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ENVIRONMENTAL
ASSESSMENT &
REMIEDIATIONS

March 16, 2016

Lawrence Thomas
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th floor
Albany, NY 12233-7015

RE: Site No. 152029 - Spectrum Finishing, 50 Dale Street, West Babylon, 11704 – February 2016 Groundwater Sampling Event

Mr. Thomas:

This letter summarizes the recent activities conducted by Environmental Assessment & Remediations (EAR) at the above referenced site. A summary of actions, findings and supporting graphics are provided in this document. Site activities were conducted in February 2016 in response to amendment directives provided in the New York State Department of Environmental Conservation (NYSDEC) Standby Contractor Authorization Form (Callout ID: 122036). The callout required that a site inspection be performed and groundwater samples be collected from the twenty-one (21) site monitoring wells. A site location map has been included as Figure 1.

Site Inspection

A site inspection was conducted on February 4, 2016. EAR performed an inspection, as requested, to evaluate monitoring well locations, accessibility and note, if any, depth discrepancies. Based upon visual observations, there is the existing concrete pad at 50 Dale Street with no indication of recent excavation on the property or restricted areas. Weather conditions and plow activities have not resulted in any subsurface soil disturbance. Notification of sampling activities was provided to other businesses in the vicinity with monitoring wells on their property.

As requested, well casings and manhole conditions were inspected; with no major issues of concern observed.



Groundwater Water Monitoring Tasks

Between February 4-10, 2016, EAR collected groundwater samples from nineteen (19) monitoring wells (MW-1S, MW-1D1, MW-2S, MW-2D, MW-4S, MW-4D, MW-5D1, MW-6S, MW-6D1, MW-7S, MW-7D1, MW-9S, MW-11S, MW-12S, MW-12D1, MW-14S, MW-14D1, MW-16S, & MW-16D1). Total well depths were consistent with prior well gauging events and no significant discrepancies in depths were reported. MW-3S and MW-3D manhole cluster could not be located; as such no field screening or samples were collected. Monitoring well locations are illustrated in Figure 2.

Prior to sample collection, depth-to-water and total well depths were gauged and recorded. Groundwater samples were collected utilizing an inertia pump and HDPE tubing. A new length of HDPE tubing was utilized at each well. Each monitoring well was purged of at least one standing well volume prior to screening for pH, temperature, and conductivity. A multi-parameter probe with flow through cell was utilized to determine stabilization. Dissolved oxygen concentrations, and Oxidation Reduction Potential (ORP) were recorded as well. Groundwater sampling sheets have been included in Appendix A.

Samples collected for lab analysis were placed into the appropriate sample containers provided by the laboratory and immediately placed in a cooler with ice to maintain a temperature of 4 degrees Celsius. A total of 19 water samples were submitted to a NYSDEC standby contracted laboratory (Test America, Inc.) for analysis of TCL VOCs via EPA Method 8260C and TAL Metals via EPA Methods 6010C/7470A. All samples were submitted for standard 30-day turn around with Category A deliverables requested. As part of QA/QC, a blind duplicate was submitted for TCL VOCs analysis via EPA Method 8260C.

Monitor well gauging and field screening results are provided in Table 1. Analytical results are summarized for TCL VOCs in Table 2 and for TAL Metals in Table 3. The results are compared to the TOGS 1.1.1 Class GA water quality standards and guidance values¹. A site location map with posted values for cadmium, total chromium, iron, tetrachloroethene and trichloroethylene are provided in the Figures 3 through 7.

The EDD files have been submitted to NYENVDATA. Lab reports are included as Appendix B. Quality assurance/quality control (QA/QC) sample summary tables are provided as Appendix C.

¹ NYSDEC Division of Water Technical & Operational Guidance Series 1.1.1 – Ambient Water Quality Standards and Guidance Values, Class GA (groundwater)



Summary of Analytical Results

Analysis of the groundwater samples collected, indicate the presence of six (6) VOC analytes. None of the VOC analytes detected were reported in concentrations exceeding their respective TOGS 1.1.1 Class GA water quality standards or guidance value limits. Analytical results for mercury concentrations were reported as being below the lower reporting limit (LRL). Of the TAL Metals analytes detected, most notably, cadmium, total chromium and nickel were reported in concentrations exceeding their respective water quality standards/guidance values. Maximum reported concentrations for metals contaminants are summarized below:

Parameter	Maximum Observed Concentration	Sampling Location
Cadmium	134 (ug/L)	MW-12S
Chromium (total)	82.5 (ug/L)	MW-12D1
Nickel	107 (ug/L)	MW-12S

Should you have any questions regarding the activities or data detailed in this report, please feel free to contact me at 631.447.6400.ext.159.

Regards,

Pat Benedetto
Project Manager

Cc:
J. Lawrence (EAR)



TABLES

Table 1: Groundwater Evaluation Results (EAR Monitoring Well Gauging and Screening)

Table 2: Groundwater Analytical Results (EPA Method 8260C)

Table 3: Groundwater Analytical Results (EPA Methods 6010C/7470A)

Spectrum Finishing

Site #152029

50 Dale Street

West Babylon, NY 11704



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Monitoring Well Gauging and Groundwater Field Screening* Results

Well ID	Date	Historical TWD (ft)	Recorded TWD (ft)	Recorded DTW (ft)	Dissolved Oxygen (mg/L)	Temperature (°C)	pH	ORP (mV)	Conductivity (uS/m)
MW-01S	02/10/16	25.0	24.85	21.25	0.78	14.24	5.78	27.2	358
MW-01D1	02/10/16	49.6	49.77	21.26	0.92	14.20	5.69	34.4	722
MW-02S	02/09/16	24.1	24.27	21.62	1.56	14.02	5.84	216.7	214
MW-02D	02/09/16	48.6	48.78	21.59	1.66	13.82	5.37	260.9	264
MW-03S ¹	-	23.6	-	-	-	-	-	-	-
MW-03D ¹	-	48.8	-	-	-	-	-	-	-
MW-04S	02/09/16	23.7	23.10	20.46	1.47	12.12	6.05	195.5	101
MW-04D	02/09/16	48.8	48.46	20.49	1.65	13.84	5.41	246.6	303
MW-05D1	02/09/16	50.0	50.25	20.93	0.90	14.04	5.45	215.9	345
MW-06S	02/09/16	27.0	26.55	20.15	3.82	13.31	6.05	179.1	189
MW-06D1	02/09/16	50.0	49.20	20.15	6.23	13.83	5.68	205.8	198
MW-07S	02/10/16	28.0	26.42	21.22	0.67	14.32	5.91	225.4	625
MW-07D1	02/10/16	50.0	49.80	21.42	0.85	14.17	5.72	232.2	428
MW-09S	02/10/16	27.0	23.60	21.88	1.33	14.10	5.63	125.8	542
MW-11S	02/09/16	25.7	25.85	21.13	8.74	9.66	6.75	110.8	719
MW-12S	02/04/16	27.0	27.25	21.21	0.56	14.55	5.81	214.2	224
MW-12D1	02/04/16	49.5	49.75	21.15	1.24	14.43	5.44	255.6	280
MW-14S	02/04/16	23.8	24.15	20.75	0.96	14.38	5.86	207.2	225
MW-14D1	02/04/16	49.5	49.90	20.88	1.51	14.22	5.59	226.9	232
MW-16S	02/09/16	-	49.85	14.89	5.35	13.48	6.02	184.2	189
MW-16D1	02/09/16	-	89.75	14.78	6.73	13.07	5.68	213.9	211

*-screening performed with a multi-parameter probe utilizing a flow-through cell

¹-well could not be located/inaccessible

TWD - total well depth

DTW - depth to water

TABLE 1



Groundwater Analytical Results (ug/L)

TestAmerica, Inc.

EPA Method SW8260C(VOCs)

Location	Date Collected	1,1,1-Trichloroethane	Chloroform	cis-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	Total VOCs	Trichloroethylene
MW-1D1	2/10/2016	<1	<1	<1	<1	<1	<22	<1
MW-1S	2/10/2016	<1	0.26 J	<1	<1	<1	0.26	<1
MW-2D	2/9/2016	<1	<1	<1	<1	1.2	1	<1
MW-2S	2/9/2016	<1	<1	<1	2.1	3.6	6	<1
MW-4D	2/9/2016	<1	<1	<1	<1	0.50 J	0.77	0.27 J
MW-4S	2/9/2016	<1	<1	<1	<1	0.21 J	0.21	<1
MW-5D1	2/9/2016	<1	<1	<1	<1	3.4	3	<1
MW-6D1	2/9/2016	<1	<1	<1	<1	0.47 J	0.79	0.32 J
MW-6S	2/9/2016	<1	<1	<1	<1	3.1	3	0.23 J
MW-7D1	2/10/2016	<1	<1	0.27 J	<1	2.5	3	<1
MW-7S	2/10/2016	<1	<1	<1	<1	<1	<22	<1
MW-9S	2/10/2016	<1	<1	<1	<1	3	3	<1
MW-11S	2/9/2016	<1	<1	<1	<1	<1	<22	<1
MW-12D1	2/4/2016	<1	<1	<1	<1	0.50 J	0.5	<1
MW-12S	2/4/2016	<1	<1	<1	<1	1.2	1	<1
MW-14D1	2/4/2016	<1	<1	<1	<1	<1	<22	<1
MW-14S	2/4/2016	0.34 J	<1	<1	<1	0.76 J	1	<1
MW-16D1	2/9/2016	1.2	<1	<1	<1	0.27 J	3	1.2
MW-16S	2/9/2016	<1	<1	<1	<1	0.70 J	0.7	<1
NYSDEC_TOGS111 ^a _ClassGA_Standard		5	7	5	5	5	n/a	5
NYSDEC_TOGS111 ^a _ClassGA_Guidance		n/a	n/a	n/a	n/a	n/a	n/a	n/a

Note:

^aNYSDEC Division of Water Technical and Operational Guidance Series (1.1.1), June 1998

J - estimated value

n/a - analyzed chemicals with no established values in TOGS 1.1.1

Total VOCs - the sum of concentrations above the lower reporting limit

The chemicals listed below were reported below the lower reporting limit(LRL):

- | | | |
|---------------------------|-----------------------|--------------------------|
| 1,1 Dichloroethane | Bromodichloromethane | Dibromochloromethane |
| 1,1 Dichloroethene | c 1,3 Dichloropropene | t 1,3 Dichloropropene |
| 1,1,2 Trichloroethane | Carbon Tetrachloride | trans-1,2-Dichloroethene |
| 1,1,2,2 Tetrachloroethane | Chlorobenzene | Vinyl Chloride |
| 1,2 Dichloroethane | Chloroethane | Xylenes Total |
| 1,2 Dichloropropane | Chloromethane | |

TABLE 2

Groundwater Analytical Results (ug/L)

TestAmerica, Inc.

