DuPont Pompton Lakes Works
2000 Cannonball Road
Pompton Lakes, NJ 07442

The miracles of science

October 13, 2010

Mr. Clifford Ng
USEPA Region II
290 Broadway, 22nd Floor
New York, NY 10007-1866

RE: Results of Soil Sampling Below Pompton Dam

Dear Mr. Ng:

At the request of the USEPA/NJDEP, DuPont agreed to collect samples along the Ramapo River to evaluate whether sediment from the Acid Brook Delta (ABD) area was being transported downstream as a result of recent flood events and deposited in overbank areas below the Pompton Dam. A field reconnaissance was conducted in an area that is commonly inundated during high water events immediately below the Pompton Dam to identify areas of potential deposition which would yield adequate data to meet the project objective.

A total of five areas were identified where recent fluvial deposits of soil material were observed. This material was characterized by the field geologist using the Unified Soil Classification System as a light brown fine grained silt and sand mixture (ML). Deposits varied in thicknesses with depths ranging from 0.75 to 1.75 feet. Based on field observations, these areas were selected for sampling and analysis of lead and mercury; which are the primary site-related constituents detected in the sediments within the ABD area.

Each area was labeled with a unique sample identification number and located using a global positioning system measuring device. The samples were collected on September 8, 2010 using the following procedure:

1. A clean trowel was used to expose a cross-sectional surface through the mid-point of the deposit.
2. Soil material was collected from along the entire vertical length of the newly exposed surface into a dedicated sample container.
3. The soil material was mixed to ensure complete homogenization of the sample.
4. An aliquot of the material was put into laboratory supplied containers and sealed.
5. Chain of custody forms were completed and samples were shipped to a certified laboratory for analysis.

Laboratory results are provided in Attachment 1. A summary of the analysis is provided in the table below and shown in the figure provided as Attachment 2.

Sample ID:			POM-E-537-991 (0.0 - 0.75)	POM-E-537-992 (0.0 - 1.5)	POM-E-537-993 (0.0 - 1.75)	POM-E-537-994 (0.0 - 1.25)	POM-E-537-994 (0.0 - 1.25) DUP	POM-E-537-995 (0.0 - 1.0)
Date:			9/8/10	9/8/10	9/8/10	9/8/10	9/8/10	9/8/10
Analyte	Units	NJ RDC SRS						
LEAD	mg/kg	400	8.31	3.86	5.70	9.99	13.3	80.0
MERCURY	mg/kg	23	ND (0.0111)	ND (0.0114)	1.39	0.0141 J	0.0158 J	0.509
PERCENT MOISTURE	%	--	3.3	2.7	3.2	3.7	3.8	30.7

Notes:

DUP= Duplicate sample
ND () = undetected at the specified method detection limit.
J = Estimated value-result is between the Method Detection Limit and Limit of Quantitation.
mg/kg= milligrams per kilogram
NJ RDC SRS= New Jersey Residential Direct Contact Soil Remediation Standards.
-- = No Criteria

An evaluation of the results shows that lead and mercury concentrations for all the samples were below the New Jersey Residential Direct Contact Soil Remediation Standards. Given these results it does not appear that material from the ABD area is being transported below the Pompton Dam. Should you have any questions, please feel free to contact me at (973) 492-7733.

Sincerely,

David E Epps

David E. Epps, P.G.
Project Director, Pompton Lakes Works
DuPont Corporate Remediation Group

cc: Frank Faranca, NJDEP
Borough of Pompton Lakes
Office of Congressman Bill Pascrell
PLW Central File

ATTACHMENT 1

LABORATORY ANALYTICAL RESULTS

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

September 27, 2010

Project: POM - ABD RAMAPO SEDIMENT BELOW DAM

Submittal Date: 09/09/2010
Group Number: 1211021
SDG: PAB01
PO Number: LBIO-66380
Release Number: LA30436
State of Sample Origin: NJ

