		70	130	11	16.4	
Method: E909.0								Batch: T_PB-210-0061		
Sample ID: MB-12991	3	Method Blank					Run: SUB-T38403			01/06/11 13:11
Lead 210			pCi/L							U
Lead 210 precision (±)		7	pCi/L							
Lead 210 MDC		10	pCi/L							
Sample ID: LCS-12991		Laboratory Control Sample					Run: SUB-T38403			01/06/11 15:22
Lead 210		480	pCi/L	89		70	130			
Sample ID: R10120179-001I		Sample Matrix Spike					Run: SUB-T38403			01/06/11 19:45
Lead 210		120	pCi/L	83		70	130			
Sample ID: R10120179-001I		Sample Matrix Spike Duplicate					Run: SUB-T38403			01/06/11 21:56
Lead 210		120	pCi/L	89		70	130	5.7	15.3	

Qualifiers:

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QA/QC Summary Report

Prepared by Rapid City, SD Branch

Revised Date: 02/14/11

Report Date: 02/01/11

Client: Powertech USA Inc

Project: Dewey Groundwater Sampling

Work Order: R10120179

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0								Batch: C_PO210-0335		
Sample ID: MB-PO210-0335		3 Method Blank				Run: SUB-C141523		01/05/11 11:54		
Polonium 210		0.3	pCi/L							U
Polonium 210 MDC		0.6	pCi/L							
Polonium 210 precision (±)		0.4	pCi/L							
Sample ID: C10120734-007FMSD		Sample Matrix Spike Duplicate				Run: SUB-C141523		01/05/11 11:54		
Polonium 210		26	pCi/L	80		70	130	20	60.9	
Sample ID: LCS-PO210-0335		Laboratory Control Sample				Run: SUB-C141523		01/05/11 11:54		
Polonium 210		16	pCi/L	99		70	130			
Sample ID: C10120734-007FMS		Sample Matrix Spike				Run: SUB-C141523		01/05/11 11:54		
Polonium 210		31	pCi/L	98		70	130			
Method: E912.0								Batch: C_R142293		
Sample ID: R10120179-002I		Sample Matrix Spike Duplicate				Run: SUB-C142293		01/30/11 12:31		
Polonium 210		42	pCi/L	110		70	130	9.4	61.7	
Sample ID: R10120179-002I		Sample Matrix Spike				Run: SUB-C142293		01/30/11 12:31		
Polonium 210		46	pCi/L	121		70	130			
Sample ID: MB-28543		3 Method Blank				Run: SUB-C142293		01/30/11 12:31		
Polonium 210		-0.03	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		3	pCi/L							
Sample ID: LCS-28543		Laboratory Control Sample				Run: SUB-C142293		01/30/11 12:31		
Polonium 210		64	pCi/L	84		70	130			

Qualifiers:

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CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

Page ____ of ____

PLEASE PRINT (Provide as much information as possible.)

Company Name: Scott Env. / Power Tech		Project Name, PWS, Permit, Etc.: Power Tech Drury Parkway		Sample Origin State: <input type="checkbox"/> Yes <input type="checkbox"/> No	EPA/State Compliance: <input type="checkbox"/> Yes <input type="checkbox"/> No
Report Mail Address: Scott Env. / Power Tech		Contact Name: Allan Scott		Sampler: (Please Print)	
Invoice Address: Power Tech		Invoice Contact & Phone:		Purchase Order:	
Special Report/Formats:		Number of Containers		Quoter/Bottle Order:	
<input type="checkbox"/> DW <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Sample Type: A W S V B O DW Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.):		Collection Date:	Collection Time:	ANALYSIS REQUESTED	
1 08-09-21-01		12-14-10		SEE ATTACHED Standard Turnaround (TAT) R U S H Contact EOI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:	
2 08-09-21-02		12-14-10	11		
3					
4					
5					
6					
7					
8					
9					
10					
Custody Record MUST be Signed		Relinquished by (print): Allan Scott	Date/Time: 12-15-10 10:00	Signature: [Signature]	Received by (print): [Signature]
Sample Disposal: Return to Client:		Lab Disposal:	Date/Time:	Signature:	Date/Time:

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LABORATORY USE ONLY
R10120179-001
002

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.