EPA Methods SW6010C(Metals), SW7470A(Mercury)

Location	Date	Aluminum	Barium	Cadmium	Calcium	Chromium (total)	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Sodium	Zinc
MW-1D1	2/10/2016	<200	46.70 J	<4	11,200	<10	<25	<150	<10	2,580 J	<15	<40	2,630 J	15,800	<30
MW-1S	2/10/2016	74.40 J	15.90 J	<4	15,500	<10	<25	<150	<10	1,750 J	11.20 J	<40	4,060 J	9,500	6 J
MW-2D	2/9/2016	<200	76.50 J	<4	15,500	<10	<25	65.40 J	<10	2,710 J	20	<40	3,860 J	26,500	<30
MW-2S	2/9/2016	75.30 J	32.20 J	<4	19,700	<10	9.20 J	<150	<10	4,030 J	<15	<40	2,470 J	11,500	6.30 J
MW-4D	2/9/2016	104 J	87.40 J	<4	14,600	8.30 J	14.60 J	96.10 J	<10	3,230 J	8.50 J	<40	3,780 J	33,400	7.80 J
MW-4S	2/9/2016	157 J	10.20 J	31.3	9,630	5.20 J	40	212	<10	1,580 J	5.80 J	10.80 J	826 J	5,480	24.60 J
MW-5D1	2/9/2016	146 J	110 J	<4	22,000	<10	<25	134 J	<10	4,470 J	34	<40	4,730 J	29,500	<30
MW-6D1	2/9/2016	<200	64.10 J	<4	12,700	<10	<25	<150	<10	3,150 J	5 J	<40	3,460 J	22,600	<30
MW-6S	2/9/2016	<200	41.90 J	119.0	18,600	19.1	<25	<150	<10	3,230 J	6 J	26.60 J	3,410 J	15,500	19.20 J
MW-7D1	2/10/2016	<200	80.50 J	<4	25,200	8 J	9.30 J	<150	<10	3,370 J	36	<40	3,870 J	24,600	<30
MW-7S	2/10/2016	114 J	92.30 J	<4	20,200	<10	6.10 J	223	<10	3,890 J	27.4	<40	4,520 J	25,200	15.30 J
MW-9S	2/10/2016	230	39.50 J	<4	19,300	<10	<25	79.10 J	<10	1,970 J	172	<40	3,070 J	18,500	72.2
MW-11S	2/9/2016	1,650	67.70 J	<4	14,100	<10	36	846	5.80 J	1,850 J	417	<40	1,900 J	147,000	28 J
MW-12D1	2/4/2016	130 J	77.10 J	13.0	17,700	82.5	27	172	<10	3,860 J	16.7	14.90 J	3,990 J	23,600	19.30 J
MW-12S	2/4/2016	443	35.80 J	134.0	19,900	12.8	8.80 J	586	<10	2,380 J	13.10 J	107	3,860 J	16,200	46.6
MW-14D1	2/4/2016	78.10 J	69.90 J	<4	16,400	<10	<25	565	<10	3,270 J	8.10 J	<40	3,630 J	18,000	<30
MW-14S	2/4/2016	103 J	40.50 J	50.4	18,600	<10	<25	<150	<10	3,180 J	<15	<40	5070	14,700	<30
MW-16D1	2/9/2016	105 J	44.30 J	<4	17,100	<10	<25	180	<10	4,630 J	8 J	<40	1,760 J	20,500	<30
MW-16S	2/9/2016	<200	41.90 J	<4	21,700	<10	<25	<150	<10	3,330 J	7.40 J	<40	2,930 J	12,800	<30
NYSDEC_TOGS111 ^a _ClassGA_Standard		n/a	1,000	5.0	n/a	50	200	300	25	n/a	300	100	n/a	20,000	n/a
NYSDEC_TOGS111 ^a _ClassGA_Guidance		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	35,000	n/a	n/a	n/a	n/a	2,000

Note:

^aNYSDEC Division of Water Technical and Operational Guidance Series (1.1.1), June 1998

 - indicates concentration in exceedance of standard/guidance value

J - estimated value

n/a - analyzed chemicals with no established values in TOGS 1.1.1

The chemicals listed below were reported below the LRL:

- Antimony
- Arsenic
- Beryllium
- Cobalt
- Mercury
- Selenium
- Silver
- Thallium
- Vanadium
- Xylenes Total

TABLE 3



FIGURES

Figure 1: Site Location Map

Figure 2: Site Map with Monitoring Well Locations.

Figure 3: Site Map with Posted Analytical Results for Cadmium.

Figure 4: Site Map with Posted Analytical Results for Chromium.

Figure 5: Site Map with Posted Analytical Results for Nickel.

Figure 6: Site Map with Posted Analytical Results for Tetrachloroethene.

Figure 7: Site Map with Posted Analytical Results for Trichloroethylene.



FIGURE 1

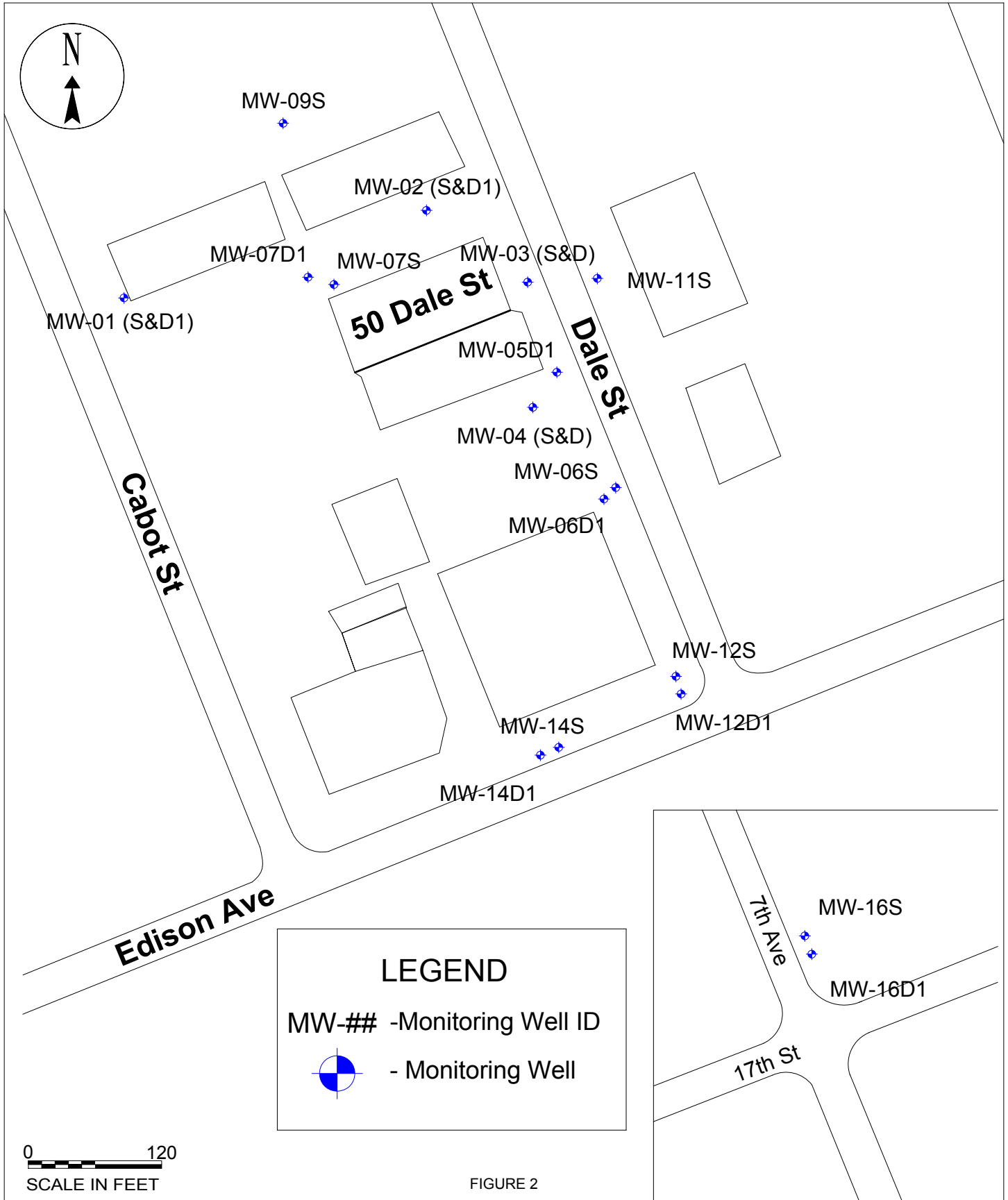
NOT TO SCALE

Site Location Map

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Patchogue, New York 11772
Tel (888) 327-6789
Fax (631) 447-7497
Email: Info@Enviro-Asmnt.com
www.Enviro-Asmnt.com

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Patchogue, New York 11772
Tel (888) 327-6789
Fax (631) 447-6497
Email Info@Enviro-Asmnt.com
WWW.Enviro-Asmnt.com

SITE MAP

DEC-WESTBABYLON50

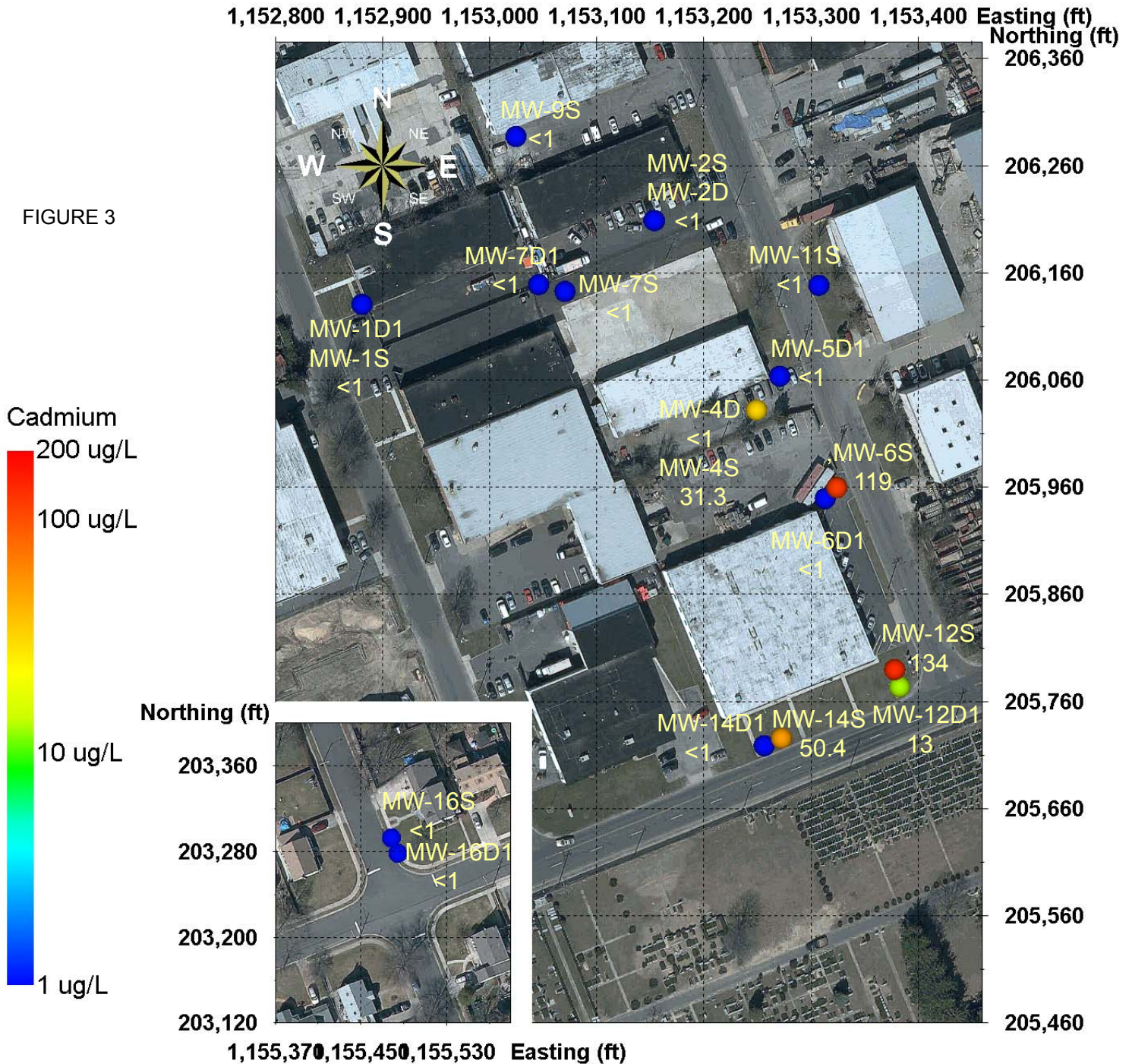
SPECTRUM FINISHING
SITE ID - 152029
50 DALE STREET
WEST BABLYON, NY