Client Sample Description	Lancaster Labs (LLI) #
POM-E-537-991(0.0-0.75) Grab Sediment Sample	6080254
POM-E-537-992(0.0-1.5) Grab Sediment Sample	6080255
POM-E-537-993(0.0-1.75) Grab Sediment Sample	6080256
POM-E-537-994(0.0-1.25) Unspiked Grab Sediment	6080257
POM-E-537-994(0.0-1.25)-MS Matrix Spike Grab	6080258
POM-E-537-994(0.0-1.25)-MSD Matrix Spike Dup Grab	6080259
POM-E-537-994(0.0-1.25) Duplicate Grab	6080260
POM-E-537-995(0.0-1.0) Grab Sediment Sample	6080261
POM-E-537-994(0.0-1.25)-DUP Grab Sediment Sample	6080262
POM-K-EQBLK Blank Water Sample	6080263

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO LLI Attn: EDD Group
1 COPY TO Data Package Group

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Questions? Contact your Client Services Representative
Nancy J Bornholm at (717) 656-2300 Ext. 1310

Respectfully Submitted,

Max E. Snavely
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: POM-E-537-991(0.0-0.75) Grab Sediment Sample
ABD RAMAPO SEDIMENT BELOW DAM

LLI Sample # SW 6080254
LLI Group # 1211021
Account # 07032

Project Name: POM - ABD RAMAPO SEDIMENT BELOW DAM

Collected: 09/08/2010 11:15 by DY

Submitted: 09/09/2010 09:15
Reported: 09/27/2010 11:56
Discard: 10/28/2010

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PO991 SDG#: PAB01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.31	0.0105	0.203	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	N.D.	0.0111	0.0964	1
Wet Chemistry	**SM20 2540 G**		**%**	**%**	**%**	
00111	Moisture	n.a.	3.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	102646150001A	09/22/2010 11:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	102525711002	09/10/2010 20:23	Nelli S Markaryan	1
06150	ICP/MS SW-846 Solid Digest	SW-846 3050B	1	102646150001	09/21/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	102525711002	09/10/2010 00:25	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	10253820002B	09/10/2010 16:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: POM-E-537-992(0.0-1.5) Grab Sediment Sample
ABD RAMAPO SEDIMENT BELOW DAM

LLI Sample # SW 6080255
LLI Group # 1211021
Account # 07032

Project Name: POM - ABD RAMAPO SEDIMENT BELOW DAM

Collected: 09/08/2010 12:11 by DY

Submitted: 09/09/2010 09:15
Reported: 09/27/2010 11:56
Discard: 10/28/2010

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PO992 SDG#: PAB01-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	3.86	0.0104	0.200	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	N.D.	0.0114	0.0997	1
Wet Chemistry	**SM20 2540 G**		**%**	**%**	**%**	
00111	Moisture	n.a.	2.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	102646150001A	09/22/2010 11:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	102525711002	09/10/2010 20:24	Nelli S Markaryan	1
06150	ICP/MS SW-846 Solid Digest	SW-846 3050B	1	102646150001	09/21/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	102525711002	09/10/2010 00:25	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	10253820002B	09/10/2010 16:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: POM-E-537-993(0.0-1.75) Grab Sediment Sample
ABD RAMAPO SEDIMENT BELOW DAM

LLI Sample # SW 6080256
LLI Group # 1211021
Account # 07032

Project Name: POM - ABD RAMAPO SEDIMENT BELOW DAM

Collected: 09/08/2010 12:40 by DY

Submitted: 09/09/2010 09:15
Reported: 09/27/2010 11:56
Discard: 10/28/2010

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PO993 SDG#: PAB01-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	5.70	0.0105	0.203	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	1.39	0.0575	0.501	5
Wet Chemistry	**SM20 2540 G**		**%**	**%**	**%**	
00111	Moisture	n.a.	3.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	102646150001A	09/22/2010 11:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	102525711002	09/10/2010 20:39	Nelli S Markaryan	5
06150	ICP/MS SW-846 Solid Digest	SW-846 3050B	1	102646150001	09/21/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	102525711002	09/10/2010 00:25	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	10253820002B	09/10/2010 16:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: POM-E-537-994(0.0-1.25) Unspiked Grab Sediment Sample
ABD RAMAPO SEDIMENT BELOW DAM

