Table 5
Summary of Analytical Results and Exposure Point Concentrations for Overburden Ground Water
Galaxy/Spectron Site
Elkton, Maryland

Analyte	Distribution Type	Number of Samples	Max Detect (µg/L)	Mean (µg/L)	Standard Deviation (µg/L)	UCLn95 (µg/L)	UCLt95 (µg/L)	Does UCL Exceed Max Detect?	Exposure Point Concentration (µg/L)	Exposure Point Concentration (mg/L)
Volatile Organic Compounds										
Acetone	lognormal	18	1.20E+05	1.26E+02	2.22E+01		1.51E+06	Yes	1.20E+05	1.20E+02
Benzene	lognormal	27	1.40E+03	6.65E+01	1.73E+01		8.36E+04	Yes	1.40E+03	1.40E+00
Benzyl Chloride	lognormal	7	7.60E+00	1.59E+02	6.49E+00		1.15E+05	Yes	7.60E+00	7.60E-03
Butanone, 2-	lognormal	21	1.90E+04	2.46E+02	1.91E+01		8.77E+05	Yes	1.90E+04	1.90E+01
Chlorobenzene	lognormal	27	2.10E+04	1.09E+02	2.64E+01		1.16E+06	Yes	2.10E+04	2.10E+01
Chloroethane	lognormal	27	4.20E+03	9.62E+01	2.46E+01		6.99E+05	Yes	4.20E+03	4.20E+00
Chloroform	lognormal	27	2.40E+03	5.07E+01	2.52E+01		4.58E+05	Yes	2.40E+03	2.40E+00
Dichloroethane, 1,1-	lognormal	27	3.80E+04	4.06E+02	3.04E+01		9.69E+06	Yes	3.80E+04	3.80E+01
Dichloroethane, 1,2-	lognormal	27	3.60E+04	8.74E+01	2.94E+01		1.75E+06	Yes	3.60E+04	3.60E+01
Dichloroethene, 1,1-	lognormal	27	8.60E+03	5.75E+01	1.78E+01		7.89E+04	Yes	8.60E+03	8.60E+00
Dichloroethene, 1,2- (total)	lognormal	12	5.20E+04	1.25E+03	3.51E+01		9.99E+07	Yes	5.20E+04	5.20E+01
Ethylbenzene	lognormal	27	4.30E+03	9.87E+01	1.88E+01		1.78E+05	Yes	4.30E+03	4.30E+00
Methylene Chloride	lognormal	6	7.40E+05	4.33E+02	1.28E+02		1.70E+19	Yes	7.40E+05	7.40E+02
Methyl-2-Pentanone, 4-	lognormal	27	1.80E+04	8.39E+01	1.96E+01		1.84E+05	Yes	1.80E+04	1.80E+01
Tetrachloroethane, 1,1,2,2-	lognormal	27	1.65E+03	5.54E+01	1.98E+01		1.28E+05	Yes	1.65E+03	1.65E+00
Tetrachloroethene	lognormal	27	2.65E+04	1.18E+02	2.51E+01		9.76E+05	Yes	2.65E+04	2.65E+01
Toluene	lognormal	27	3.60E+04	2.37E+02	4.53E+01		6.62E+07	Yes	3.60E+04	3.60E+01
Trichloroethane, 1,1,1-	lognormal	27	8.30E+04	1.08E+03	4.22E+01		1.93E+08	Yes	8.30E+04	8.30E+01
Trichloroethane, 1,1,2-	lognormal	27	1.80E+02	4.86E+01	2.06E+01		1.38E+05	Yes	1.80E+02	1.80E-01
Trichloroethene	lognormal	27	8.00E+03	1.32E+02	2.23E+01		5.67E+05	Yes	8.00E+03	8.00E+00
Trichloro-1,2,2-trifluoroethane, 1,1,2-	lognormal	4	1.10E+04	1.16E+03	6.24E+00		2.03E+09	Yes	1.10E+04	1.10E+01
Vinyl Chloride	lognormal	27	1.40E+04	2.26E+02	2.92E+01		4.35E+06	Yes	1.40E+04	1.40E+01
Xylene (total)	lognormal	27	1.82E+04	2.02E+02	3.22E+01		6.78E+06	Yes	1.82E+04	1.82E+01
Semivolatile Organic Compounds										