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Spectrum Finishing
50 Dale Street
West Babylon, NY 11704
NYSDEC Site #152029

February 2016 Groundwater Sampling Event
2-D Post Map Analytical Results



Concentrations reported at <RL are posted as 0.01

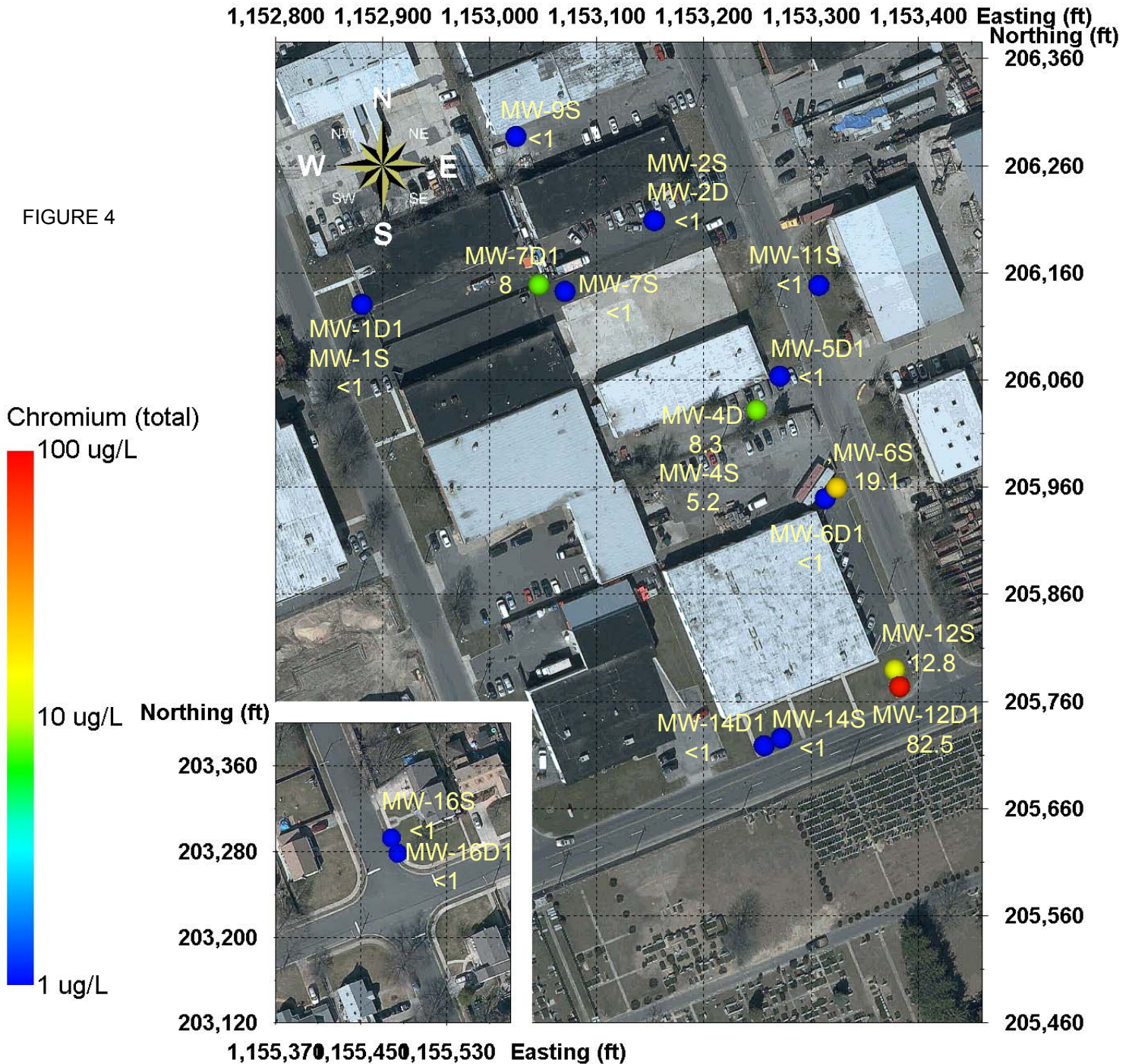


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Spectrum Finishing
50 Dale Street
West Babylon, NY 11704
NYSDEC Site #152029

February 2016 Groundwater Sampling Event
2-D Post Map Analytical Results

FIGURE 4



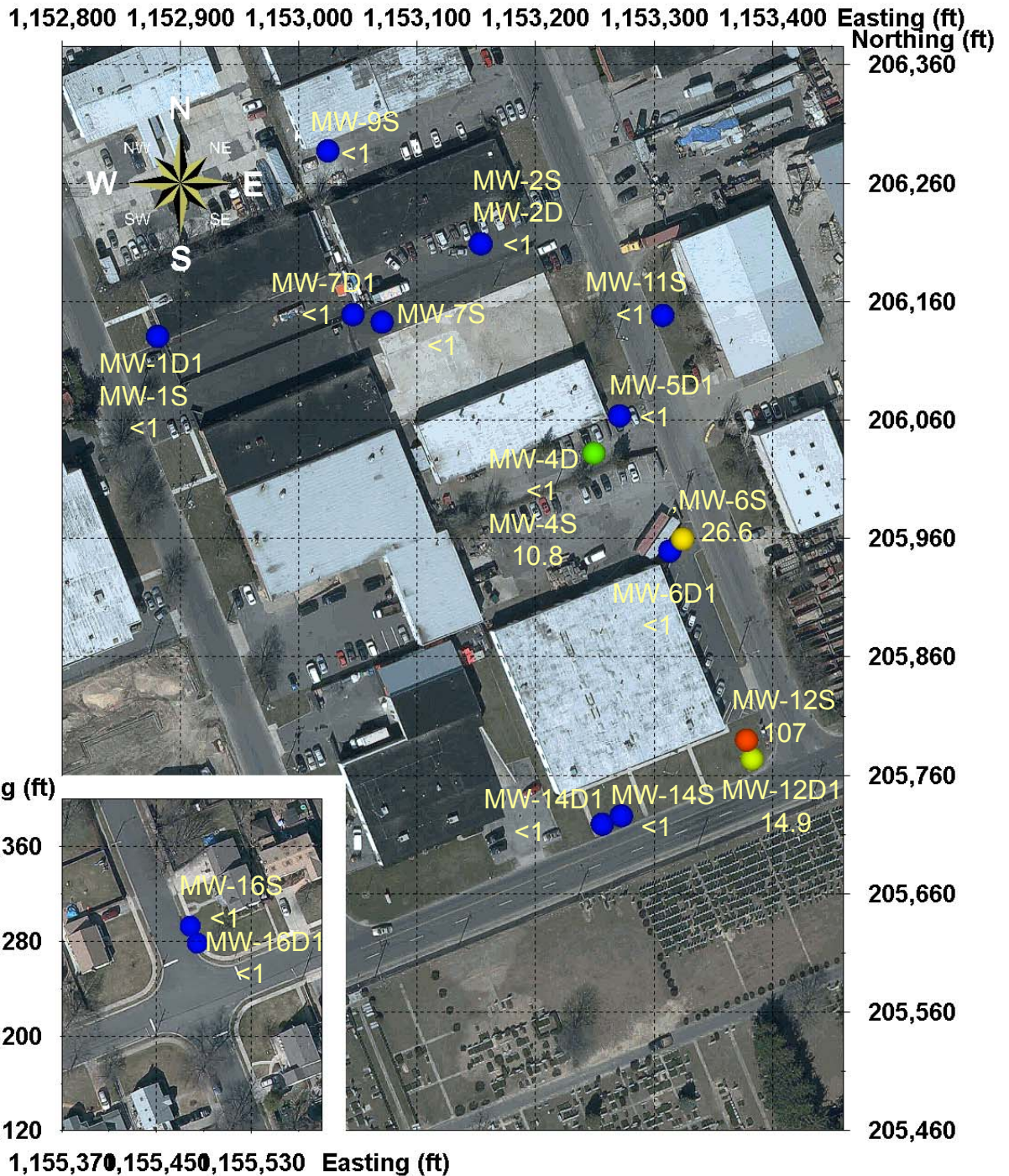
Concentrations reported at <RL are posted as 0.01



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Spectrum Finishing
50 Dale Street
West Babylon, NY 11704
NYSDEC Site #152029

February 2016 Groundwater Sampling Event
2-D Post Map Analytical Results



Concentrations reported at <RL are posted as 0.01

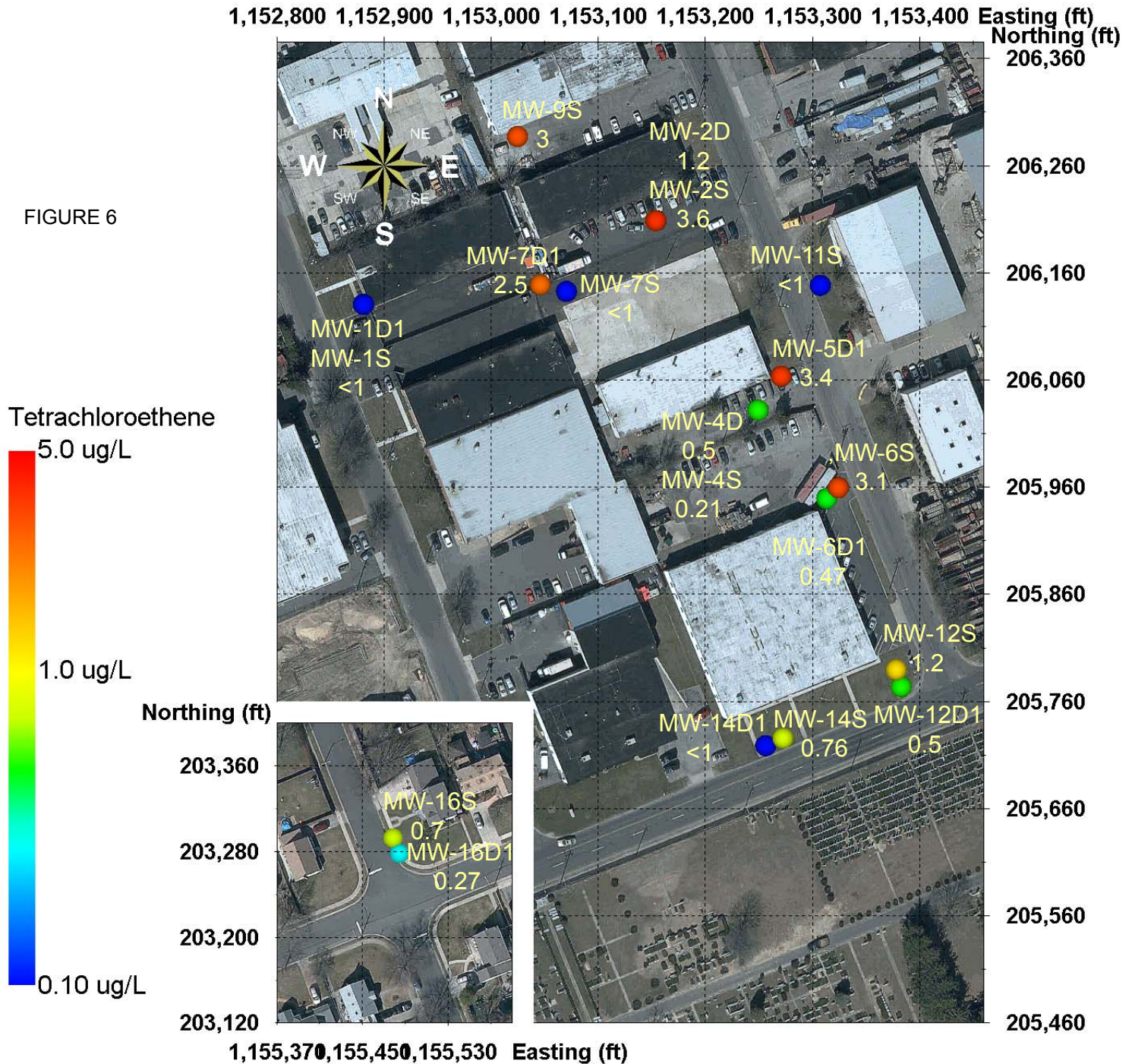


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Spectrum Finishing
50 Dale Street
West Babylon, NY 11704
NYSDEC Site #152029