LLI Sample # SW 6080257
LLI Group # 1211021
Account # 07032

Project Name: POM - ABD RAMAPO SEDIMENT BELOW DAM

Collected: 09/08/2010 13:10 by DY

Submitted: 09/09/2010 09:15
Reported: 09/27/2010 11:56
Discard: 10/28/2010

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PO994 SDG#: PAB01-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	9.99	0.0108	0.208	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0141 J	0.0114	0.0993	1
Wet Chemistry	**SM20 2540 G**		**%**	**%**	**%**	
00111	Moisture	n.a.	3.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	102646150001A	09/22/2010 11:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	102525711002	09/10/2010 20:29	Nelli S Markaryan	1
06150	ICP/MS SW-846 Solid Digest	SW-846 3050B	1	102646150001	09/21/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	102525711002	09/10/2010 00:25	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	10253820002B	09/10/2010 16:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: **POM-E-537-994(0.0-1.25)-MS Matrix Spike Grab Sediment Sample**
ABD RAMAPO SEDIMENT BELOW DAM

LLI Sample # SW 6080258
LLI Group # 1211021
Account # 07032

Project Name: POM - ABD RAMAPO SEDIMENT BELOW DAM

Collected: 09/08/2010 13:10 by DY

Submitted: 09/09/2010 09:15
Reported: 09/27/2010 11:56
Discard: 10/28/2010

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PO994 SDG#: PAB01-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	12.9	0.0108	0.208	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.189	0.0116	0.101	1
Wet Chemistry	**SM20 2540 G**		**%**	**%**	**%**	
00118	Moisture	n.a.	3.7	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	102646150001A	09/22/2010 11:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	102525711002	09/10/2010 20:32	Nelli S Markaryan	1
06150	ICP/MS SW-846 Solid Digest	SW-846 3050B	1	102646150001	09/21/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	102525711002	09/10/2010 00:25	Annamaria Stipkovits	1
00118	Moisture	SM20 2540 G	1	10253820002B	09/10/2010 16:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: **POM-E-537-994(0.0-1.25)-MSD Matrix Spike Dup Grab Sediment Sample**
ABD RAMAPO SEDIMENT BELOW DAM

LLI Sample # SW 6080259
LLI Group # 1211021
Account # 07032

Project Name: POM - ABD RAMAPO SEDIMENT BELOW DAM

Collected: 09/08/2010 13:10 by DY

Submitted: 09/09/2010 09:15
Reported: 09/27/2010 11:56
Discard: 10/28/2010

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PO994 SDG#: PAB01-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	14.5	0.0108	0.208	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.184	0.0116	0.101	1
Wet Chemistry	**SM20 2540 G**		**%**	**%**	**%**	
00118	Moisture	n.a.	3.7	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	102646150001A	09/22/2010 11:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	102525711002	09/10/2010 20:33	Nelli S Markaryan	1
06150	ICP/MS SW-846 Solid Digest	SW-846 3050B	1	102646150001	09/21/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	102525711002	09/10/2010 00:25	Annamaria Stipkovits	1
00118	Moisture	SM20 2540 G	1	10253820002B	09/10/2010 16:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: POM-E-537-994(0.0-1.25) Duplicate Grab
Sediment Sample
ABD RAMAPO SEDIMENT BELOW DAM

LLI Sample # SW 6080260
LLI Group # 1211021
Account # 07032

Project Name: POM - ABD RAMAPO SEDIMENT BELOW DAM

Collected: 09/08/2010 13:10 by DY

Submitted: 09/09/2010 09:15
Reported: 09/27/2010 11:56
Discard: 10/28/2010

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PO994 SDG#: PAB01-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	9.41	0.0108	0.208	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0195 J	0.0115	0.100	1
Wet Chemistry	**SM20 2540 G**		**%**	**%**	**%**	
00118	Moisture	n.a.	3.7	0.50	0.50	1
00121	Moisture Duplicate	n.a.	3.9	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	102646150001A	09/22/2010 11:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	102525711002	09/10/2010 20:31	Nelli S Markaryan	1
06150	ICP/MS SW-846 Solid Digest	SW-846 3050B	1	102646150001	09/21/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	102525711002	09/10/2010 00:25	Annamaria Stipkovits	1
00118	Moisture	SM20 2540 G	1	10253820002B	09/10/2010 16:35	Scott W Freisher	1
00121	Moisture Duplicate	SM20 2540 G	1	10253820002B	09/10/2010 16:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: POM-E-537-995(0.0-1.0) Grab Sediment Sample
ABD RAMAPO SEDIMENT BELOW DAM