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bis (2-Chloroethyl) ether	lognormal	8	2.90E+02	3.20E+01	5.30E+00		3.42E+03	Yes	2.90E+02	1.59E-01
Chloroaniline, 4-	lognormal	8	9.90E+03	4.17E+01	1.44E+01		4.76E+06	Yes	9.90E+03	9.90E+00
Chlorophenol, 2-	lognormal	8	3.40E+01	1.72E+01	4.56E+00		8.48E+02	Yes	3.40E+01	3.40E-02
Dichlorobenzene, 1,2-	lognormal	14	2.50E+04	2.46E+02	1.31E+01		2.76E+05	Yes	2.50E+04	2.50E+01
Dichlorobenzene, 1,3-	lognormal	9	2.70E+01	3.96E+01	1.73E+01		4.84E+16	Yes	2.70E+01	2.70E-02
Dichlorobenzene, 1,4-	lognormal	12	3.30E+03	4.34E+01	1.81E+01		3.99E+05	Yes	3.30E+03	3.30E+00
Methylnaphthalene, 2-	lognormal	8	3.60E+01	4.13E+01	4.38E+00		1.67E+03	Yes	3.60E+01	3.60E-02
Methylphenol, 4-	lognormal	8	8.70E+02	3.84E+01	9.38E+00		1.51E+05	Yes	8.70E+02	8.70E-01
Naphthalene	lognormal	8	2.80E+01	4.13E+01	3.37E+00		7.97E+02	Yes	2.80E+01	2.80E-02
Trichlorobenzene, 1,2,4-	lognormal	8	8.75E+01	6.45E+01	2.15E+01	1.01E+02		Yes	8.75E+01	8.75E-02
Pesticide/PCBs										
BHC, alpha-	NORMAL	8	5.70E-02	4.42E-02	3.93E-02	7.05E-02		Yes	5.70E-02	3.70E-05
BHC, beta-	lognormal	8	2.70E-01	4.21E-02	2.60E+00		2.21E-01	No	2.21E-01	1.30E-04
BHC, delta-	lognormal	8	4.40E+00	5.96E-02	6.27E+00		1.65E+01	Yes	4.40E+00	1.26E-03
Dieldrin	NORMAL	8	9.90E-02	5.48E-02	2.94E-02	7.44E-02		No	7.44E-02	7.44E-05
Heptachlor epoxide	lognormal	8	2.60E-02	2.79E-02	2.08E+00		7.88E-02	Yes	2.60E-02	2.60E-05
Total Inorganics										
Aluminum	NORMAL	8	1.78E+05	2.31E+03	2.64E+03	4.24E+03		No	4.24E+03	1.78E+00
Antimony	lognormal	10	1.42E+02	6.90E+00	3.78E+00		3.84E+02	Yes	1.42E+02	1.42E-01
Arsenic	lognormal	8	5.80E+00	4.60E+00	4.09E+00		1.01E+02	Yes	5.80E+00	1.02E-02
Barium	lognormal	10	1.48E+03	2.14E+02	2.68E+00		1.07E+03	No	1.07E+03	8.52E-01
Beryllium		8	1.23E+01	Insufficient Data Set. EPC based on Max Detect.					1.23E+01	3.60E-03
Cadmium	lognormal	10	4.27E+01	1.45E+00	4.36E+00		2.94E+01	No	2.94E+01	2.94E-02
Chromium	lognormal	10	3.90E+02	4.93E+00	5.09E+00		1.43E+02	No	1.43E+02	3.90E-01
Cobalt	lognormal	8	4.18E+02	5.37E+01	4.38E+00		6.49E+05	Yes	4.18E+02	3.19E-01

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Copper	lognormal	10	1.28E+03	4.57E+00	2.97E+01		4.17E+11	Yes	1.28E+03	1.28E+00
Iron	lognormal	15	4.91E+05	2.25E+04	1.14E+01		1.22E+07	Yes	4.91E+05	4.91E+02
Lead	lognormal	9	1.32E+03							2.00E-01
Manganese	lognormal	17	1.88E+04	1.57E+03	3.29E+00		7.73E+03	No	7.73E+03	7.73E+00
Nickel	lognormal	10	1.03E+03	1.85E+01	2.60E+00		6.59E+01	No	6.59E+01	6.48E-01
Vanadium	lognormal	10	4.38E+02	1.68E+00	5.16E+00		5.16E+01	No	4.38E+02	4.38E-01
Zinc	lognormal	7	2.88E+03	2.15E+02	1.90E+01		3.01E+08	Yes	2.88E+03	2.40E+00