February 2016 Groundwater Sampling Event
2-D Post Map Analytical Results

FIGURE 6



Concentrations reported at <RL are posted as 0.01

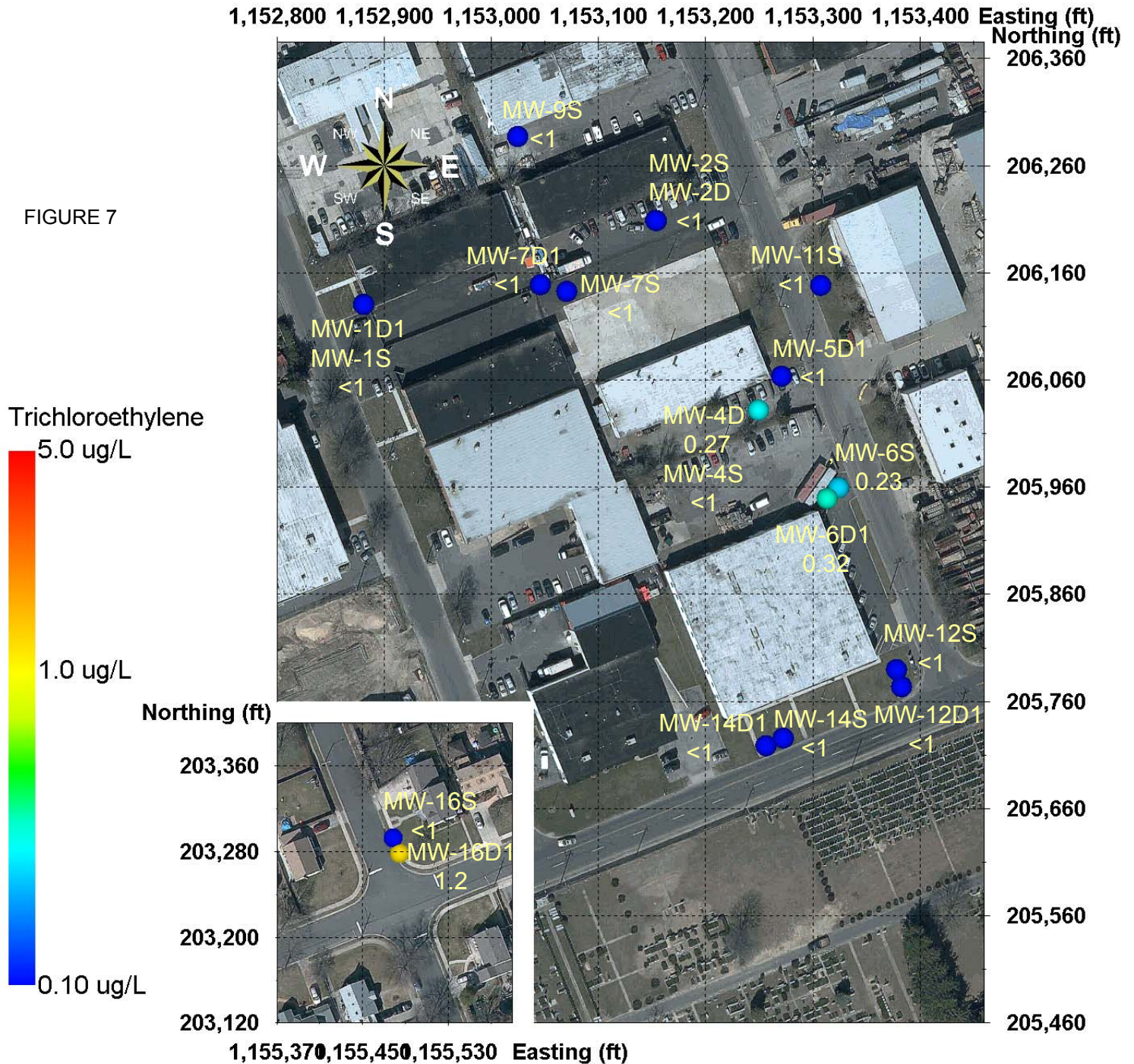


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Spectrum Finishing
50 Dale Street
West Babylon, NY 11704
NYSDEC Site #152029

February 2016 Groundwater Sampling Event
2-D Post Map Analytical Results

FIGURE 7



Concentrations reported at <RL are posted as 0.01



Appendix A: Field Notes / Field Data Sheets



Appendix B: Laboratory Analytical Reports

ANALYTICAL REPORT

Job Number: 460-108747-1

Job Description: DEC West Babylon, NY, Spectrum, 152029

For:

New York State D.E.C.

625 Broadway

12th Floor

Albany, NY 12233-7017

Attention: Mr. Lawrence M Thomas



Approved for release.
Shalini Williams
Project Management Assistant II
2/24/2016 8:43 AM

Designee for
Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
02/24/2016

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817
Tel (732) 549-3900 Fax (732) 549-3679 www.testamericainc.com



CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC West Babylon, NY, Spectrum, 152029

Report Number: 460-108747-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 2/8/2016 6:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-14D1 (460-108747-2). Sample ID is MW-14D1, but MW-14D on containers. There were no Metal containers received for sample#5 field ID MW-12X.

Thanks,
Luisa

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANICS

Samples MW-14S (460-108747-1), MW-14D1 (460-108747-2), MW-12S (460-108747-3), MW-12D1 (460-108747-4) and MW-12X (460-108747-5) were analyzed for Volatile organics in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 02/15/2016.

No difficulties were encountered during the Volatile organics analysis.

All quality control parameters were within the acceptance limits.

METALS

Samples MW-14S (460-108747-1), MW-14D1 (460-108747-2), MW-12S (460-108747-3) and MW-12D1 (460-108747-4) were analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 02/16/2016 and analyzed on 02/22/2016.

No difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MW-14S (460-108747-1), MW-14D1 (460-108747-2), MW-12S (460-108747-3) and MW-12D1 (460-108747-4) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 02/17/2016.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-108747-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-108747-1	MW-14S					
Tetrachloroethene		0.76	J	1.0	ug/L	8260C
1,1,1-Trichloroethane		0.34	J	1.0	ug/L	8260C
Aluminum		103	J	200	ug/L	6010C
Barium		40.5	J	200	ug/L	6010C
Cadmium		50.4		4.0	ug/L	6010C
Calcium		18600		5000	ug/L	6010C
Magnesium		3180	J	5000	ug/L	6010C
Potassium		5070		5000	ug/L	6010C
Sodium		14700		5000	ug/L	6010C
460-108747-2	MW-14D1					
Aluminum		78.1	J	200	ug/L	6010C
Barium		69.9	J	200	ug/L	6010C
Calcium		16400		5000	ug/L	6010C
Iron		565		150	ug/L	6010C
Magnesium		3270	J	5000	ug/L	6010C
Manganese		8.1	J	15.0	ug/L	6010C
Potassium		3630	J	5000	ug/L	6010C
Sodium		18000		5000	ug/L	6010C
460-108747-3	MW-12S					
Tetrachloroethene		1.2		1.0	ug/L	8260C
Aluminum		443		200	ug/L	6010C
Barium		35.8	J	200	ug/L	6010C
Cadmium		134		4.0	ug/L	6010C
Calcium		19900		5000	ug/L	6010C
Chromium		12.8		10.0	ug/L	6010C
Copper		8.8	J	25.0	ug/L	6010C
Iron		586		150	ug/L	6010C
Magnesium		2380	J	5000	ug/L	6010C
Manganese		13.1	J	15.0	ug/L	6010C
Nickel		107		40.0	ug/L	6010C
Potassium		3860	J	5000	ug/L	6010C
Sodium		16200		5000	ug/L	6010C
Zinc		46.6		30.0	ug/L	6010C

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-108747-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-108747-4	MW-12D1					
Tetrachloroethene		0.50	J	1.0	ug/L	8260C
Aluminum		130	J	200	ug/L	6010C
Barium		77.1	J	200	ug/L	6010C
Cadmium		13.0		4.0	ug/L	6010C
Calcium		17700		5000	ug/L	6010C
Chromium		82.5		10.0	ug/L	6010C
Copper		26.9		25.0	ug/L	6010C
Iron		172		150	ug/L	6010C
Magnesium		3860	J	5000	ug/L	6010C
Manganese		16.7		15.0	ug/L	6010C
Nickel		14.9	J	40.0	ug/L	6010C
Potassium		3990	J	5000	ug/L	6010C
Sodium		23600		5000	ug/L	6010C
Zinc		19.3	J	30.0	ug/L	6010C
460-108747-5	MW-12X					
Tetrachloroethene		1.3		1.0	ug/L	8260C

METHOD SUMMARY

Client: New York State D.E.C.

Job Number: 460-108747-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL EDI	SW846 8260C	
Purge and Trap	TAL EDI		SW846 5030C
Metals (ICP)	TAL EDI	SW846 6010C	
Preparation, Total Metals	TAL EDI		SW846 3010A
Mercury (CVAA)	TAL EDI	SW846 7470A	
Preparation, Mercury	TAL EDI		SW846 7470A

Lab References:

TAL EDI = TestAmerica Edison

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: New York State D.E.C.

Job Number: 460-108747-1

Method	Analyst	Analyst ID
SW846 8260C	Starzec, Margaret	MZS
SW846 6010C	Huang, Yixin	YZH
SW846 7470A	Staib, Thomas	TJS

SAMPLE SUMMARY

Client: New York State D.E.C.