LLI Sample # SW 6080261
LLI Group # 1211021
Account # 07032

Project Name: POM - ABD RAMAPO SEDIMENT BELOW DAM

Collected: 09/08/2010 13:45 by DY

Submitted: 09/09/2010 09:15
Reported: 09/27/2010 11:56
Discard: 10/28/2010

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PO995 SDG#: PAB01-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	80.0	0.0147	0.283	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.509	0.0158	0.138	1
Wet Chemistry	**SM20 2540 G**		**%**	**%**	**%**	
00111	Moisture	n.a.	30.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	102646150001A	09/22/2010 11:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	102525711002	09/10/2010 20:35	Nelli S Markaryan	1
06150	ICP/MS SW-846 Solid Digest	SW-846 3050B	1	102646150001	09/21/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	102525711002	09/10/2010 00:25	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	10253820002B	09/10/2010 16:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: POM-E-537-994(0.0-1.25)-DUP Grab Sediment Sample
ABD RAMAPO SEDIMENT BELOW DAM

LLI Sample # SW 6080262
LLI Group # 1211021
Account # 07032

Project Name: POM - ABD RAMAPO SEDIMENT BELOW DAM

Collected: 09/08/2010 13:10 by DY

Submitted: 09/09/2010 09:15
Reported: 09/27/2010 11:56
Discard: 10/28/2010

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

P995D SDG#: PAB01-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	13.3	0.0105	0.202	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0158 J	0.0116	0.101	1
Wet Chemistry	**SM20 2540 G**		**%**	**%**	**%**	
00111	Moisture	n.a.	3.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	102646150001A	09/22/2010 11:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	102525711002	09/10/2010 20:36	Nelli S Markaryan	1
06150	ICP/MS SW-846 Solid Digest	SW-846 3050B	1	102646150001	09/21/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	102525711002	09/10/2010 00:25	Annamaria Stipkovits	1
00111	Moisture	SM20 2540 G	1	10253820002B	09/10/2010 16:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Sample Description: POM-K-EQBLK Blank Water Sample
ABD RAMAPO SEDIMENT BELOW DAM

LLI Sample # WW 6080263
LLI Group # 1211021
Account # 07032

Project Name: POM - ABD RAMAPO SEDIMENT BELOW DAM

Collected: 09/08/2010 16:35 by DY

Submitted: 09/09/2010 09:15
Reported: 09/27/2010 11:56
Discard: 10/28/2010

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

POEQB SDG#: PAB01-07EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	
06035	Lead	7439-92-1	N.D.	0.000052	0.0010	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	102636050003A	09/23/2010 09:25	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	102535713001	09/13/2010 09:25	Damary Valentin	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	102636050003	09/20/2010 20:30	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	102535713001	09/10/2010 15:40	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