Job Number: 460-108747-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-108747-1	MW-14S	Water	02/04/2016 1341	02/08/2016 1800
460-108747-2	MW-14D1	Water	02/04/2016 1311	02/08/2016 1800
460-108747-3	MW-12S	Water	02/04/2016 1417	02/08/2016 1800
460-108747-4	MW-12D1	Water	02/04/2016 1454	02/08/2016 1800
460-108747-5	MW-12X	Water	02/04/2016 0000	02/08/2016 1800

SAMPLE RESULTS

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108747-1

Client Sample ID: MW-14S

Lab Sample ID: 460-108747-1

Date Sampled: 02/04/2016 1341

Client Matrix: Water

Date Received: 02/08/2016 1800

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-350269	Instrument ID: CVOAMS5
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: E50985.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/15/2016 0202		Final Weight/Volume: 5 mL
Prep Date: 02/15/2016 0202		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	0.76	J	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	0.34	J	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 137
4-Bromofluorobenzene	95		70 - 131
Dibromofluoromethane (Surr)	98		72 - 136
Toluene-d8 (Surr)	98		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108747-1

Client Sample ID: MW-14D1

Lab Sample ID: 460-108747-2

Date Sampled: 02/04/2016 1311

Client Matrix: Water

Date Received: 02/08/2016 1800

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-350269	Instrument ID: CVOAMS5
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: E50986.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/15/2016 0229		Final Weight/Volume: 5 mL
Prep Date: 02/15/2016 0229		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 137
4-Bromofluorobenzene	94		70 - 131
Dibromofluoromethane (Surr)	100		72 - 136
Toluene-d8 (Surr)	99		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108747-1

Client Sample ID: MW-12S

Lab Sample ID: 460-108747-3

Date Sampled: 02/04/2016 1417

Client Matrix: Water

Date Received: 02/08/2016 1800

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-350269	Instrument ID: CVOAMS5
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: E50987.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/15/2016 0256		Final Weight/Volume: 5 mL
Prep Date: 02/15/2016 0256		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.2		0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 137
4-Bromofluorobenzene	95		70 - 131
Dibromofluoromethane (Surr)	98		72 - 136
Toluene-d8 (Surr)	100		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108747-1

Client Sample ID: MW-12D1

Lab Sample ID: 460-108747-4

Date Sampled: 02/04/2016 1454

Client Matrix: Water

Date Received: 02/08/2016 1800

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-350269	Instrument ID: CVOAMS5
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: E50988.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/15/2016 0323		Final Weight/Volume: 5 mL
Prep Date: 02/15/2016 0323		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	0.50	J	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 137
4-Bromofluorobenzene	96		70 - 131
Dibromofluoromethane (Surr)	102		72 - 136
Toluene-d8 (Surr)	101		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108747-1

Client Sample ID: MW-12X

Lab Sample ID: 460-108747-5

Date Sampled: 02/04/2016 0000

Client Matrix: Water

Date Received: 02/08/2016 1800

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-350269	Instrument ID: CVOAMS5
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: E50989.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/15/2016 0350		Final Weight/Volume: 5 mL
Prep Date: 02/15/2016 0350		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.3		0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 137
4-Bromofluorobenzene	106		70 - 131
Dibromofluoromethane (Surr)	112		72 - 136
Toluene-d8 (Surr)	111		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108747-1

Client Sample ID: MW-14S

Lab Sample ID: 460-108747-1

Date Sampled: 02/04/2016 1341

Client Matrix: Water

Date Received: 02/08/2016 1800

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351772 Instrument ID: ICP4
Prep Method: 3010A Prep Batch: 460-350498 Lab File ID: 351618.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/22/2016 1209 Final Weight/Volume: 50 mL
Prep Date: 02/16/2016 0827

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	103	J	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	40.5	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	50.4		2.3	4.0
Calcium	18600		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	3180	J	260	5000
Manganese	15.0	U	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	5070		122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	14700		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350711 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 0914 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0428

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108747-1

Client Sample ID: MW-14D1

Lab Sample ID: 460-108747-2

Date Sampled: 02/04/2016 1311

Client Matrix: Water

Date Received: 02/08/2016 1800

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351772 Instrument ID: ICP4
Prep Method: 3010A Prep Batch: 460-350498 Lab File ID: 351618.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/22/2016 1225 Final Weight/Volume: 50 mL
Prep Date: 02/16/2016 0827

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	78.1	J	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	69.9	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	16400		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	565		65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	3270	J	260	5000
Manganese	8.1	J	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	3630	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	18000		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350711 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 0917 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0428

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108747-1

Client Sample ID: MW-12S

Lab Sample ID: 460-108747-3

Date Sampled: 02/04/2016 1417

Client Matrix: Water

Date Received: 02/08/2016 1800

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351772 Instrument ID: ICP4
Prep Method: 3010A Prep Batch: 460-350498 Lab File ID: 351618.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/22/2016 1229 Final Weight/Volume: 50 mL
Prep Date: 02/16/2016 0827

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	443		69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	35.8	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	134		2.3	4.0
Calcium	19900		317	5000
Chromium	12.8		4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	8.8	J	5.0	25.0
Iron	586		65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	2380	J	260	5000
Manganese	13.1	J	4.9	15.0
Nickel	107		5.4	40.0
Potassium	3860	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	16200		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	46.6		5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350711 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 0918 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0428

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108747-1

Client Sample ID: MW-12D1

Lab Sample ID: 460-108747-4

Date Sampled: 02/04/2016 1454

Client Matrix: Water

Date Received: 02/08/2016 1800

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351772 Instrument ID: ICP4
Prep Method: 3010A Prep Batch: 460-350498 Lab File ID: 351618.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/22/2016 1232 Final Weight/Volume: 50 mL
Prep Date: 02/16/2016 0827

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	130	J	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	77.1	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	13.0		2.3	4.0
Calcium	17700		317	5000
Chromium	82.5		4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	26.9		5.0	25.0
Iron	172		65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	3860	J	260	5000
Manganese	16.7		4.9	15.0
Nickel	14.9	J	5.4	40.0
Potassium	3990	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	23600		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	19.3	J	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350711 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 0926 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0428

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

DATA REPORTING QUALIFIERS

Client: New York State D.E.C.

Job Number: 460-108747-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	J	Indicates an estimated value.
Metals	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

QUALITY CONTROL RESULTS

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108747-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:460-350269					
LCS 460-350269/4	Lab Control Sample	T	Water	8260C	
LCSD 460-350269/5	Lab Control Sample Duplicate	T	Water	8260C	
MB 460-350269/8	Method Blank	T	Water	8260C	
460-108747-1	MW-14S	T	Water	8260C	
460-108747-2	MW-14D1	T	Water	8260C	
460-108747-3	MW-12S	T	Water	8260C	
460-108747-4	MW-12D1	T	Water	8260C	
460-108747-5	MW-12X	T	Water	8260C	
Report Basis					
T = Total					
Metals					
Prep Batch: 460-350498					
LCS 460-350498/2-A	Lab Control Sample	T	Water	3010A	
MB 460-350498/1-A	Method Blank	T	Water	3010A	
460-108747-1	MW-14S	T	Water	3010A	
460-108747-2	MW-14D1	T	Water	3010A	
460-108747-3	MW-12S	T	Water	3010A	
460-108747-4	MW-12D1	T	Water	3010A	
460-108862-D-3-D DU	Duplicate	T	Water	3010A	
460-108862-D-3-E MS	Matrix Spike	T	Water	3010A	
Prep Batch: 460-350711					
LCS 460-350711/13-A	Lab Control Sample	T	Water	7470A	
MB 460-350711/12-A	Method Blank	T	Water	7470A	
460-108747-1	MW-14S	T	Water	7470A	
460-108747-2	MW-14D1	T	Water	7470A	
460-108747-3	MW-12S	T	Water	7470A	
460-108747-4	MW-12D1	T	Water	7470A	
460-108865-A-1-B DU	Duplicate	T	Water	7470A	
460-108865-A-1-C MS	Matrix Spike	T	Water	7470A	
Analysis Batch:460-350783					
LCS 460-350711/13-A	Lab Control Sample	T	Water	7470A	460-350711
MB 460-350711/12-A	Method Blank	T	Water	7470A	460-350711
460-108747-1	MW-14S	T	Water	7470A	460-350711
460-108747-2	MW-14D1	T	Water	7470A	460-350711
460-108747-3	MW-12S	T	Water	7470A	460-350711
460-108747-4	MW-12D1	T	Water	7470A	460-350711
460-108865-A-1-B DU	Duplicate	T	Water	7470A	460-350711
460-108865-A-1-C MS	Matrix Spike	T	Water	7470A	460-350711
Analysis Batch:460-351772					
LCS 460-350498/2-A	Lab Control Sample	T	Water	6010C	460-350498

TestAmerica Edison

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108747-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:460-351772					
MB 460-350498/1-A	Method Blank	T	Water	6010C	460-350498
460-108747-1	MW-14S	T	Water	6010C	460-350498
460-108747-2	MW-14D1	T	Water	6010C	460-350498
460-108747-3	MW-12S	T	Water	6010C	460-350498
460-108747-4	MW-12D1	T	Water	6010C	460-350498
460-108862-D-3-D DU	Duplicate	T	Water	6010C	460-350498
460-108862-D-3-E MS	Matrix Spike	T	Water	6010C	460-350498

Report Basis

T = Total

Client: New York State D.E.C.

Job Number: 460-108747-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
460-108747-1	MW-14S	100	95	98	98
460-108747-2	MW-14D1	99	94	100	99
460-108747-3	MW-12S	99	95	98	100
460-108747-4	MW-12D1	100	96	102	101
460-108747-5	MW-12X	110	106	112	111
MB 460-350269/8		96	96	98	99
LCS 460-350269/4		93	92	98	100
LCSD 460-350269/5		100	98	101	99

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-137
BFB = 4-Bromofluorobenzene	70-131
DBFM = Dibromofluoromethane (Surr)	72-136
TOL = Toluene-d8 (Surr)	74-120

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108747-1

Method Blank - Batch: 460-350269

**Method: 8260C
Preparation: 5030C**

Lab Sample ID: MB 460-350269/8
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/14/2016 2253
 Prep Date: 02/14/2016 2253
 Leach Date: N/A

Analysis Batch: 460-350269
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CVOAMS5
 Lab File ID: E50978.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	70 - 137
4-Bromofluorobenzene	96	70 - 131
Dibromofluoromethane (Surr)	98	72 - 136
Toluene-d8 (Surr)	99	74 - 120

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108747-1

Lab Control Sample/

Method: 8260C

Lab Control Sample Duplicate Recovery Report - Batch: 460-350269

Preparation: 5030C

LCS Lab Sample ID: LCS 460-350269/4	Analysis Batch: 460-350269	Instrument ID: CVOAMS5
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E50974.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 02/14/2016 2105	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 02/14/2016 2105		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-350269/5	Analysis Batch: 460-350269	Instrument ID: CVOAMS5
Client Matrix: Water	Prep Batch: N/A	Lab File ID: E50975.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 02/14/2016 2132	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 02/14/2016 2132		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,2-Dichloropropane	96	102	75 - 129	6	30		
Carbon tetrachloride	96	97	71 - 138	1	30		
Chlorobenzene	91	94	80 - 120	3	30		
Chlorodibromomethane	93	96	78 - 120	3	30		
Chloroethane	92	86	40 - 150	7	30		
Chloroform	93	97	81 - 127	4	30		
Chloromethane	81	85	45 - 150	6	30		
cis-1,2-Dichloroethene	97	96	82 - 127	1	30		
cis-1,3-Dichloropropene	100	98	72 - 125	2	30		
Dichlorobromomethane	90	97	78 - 127	7	30		
Methylene Chloride	96	95	80 - 126	1	30		
Tetrachloroethene	94	93	71 - 132	1	30		
trans-1,2-Dichloroethene	93	92	78 - 127	1	30		
trans-1,3-Dichloropropene	100	99	69 - 125	1	30		
Trichloroethene	88	88	77 - 127	1	30		
Vinyl chloride	83	83	53 - 142	1	30		
1,1-Dichloroethene	95	90	67 - 133	6	30		
1,1-Dichloroethane	98	100	77 - 129	2	30		
1,1,1-Trichloroethane	94	94	76 - 131	1	30		
1,2-Dichloroethane	88	95	73 - 131	7	30		
1,1,2-Trichloroethane	97	99	77 - 122	2	30		
1,1,2,2-Tetrachloroethane	95	98	65 - 128	3	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	93		100	70 - 137			
4-Bromofluorobenzene	92		98	70 - 131			
Dibromofluoromethane (Surr)	98		101	72 - 136			
Toluene-d8 (Surr)	100		99	74 - 120			

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108747-1

Method Blank - Batch: 460-350498

**Method: 6010C
Preparation: 3010A**

Lab Sample ID: MB 460-350498/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/22/2016 1108
 Prep Date: 02/16/2016 0827
 Leach Date: N/A

Analysis Batch: 460-351772
 Prep Batch: 460-350498
 Leach Batch: N/A
 Units: ug/L

Instrument ID: ICP4
 Lab File ID: 351618.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	200	U	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	200	U	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	5000	U	317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	5000	U	260	5000
Manganese	15.0	U	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	5000	U	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	5000	U	315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108747-1

Lab Control Sample - Batch: 460-350498

Method: 6010C
Preparation: 3010A

Lab Sample ID: LCS 460-350498/2-A	Analysis Batch: 460-351772	Instrument ID: ICP4
Client Matrix: Water	Prep Batch: 460-350498	Lab File ID: 351618.asc
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 02/22/2016 1112	Units: ug/L	Final Weight/Volume: 50 mL
Prep Date: 02/16/2016 0827		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2000	1922	96	80 - 120	
Antimony	500	464.1	93	80 - 120	
Arsenic	2000	1824	91	80 - 120	
Barium	2000	1900	95	80 - 120	
Beryllium	50.0	49.30	99	80 - 120	
Cadmium	50.0	48.57	97	80 - 120	
Calcium	20000	19480	97	80 - 120	
Chromium	200	194.3	97	80 - 120	
Cobalt	500	487.0	97	80 - 120	
Copper	250	234.6	94	80 - 120	
Iron	1000	989.3	99	80 - 120	
Lead	500	487.8	98	80 - 120	
Magnesium	20000	18630	93	80 - 120	
Manganese	500	503.1	101	80 - 120	
Nickel	500	491.4	98	80 - 120	
Potassium	20000	17460	87	80 - 120	
Selenium	2000	1818	91	80 - 120	
Silver	50.0	46.48	93	80 - 120	
Sodium	20000	18480	92	80 - 120	
Thallium	2000	1990	100	80 - 120	
Vanadium	500	491.5	98	80 - 120	
Zinc	500	497.0	99	80 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108747-1

Matrix Spike - Batch: 460-350498

**Method: 6010C
Preparation: 3010A**

Lab Sample ID: 460-108862-D-3-E MS
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/22/2016 1138
 Prep Date: 02/16/2016 0827
 Leach Date: N/A

Analysis Batch: 460-351772
 Prep Batch: 460-350498
 Leach Batch: N/A
 Units: ug/L

Instrument ID: ICP4
 Lab File ID: 351618.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	104	J	2000	2331	111	75 - 125	
Antimony	20.0	U	500	540.0	108	75 - 125	
Arsenic	15.0	U	2000	2104	105	75 - 125	
Barium	87.4	J	2000	2268	109	75 - 125	
Beryllium	2.0	U	50.0	56.86	114	75 - 125	
Cadmium	4.0	U	50.0	57.18	114	75 - 125	
Calcium	14600		20000	38840	121	75 - 125	
Chromium	8.3	J	200	232.7	112	75 - 125	
Cobalt	50.0	U	500	559.0	112	75 - 125	
Copper	14.6	J	250	288.4	110	75 - 125	
Iron	96.1	J	1000	1224	113	75 - 125	
Lead	10.0	U	500	548.6	110	75 - 125	
Magnesium	3230	J	20000	24610	107	75 - 125	
Manganese	8.5	J	500	585.2	115	75 - 125	
Nickel	40.0	U	500	558.7	112	75 - 125	
Potassium	3780	J	20000	24330	103	75 - 125	
Selenium	20.0	U	2000	2085	104	75 - 125	
Silver	10.0	U	50.0	52.53	105	75 - 125	
Sodium	33400		20000	58440	125	75 - 125	
Thallium	20.0	U	2000	2272	114	75 - 125	
Vanadium	50.0	U	500	566.3	113	75 - 125	
Zinc	7.8	J	500	576.3	114	75 - 125	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108747-1

Duplicate - Batch: 460-350498

**Method: 6010C
Preparation: 3010A**

Lab Sample ID: 460-108862-D-3-D DU
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/22/2016 1115
 Prep Date: 02/16/2016 0827
 Leach Date: N/A

Analysis Batch: 460-351772
 Prep Batch: 460-350498
 Leach Batch: N/A
 Units: ug/L

Instrument ID: ICP4
 Lab File ID: 351618.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample	Result/Qual	Result	RPD	Limit	Qual
Aluminum	104	J	101.6	2	20	J
Antimony	20.0	U	20.0	NC	20	U
Arsenic	15.0	U	15.0	NC	20	U
Barium	87.4	J	87.72	0.4	20	J
Beryllium	2.0	U	2.0	NC	20	U
Cadmium	4.0	U	4.0	NC	20	U
Calcium	14600		14680	0.5	20	
Chromium	8.3	J	7.85	6	20	J
Cobalt	50.0	U	50.0	NC	20	U
Copper	14.6	J	14.66	0.6	20	J
Iron	96.1	J	100.6	5	20	J
Lead	10.0	U	10.0	NC	20	U
Magnesium	3230	J	3239	0.2	20	J
Manganese	8.5	J	8.49	0.4	20	J
Nickel	40.0	U	40.0	NC	20	U
Potassium	3780	J	3807	0.8	20	J
Selenium	20.0	U	20.0	NC	20	U
Silver	10.0	U	10.0	NC	20	U
Sodium	33400		33160	0.8	20	
Thallium	20.0	U	20.0	NC	20	U
Vanadium	50.0	U	50.0	NC	20	U
Zinc	7.8	J	7.82	0.6	20	J

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108747-1

Method Blank - Batch: 460-350711

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 460-350711/12-A	Analysis Batch: 460-350783	Instrument ID: LEEMAN5
Client Matrix: Water	Prep Batch: 460-350711	Lab File ID: 350711HG1.PRN
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 0839	Units: ug/L	Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0428		
Leach Date: N/A		

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.14	0.20

Lab Control Sample - Batch: 460-350711

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 460-350711/13-A	Analysis Batch: 460-350783	Instrument ID: LEEMAN5
Client Matrix: Water	Prep Batch: 460-350711	Lab File ID: 350711HG1.PRN
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 0841	Units: ug/L	Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0428		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	1.00	1.03	103	80 - 120	

Matrix Spike - Batch: 460-350711

Method: 7470A
Preparation: 7470A

Lab Sample ID: 460-108865-A-1-C MS	Analysis Batch: 460-350783	Instrument ID: LEEMAN5
Client Matrix: Water	Prep Batch: 460-350711	Lab File ID: 350711HG1.PRN
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 0847	Units: ug/L	Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0428		
Leach Date: N/A		

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.20 U	1.00	0.971	97	80 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108747-1

Duplicate - Batch: 460-350711

Method: 7470A
Preparation: 7470A

Lab Sample ID: 460-108865-A-1-B DU
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/17/2016 0845
Prep Date: 02/17/2016 0428
Leach Date: N/A

Analysis Batch: 460-350783
Prep Batch: 460-350711
Leach Batch: N/A
Units: ug/L

Instrument ID: LEEMAN5
Lab File ID: 350711HG1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 30 mL

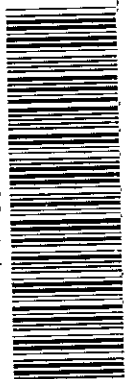
Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.20 U	0.20	NC	20	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY

460-108747 Chain of Custody



777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice)
PAF Beddeto

Samplers Name (Printed)
MF/Re

Site/Project Identification
DEC - WEST BABYLONSD

Company
EAR

Reg.#
152029

State (Location of site): NJ: NY: Other:
Regulatory Program: **DEC**

Address
225 ATLANTIC AVE.

Analysis Turnaround Time
Standard
Rush Charges Authorized For:
2 Week
1 Week
Other

LAB USE ONLY
Project No:

City
PATCHOGUE NY

Phone
631 477 6400

Fax
11772

LAB USE ONLY
Job No: **108747**
Sample Numbers: **102 2/8/16**

Sample Identification	Date	Time	Matrix	No. of Cont.
MW-14S	2/4/16	13:41	AQ	3
MW-14S	2/4/16	13:41	AQ	1
MW-14D1	2/4/16	13:11	AQ	3
MW-12S	2/4/16	14:17	AQ	3
MW-12S	2/4/16	14:17	AQ	1
MW-12D1	2/4/16	14:54	AQ	3
MW-12D1	2/4/16	14:54	AQ	1
MW-12X	2-4-16		AQ	3

Soil:	Water:
2	4

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH
6 = Other, 7 = Other

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
W.A. A. A.	EAR	2/4/16 16:00	SMARTE	EAR
SMARTE	EAR	2-8-16 10:30	WILLIAM A. VOLKOFF	EAR
WILLIAM A. VOLKOFF	EAR	2-08-16 10:30	SMARTE	EAR
SMARTE	EAR	2/8/16 11:30	SMARTE	EAR

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0280) Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-108747-1

Login Number: 108747
List Number: 1
Creator: Rivera, Kenneth

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C, IR #6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	See NCM
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

ANALYTICAL REPORT

Job Number: 460-108837-1

Job Description: DEC West Babylon, NY, Spectrum, 152029

For:

New York State D.E.C.

625 Broadway

12th Floor

Albany, NY 12233-7017

Attention: Mr. Lawrence M Thomas



Approved for release.
Shalini Williams
Project Management Assistant II
2/25/2016 8:20 AM

Designee for
Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
02/25/2016

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

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TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817
Tel (732) 549-3900 Fax (732) 549-3679 www.testamericainc.com



CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC West Babylon, NY, Spectrum, 152029

Report Number: 460-108837-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 2/10/2016 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.7° C and 2.7° C.

Receipt Exceptions

As per client's email dated 2/11/2016- Changed lab ID MW-16D to MW-16D1 and MW-6D-MW-6D1

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANICS

Samples MW-11 S (460-108837-1), Field Blank (460-108862-1), MW-6 D1 (460-108837-2), MW-5D1 (460-108862-2), MW-6 S (460-108837-3), MW-4D (460-108862-3), MW-16 D1 (460-108837-4), MW-4S (460-108862-4), MW-16 S (460-108837-5), MW-2S (460-108862-5), MW-2D (460-108862-6), MW-4X (460-108862-7) and Trip Blank (460-108862-8) were analyzed for Volatile organics in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 02/20/2016, 02/22/2016 and 02/23/2016.

The continuing calibration verification (CCV) analyzed in batch 460-351381 was outside the method criteria for the following analyte: Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No other difficulties were encountered during the Volatile organics analysis.

All quality control parameters were within the acceptance limits.

METALS

Samples MW-11 S (460-108837-1), MW-6 D1 (460-108837-2), MW-5D1 (460-108862-2), MW-6 S (460-108837-3), MW-4D (460-108862-3), MW-16 D1 (460-108837-4), MW-4S (460-108862-4), MW-16 S (460-108837-5), MW-2S (460-108862-5) and MW-2D (460-108862-6) were analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 02/13/2016 and 02/16/2016 and analyzed on 02/19/2016 and 02/22/2016.

No difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MW-11 S (460-108837-1), MW-6 D1 (460-108837-2), MW-5D1 (460-108862-2), MW-6 S (460-108837-3), MW-4D (460-108862-3), MW-16 D1 (460-108837-4), MW-4S (460-108862-4), MW-16 S (460-108837-5), MW-2S (460-108862-5) and MW-2D (460-108862-6) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 02/16/2016 and 02/17/2016.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-108837-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-108837-1	MW-11 S					
Aluminum		1650		200	ug/L	6010C
Barium		67.7	J	200	ug/L	6010C
Calcium		14100		5000	ug/L	6010C
Copper		36.2		25.0	ug/L	6010C
Iron		846		150	ug/L	6010C
Lead		5.8	J	10.0	ug/L	6010C
Magnesium		1850	J	5000	ug/L	6010C
Manganese		417		15.0	ug/L	6010C
Potassium		1900	J	5000	ug/L	6010C
Sodium		147000		5000	ug/L	6010C
Zinc		28.0	J	30.0	ug/L	6010C
460-108837-2	MW-6 D1					
Tetrachloroethene		0.47	J	1.0	ug/L	8260C
Trichloroethene		0.32	J	1.0	ug/L	8260C
Barium		64.1	J	200	ug/L	6010C
Calcium		12700		5000	ug/L	6010C
Magnesium		3150	J	5000	ug/L	6010C
Manganese		5.0	J	15.0	ug/L	6010C
Potassium		3460	J	5000	ug/L	6010C
Sodium		22600		5000	ug/L	6010C
460-108837-3	MW-6 S					
Tetrachloroethene		3.1		1.0	ug/L	8260C
Trichloroethene		0.23	J	1.0	ug/L	8260C
Barium		41.9	J	200	ug/L	6010C
Cadmium		119		4.0	ug/L	6010C
Calcium		18600		5000	ug/L	6010C
Chromium		19.1		10.0	ug/L	6010C
Magnesium		3230	J	5000	ug/L	6010C
Manganese		6.0	J	15.0	ug/L	6010C
Nickel		26.6	J	40.0	ug/L	6010C
Potassium		3410	J	5000	ug/L	6010C
Sodium		15500		5000	ug/L	6010C
Zinc		19.2	J	30.0	ug/L	6010C

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-108837-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-108837-4	MW-16 D1					
Tetrachloroethene		0.27	J	1.0	ug/L	8260C
Trichloroethene		1.2		1.0	ug/L	8260C
1,1,1-Trichloroethane		1.2		1.0	ug/L	8260C
Aluminum		105	J	200	ug/L	6010C
Barium		44.3	J	200	ug/L	6010C
Calcium		17100		5000	ug/L	6010C
Iron		180		150	ug/L	6010C
Magnesium		4630	J	5000	ug/L	6010C
Manganese		8.0	J	15.0	ug/L	6010C
Potassium		1760	J	5000	ug/L	6010C
Sodium		20500		5000	ug/L	6010C
460-108837-5	MW-16 S					
Tetrachloroethene		0.70	J	1.0	ug/L	8260C
Barium		41.9	J	200	ug/L	6010C
Calcium		21700		5000	ug/L	6010C
Magnesium		3330	J	5000	ug/L	6010C
Manganese		7.4	J	15.0	ug/L	6010C
Potassium		2930	J	5000	ug/L	6010C
Sodium		12800		5000	ug/L	6010C
460-108862-2	MW-5D1					
Tetrachloroethene		3.4		1.0	ug/L	8260C
Aluminum		146	J	200	ug/L	6010C
Barium		110	J	200	ug/L	6010C
Calcium		22000		5000	ug/L	6010C
Iron		134	J	150	ug/L	6010C
Magnesium		4470	J	5000	ug/L	6010C
Manganese		34.0		15.0	ug/L	6010C
Potassium		4730	J	5000	ug/L	6010C
Sodium		29500		5000	ug/L	6010C

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-108837-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-108862-3	MW-4D					
Tetrachloroethene		0.50	J	1.0	ug/L	8260C
Trichloroethene		0.27	J	1.0	ug/L	8260C
Aluminum		104	J	200	ug/L	6010C
Barium		87.4	J	200	ug/L	6010C
Calcium		14600		5000	ug/L	6010C
Chromium		8.3	J	10.0	ug/L	6010C
Copper		14.6	J	25.0	ug/L	6010C
Iron		96.1	J	150	ug/L	6010C
Magnesium		3230	J	5000	ug/L	6010C
Manganese		8.5	J	15.0	ug/L	6010C
Potassium		3780	J	5000	ug/L	6010C
Sodium		33400		5000	ug/L	6010C
Zinc		7.8	J	30.0	ug/L	6010C
460-108862-4	MW-4S					
Tetrachloroethene		0.21	J	1.0	ug/L	8260C
Aluminum		157	J	200	ug/L	6010C
Barium		10.2	J	200	ug/L	6010C
Cadmium		31.3		4.0	ug/L	6010C
Calcium		9630		5000	ug/L	6010C
Chromium		5.2	J	10.0	ug/L	6010C
Copper		40.1		25.0	ug/L	6010C
Iron		212		150	ug/L	6010C
Magnesium		1580	J	5000	ug/L	6010C
Manganese		5.8	J	15.0	ug/L	6010C
Nickel		10.8	J	40.0	ug/L	6010C
Potassium		826	J	5000	ug/L	6010C
Sodium		5480		5000	ug/L	6010C
Zinc		24.6	J	30.0	ug/L	6010C
460-108862-5	MW-2S					
Methylene Chloride		2.1		1.0	ug/L	8260C
Tetrachloroethene		3.6		1.0	ug/L	8260C
Aluminum		75.3	J	200	ug/L	6010C
Barium		32.2	J	200	ug/L	6010C
Calcium		19700		5000	ug/L	6010C
Copper		9.2	J	25.0	ug/L	6010C
Magnesium		4030	J	5000	ug/L	6010C
Potassium		2470	J	5000	ug/L	6010C
Sodium		11500		5000	ug/L	6010C
Zinc		6.3	J	30.0	ug/L	6010C

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-108837-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-108862-6	MW-2D					
Tetrachloroethene		1.2		1.0	ug/L	8260C
Barium		76.5	J	200	ug/L	6010C
Calcium		15500		5000	ug/L	6010C
Iron		65.4	J	150	ug/L	6010C
Magnesium		2710	J	5000	ug/L	6010C
Manganese		20.0		15.0	ug/L	6010C
Potassium		3860	J	5000	ug/L	6010C
Sodium		26500		5000	ug/L	6010C
460-108862-7	MW-4X					
Tetrachloroethene		0.43	J	1.0	ug/L	8260C

METHOD SUMMARY

Client: New York State D.E.C.

Job Number: 460-108837-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL EDI	SW846 8260C	
Purge and Trap	TAL EDI		SW846 5030C
Metals (ICP)	TAL EDI	SW846 6010C	
Preparation, Total Metals	TAL EDI		SW846 3010A
Mercury (CVAA)	TAL EDI	SW846 7470A	
Preparation, Mercury	TAL EDI		SW846 7470A

Lab References:

TAL EDI = TestAmerica Edison

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: New York State D.E.C.

Job Number: 460-108837-1

Method	Analyst	Analyst ID
SW846 8260C	Boykin, Kenneth	KLB
SW846 8260C	Desai, Saurab	SZD
SW846 8260C	Tupayachi, Audberto	AAT
SW846 6010C	Huang, Yixin	YZH
SW846 6010C	Patel, Purva H	PHP
SW846 7470A	Sheikh, Razia B	RBS
SW846 7470A	Staib, Thomas	TJS

SAMPLE SUMMARY

Client: New York State D.E.C.

Job Number: 460-108837-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-108837-1	MW-11 S	Water	02/09/2016 1045	02/10/2016 1500
460-108837-2	MW-6 D1	Water	02/09/2016 1130	02/10/2016 1500
460-108837-3	MW-6 S	Water	02/09/2016 1150	02/10/2016 1500
460-108837-4	MW-16 D1	Water	02/09/2016 1315	02/10/2016 1500
460-108837-5	MW-16 S	Water	02/09/2016 1345	02/10/2016 1500
460-108862-1FB	Field Blank	Water	02/09/2016 1000	02/10/2016 1500
460-108862-2	MW-5D1	Water	02/09/2016 1036	02/10/2016 1500
460-108862-3	MW-4D	Water	02/09/2016 1126	02/10/2016 1500
460-108862-4	MW-4S	Water	02/09/2016 1105	02/10/2016 1500
460-108862-5	MW-2S	Water	02/09/2016 1238	02/10/2016 1500
460-108862-6	MW-2D	Water	02/09/2016 1304	02/10/2016 1500
460-108862-7	MW-4X	Water	02/09/2016 0000	02/10/2016 1500
460-108862-8TB	Trip Blank	Water	02/09/2016 0000	02/10/2016 1500

SAMPLE RESULTS

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-11 S

Lab Sample ID: 460-108837-1

Date Sampled: 02/09/2016 1045

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351381	Instrument ID: CVOAMS8
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: J36560.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/20/2016 0315		Final Weight/Volume: 5 mL
Prep Date: 02/20/2016 0315		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	127		70 - 137
4-Bromofluorobenzene	117		70 - 131
Dibromofluoromethane (Surr)	117		72 - 136
Toluene-d8 (Surr)	103		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-6 D1

Lab Sample ID: 460-108837-2

Date Sampled: 02/09/2016 1130

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351381	Instrument ID: CVOAMS8
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: J36561.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/20/2016 0340		Final Weight/Volume: 5 mL
Prep Date: 02/20/2016 0340		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	0.47	J	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	0.32	J	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		70 - 137
4-Bromofluorobenzene	109		70 - 131
Dibromofluoromethane (Surr)	106		72 - 136
Toluene-d8 (Surr)	98		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-6 S

Lab Sample ID: 460-108837-3

Date Sampled: 02/09/2016 1150

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351381	Instrument ID: CVOAMS8
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: J36562.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/20/2016 0406		Final Weight/Volume: 5 mL
Prep Date: 02/20/2016 0406		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	3.1		0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	0.23	J	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	121		70 - 137
4-Bromofluorobenzene	111		70 - 131
Dibromofluoromethane (Surr)	111		72 - 136
Toluene-d8 (Surr)	99		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-16 D1

Lab Sample ID: 460-108837-4

Date Sampled: 02/09/2016 1315

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351381	Instrument ID: CVOAMS8
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: J36563.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/20/2016 0432		Final Weight/Volume: 5 mL
Prep Date: 02/20/2016 0432		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	0.27	J	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.2		0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.2		0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		70 - 137
4-Bromofluorobenzene	105		70 - 131
Dibromofluoromethane (Surr)	106		72 - 136
Toluene-d8 (Surr)	96		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-16 S

Lab Sample ID: 460-108837-5

Date Sampled: 02/09/2016 1345

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351381	Instrument ID: CVOAMS8
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: J36564.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/20/2016 0458		Final Weight/Volume: 5 mL
Prep Date: 02/20/2016 0458		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	0.70	J	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118		70 - 137
4-Bromofluorobenzene	114		70 - 131
Dibromofluoromethane (Surr)	109		72 - 136
Toluene-d8 (Surr)	100		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: Field Blank