REVISED

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 1211021
Reported: 09/27/10 at 11:56 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 102525711002	Sample number(s): 6080254-6080262								
Mercury	N.D.	0.0110	0.0954	mg/kg	91		68-133		
Batch number: 102535713001	Sample number(s): 6080263								
Mercury	N.D.	0.00005 6	0.00020	mg/l	104		80-120		
Batch number: 102636050003A	Sample number(s): 6080263								
Lead	N.D.	0.00005 2	0.0010	mg/l	104		90-115		
Batch number: 102646150001A	Sample number(s): 6080254-6080262								
Lead	0.0166 J	0.0104	0.200	mg/kg	106		80-120		
Batch number: 10253820002B	Sample number(s): 6080254-6080262								
Moisture					100		99-101		
Moisture					100		99-101		
Moisture Duplicate					100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 102525711002	Sample number(s): 6080254-6080262 UNSPK: 6080257 BKG: 6080257								
Mercury	104	101	80-120	3	20	0.0135 J	0.0188 J	32* (1)	20
Batch number: 102535713001	Sample number(s): 6080263 UNSPK: P080592 BKG: P080592								
Mercury	100	96	80-120	4	20	N.D.	N.D.	0 (1)	20
Batch number: 102636050003A	Sample number(s): 6080263 UNSPK: P085555 BKG: P085555								
Lead	106	106	75-125	0	20	0.0123	0.0120	3	20
Batch number: 102646150001A	Sample number(s): 6080254-6080262 UNSPK: 6080257 BKG: 6080257								
Lead	92	143*	75-125	12	20	9.62	9.06	6	20
Batch number: 10253820002B	Sample number(s): 6080254-6080262 BKG: 6080257								
Moisture						3.7	3.9	6	15
Moisture						3.7	3.9	6	15
Moisture Duplicate						3.7	3.9	6	15

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 1211021
Reported: 09/27/10 at 11:56 AM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories Use Only
Group No.: 1211021 Sample Nos.: 6080254-63 20401
Acct: 07032 SCR No.: 95260 Cooler No.: 1
Cooler Temperature upon receipt: 1.6 °C Container No.: 1

17450

Facility Name: Pompton Lakes	Project Manager: Marj Vetter
Facility Contact: Dan Youngblood	Facility Contact Phone No.: 908-507-6618
Facility Address: Pompton Lakes Works	Job No.: 9267-7720100C-WH06-507906
2000 Cannonball Road	Release No.: LA30436
Pompton Lakes NJ 07442	PO Number: LBIO-66380
Sampler(s): Dan Youngblood, George Nameth	
Project Name: ABD RAMAPO SEDIMENT BELOW DAM	

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	Hg (7471A/7470A)	Moisture (SM20 2540 G)	Analyses Required
POM-E-537-991(0.0 - 0.75)	9/8/10	1115	SW	125	None	1	X	X	
POM-E-537-992(0.0 - 1.5)		1211	SW	125	None	1	X	X	
POM-E-537-993(0.0 - 1.75)		1240	SW	125	None	1	X	X	
POM-E-537-994(0.0 - 1.25)		1310	SW	125	None	1	X	X	
POM-E-537-995(0.0 - 1.0)		1345	SW	125	None	1	X	X	
POM-E-537-994 (0.0 - 1.25))-MS		1310	SW	125	None	1	X	X	
POM-E-537-994 (0.0 - 1.25))-MSD		1310	SW	125	None	1	X	X	
POM-E-537-994 (0.0 - 1.25))-DUP		1310	SW	125	None	1	X	X	
POM-K-EQBLK		1635	WW	500	HNO3	1	X		

Comments: 3 DAY TAT

Condition upon receipt: Intact

Turnaround Time Requested (please circle): Normal (Rush) Number of days: 3

Special Instructions: Full Deliverables needed

	Date	Time		Date	Time
Bottles Relinquished by:	9/7/10	9:30	Bottles Received by:		
Bottles Relinquished by:			Bottles Received by:	9/08/10	1040
Bottles Relinquished by:	9/8/10	1640	Bottles Received by:		
Bottles Relinquished by:			Bottles Received by:	9/9/10	915

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Lancaster Laboratories

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Pompton Lakes

Date of Receipt: 9/9/10

Time of Receipt: 915

Source Code: 501

Unpacker Emp. No.: 2316

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	9413	1.6C	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
[signature]	9/9/10	1145	Unpacking to storage
Kristin Engle	9-9-10	1222	Place in Storage or (Entry)
			Entry
			Entry

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

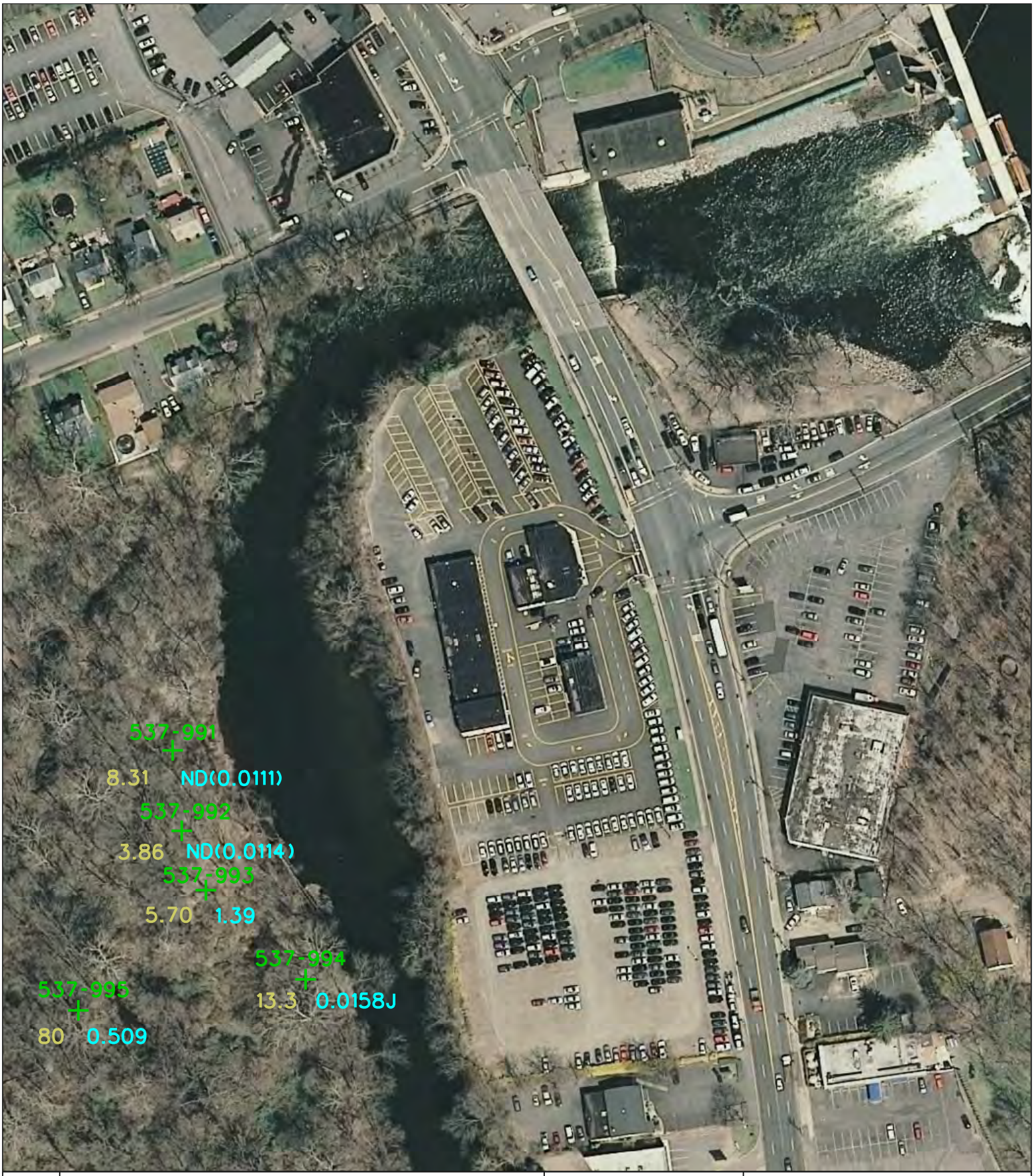
Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

ATTACHMENT 2

SAMPLE SUMMARY MAP



LEGEND:

Boring-Id

\+ — Boring Location

Lead (mg/kg) Mercury (mg/kg)

ND = Not detected at value shown
J = Estimate value below MDL
MDL = Method detection limit

SCALE: 1-inch = 130-feet
\BelowDam.dgn 30-Sep-10

PARSONS
200 Cottontail Lane
Somerset, NJ 08873

SEDIMENT SAMPLES COLLECTED BELOW THE RAMAPO RIVER DAM

DUPONT POMPTON LAKES WORKS
2000 Cannonball Road
Pompton Lakes, New Jersey

FIGURE 1