Lab Sample ID: 460-108862-1FB

Date Sampled: 02/09/2016 1000

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351894	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09225.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/23/2016 1430		Final Weight/Volume: 5 mL
Prep Date: 02/23/2016 1430		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 137
4-Bromofluorobenzene	97		70 - 131
Dibromofluoromethane (Surr)	101		72 - 136
Toluene-d8 (Surr)	100		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-5D1

Lab Sample ID: 460-108862-2

Date Sampled: 02/09/2016 1036

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351894	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09226.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/23/2016 1455		Final Weight/Volume: 5 mL
Prep Date: 02/23/2016 1455		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	3.4		0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 137
4-Bromofluorobenzene	98		70 - 131
Dibromofluoromethane (Surr)	99		72 - 136
Toluene-d8 (Surr)	100		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-4D

Lab Sample ID: 460-108862-3

Date Sampled: 02/09/2016 1126

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351894	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09224.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/23/2016 1406		Final Weight/Volume: 5 mL
Prep Date: 02/23/2016 1406		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	0.50	J	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	0.27	J	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 137
4-Bromofluorobenzene	95		70 - 131
Dibromofluoromethane (Surr)	97		72 - 136
Toluene-d8 (Surr)	97		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-4S

Lab Sample ID: 460-108862-4

Date Sampled: 02/09/2016 1105

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09190.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 1813		Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 1813		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	0.21	J	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 137
4-Bromofluorobenzene	79		70 - 131
Dibromofluoromethane (Surr)	93		72 - 136
Toluene-d8 (Surr)	98		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-2S

Lab Sample ID: 460-108862-5

Date Sampled: 02/09/2016 1238

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09191.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 1837		Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 1837		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	2.1		0.21	1.0
Tetrachloroethene	3.6		0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82		70 - 137
4-Bromofluorobenzene	70		70 - 131
Dibromofluoromethane (Surr)	86		72 - 136
Toluene-d8 (Surr)	88		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-2D

Lab Sample ID: 460-108862-6

Date Sampled: 02/09/2016 1304

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09192.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 1901		Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 1901		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.2		0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 137
4-Bromofluorobenzene	78		70 - 131
Dibromofluoromethane (Surr)	95		72 - 136
Toluene-d8 (Surr)	100		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-4X

Lab Sample ID: 460-108862-7

Date Sampled: 02/09/2016 0000

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351894	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09223.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/23/2016 1342		Final Weight/Volume: 5 mL
Prep Date: 02/23/2016 1342		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	0.43	J	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 137
4-Bromofluorobenzene	98		70 - 131
Dibromofluoromethane (Surr)	98		72 - 136
Toluene-d8 (Surr)	101		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: Trip Blank

Lab Sample ID: 460-108862-8TB

Date Sampled: 02/09/2016 0000

Client Matrix: Water

Date Received: 02/10/2016 1500

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351894	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09222.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/23/2016 1317		Final Weight/Volume: 5 mL
Prep Date: 02/23/2016 1317		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 137
4-Bromofluorobenzene	97		70 - 131
Dibromofluoromethane (Surr)	98		72 - 136
Toluene-d8 (Surr)	103		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-11 S

Lab Sample ID: 460-108837-1

Date Sampled: 02/09/2016 1045

Client Matrix: Water

Date Received: 02/10/2016 1500

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351412 Instrument ID: ICP5
Prep Method: 3010A Prep Batch: 460-350156 Lab File ID: 02192016.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1732 Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	1650		69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	67.7	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	14100		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	36.2		5.0	25.0
Iron	846		65.4	150
Lead	5.8	J	4.2	10.0
Magnesium	1850	J	260	5000
Manganese	417		4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	1900	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	147000		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	28.0	J	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350604 Instrument ID: LEEMAN6
Prep Method: 7470A Prep Batch: 460-350546 Lab File ID: 350546hg.CSV
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/16/2016 1343 Final Weight/Volume: 30 mL
Prep Date: 02/16/2016 1040

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-6 D1

Lab Sample ID: 460-108837-2

Date Sampled: 02/09/2016 1130

Client Matrix: Water

Date Received: 02/10/2016 1500

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351412 Instrument ID: ICP5
Prep Method: 3010A Prep Batch: 460-350156 Lab File ID: 02192016.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1735 Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	200	U	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	64.1	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	12700		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	3150	J	260	5000
Manganese	5.0	J	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	3460	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	22600		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350604 Instrument ID: LEEMAN6
Prep Method: 7470A Prep Batch: 460-350546 Lab File ID: 350546hg.CSV
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/16/2016 1344 Final Weight/Volume: 30 mL
Prep Date: 02/16/2016 1040

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-6 S

Lab Sample ID: 460-108837-3

Date Sampled: 02/09/2016 1150

Client Matrix: Water

Date Received: 02/10/2016 1500

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351412 Instrument ID: ICP5
Prep Method: 3010A Prep Batch: 460-350156 Lab File ID: 02192016.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1739 Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	200	U	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	41.9	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	119		2.3	4.0
Calcium	18600		317	5000
Chromium	19.1		4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	3230	J	260	5000
Manganese	6.0	J	4.9	15.0
Nickel	26.6	J	5.4	40.0
Potassium	3410	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	15500		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	19.2	J	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350604 Instrument ID: LEEMAN6
Prep Method: 7470A Prep Batch: 460-350546 Lab File ID: 350546hg.CSV
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/16/2016 1346 Final Weight/Volume: 30 mL
Prep Date: 02/16/2016 1040

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-16 D1

Lab Sample ID: 460-108837-4

Date Sampled: 02/09/2016 1315

Client Matrix: Water

Date Received: 02/10/2016 1500

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351412 Instrument ID: ICP5
Prep Method: 3010A Prep Batch: 460-350156 Lab File ID: 02192016.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1743 Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	105	J	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	44.3	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	17100		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	180		65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	4630	J	260	5000
Manganese	8.0	J	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	1760	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	20500		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350604 Instrument ID: LEEMAN6
Prep Method: 7470A Prep Batch: 460-350546 Lab File ID: 350546hg.CSV
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/16/2016 1348 Final Weight/Volume: 30 mL
Prep Date: 02/16/2016 1040

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-16 S

Lab Sample ID: 460-108837-5

Date Sampled: 02/09/2016 1345

Client Matrix: Water

Date Received: 02/10/2016 1500

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351412 Instrument ID: ICP5
Prep Method: 3010A Prep Batch: 460-350156 Lab File ID: 02192016.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1758 Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	200	U	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	41.9	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	21700		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	3330	J	260	5000
Manganese	7.4	J	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	2930	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	12800		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350604 Instrument ID: LEEMAN6
Prep Method: 7470A Prep Batch: 460-350546 Lab File ID: 350546hg.CSV
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/16/2016 1350 Final Weight/Volume: 30 mL
Prep Date: 02/16/2016 1040

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-5D1

Lab Sample ID: 460-108862-2

Date Sampled: 02/09/2016 1036

Client Matrix: Water

Date Received: 02/10/2016 1500

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351772 Instrument ID: ICP4
Prep Method: 3010A Prep Batch: 460-350498 Lab File ID: 351618.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/22/2016 1154 Final Weight/Volume: 50 mL
Prep Date: 02/16/2016 0827

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	146	J	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	110	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	22000		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	134	J	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	4470	J	260	5000
Manganese	34.0		4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	4730	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	29500		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350712 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 1024 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0452

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-4D

Lab Sample ID: 460-108862-3

Date Sampled: 02/09/2016 1126

Client Matrix: Water

Date Received: 02/10/2016 1500

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351772 Instrument ID: ICP4
Prep Method: 3010A Prep Batch: 460-350498 Lab File ID: 351618.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/22/2016 1119 Final Weight/Volume: 50 mL
Prep Date: 02/16/2016 0827

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	104	J	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	87.4	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	14600		317	5000
Chromium	8.3	J	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	14.6	J	5.0	25.0
Iron	96.1	J	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	3230	J	260	5000
Manganese	8.5	J	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	3780	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	33400		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	7.8	J	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350712 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 1026 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0452

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-4S

Lab Sample ID: 460-108862-4

Date Sampled: 02/09/2016 1105

Client Matrix: Water

Date Received: 02/10/2016 1500

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351772 Instrument ID: ICP4
Prep Method: 3010A Prep Batch: 460-350498 Lab File ID: 351618.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/22/2016 1157 Final Weight/Volume: 50 mL
Prep Date: 02/16/2016 0827

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	157	J	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	10.2	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	31.3		2.3	4.0
Calcium	9630		317	5000
Chromium	5.2	J	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	40.1		5.0	25.0
Iron	212		65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	1580	J	260	5000
Manganese	5.8	J	4.9	15.0
Nickel	10.8	J	5.4	40.0
Potassium	826	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	5480		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	24.6	J	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350712 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 1028 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0452

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-2S

Lab Sample ID: 460-108862-5

Date Sampled: 02/09/2016 1238

Client Matrix: Water

Date Received: 02/10/2016 1500

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351772 Instrument ID: ICP4
Prep Method: 3010A Prep Batch: 460-350498 Lab File ID: 351618.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/22/2016 1201 Final Weight/Volume: 50 mL
Prep Date: 02/16/2016 0827

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	75.3	J	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	32.2	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	19700		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	9.2	J	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	4030	J	260	5000
Manganese	15.0	U	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	2470	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	11500		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	6.3	J	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350712 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 1035 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0452

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108837-1

Client Sample ID: MW-2D

Lab Sample ID: 460-108862-6

Date Sampled: 02/09/2016 1304

Client Matrix: Water

Date Received: 02/10/2016 1500

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351772 Instrument ID: ICP4
Prep Method: 3010A Prep Batch: 460-350498 Lab File ID: 351618.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/22/2016 1205 Final Weight/Volume: 50 mL
Prep Date: 02/16/2016 0827

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	200	U	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	76.5	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	15500		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	65.4	J	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	2710	J	260	5000
Manganese	20.0		4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	3860	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	26500		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350712 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 1037 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0452

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

DATA REPORTING QUALIFIERS

Client: New York State D.E.C.

Job Number: 460-108837-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	J	Indicates an estimated value.
Metals	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

QUALITY CONTROL RESULTS

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:460-351381					
LCS 460-351381/3	Lab Control Sample	T	Water	8260C	
MB 460-351381/7	Method Blank	T	Water	8260C	
460-108837-1	MW-11 S	T	Water	8260C	
460-108837-2	MW-6 D1	T	Water	8260C	
460-108837-3	MW-6 S	T	Water	8260C	
460-108837-4	MW-16 D1	T	Water	8260C	
460-108837-5	MW-16 S	T	Water	8260C	
460-108913-B-11 MS	Matrix Spike	T	Water	8260C	
460-108913-B-11 MSD	Matrix Spike Duplicate	T	Water	8260C	
Analysis Batch:460-351671					
LCS 460-351671/4	Lab Control Sample	T	Water	8260C	
LCSD 460-351671/5	Lab Control Sample Duplicate	T	Water	8260C	
MB 460-351671/8	Method Blank	T	Water	8260C	
460-108862-4	MW-4S	T	Water	8260C	
460-108862-5	MW-2S	T	Water	8260C	
460-108862-6	MW-2D	T	Water	8260C	
Analysis Batch:460-351894					
LCS 460-351894/15	Lab Control Sample	T	Water	8260C	
MB 460-351894/17	Method Blank	T	Water	8260C	
460-108862-1FB	Field Blank	T	Water	8260C	
460-108862-2	MW-5D1	T	Water	8260C	
460-108862-3	MW-4D	T	Water	8260C	
460-108862-7	MW-4X	T	Water	8260C	
460-108862-7MS	Matrix Spike	T	Water	8260C	
460-108862-7MSD	Matrix Spike Duplicate	T	Water	8260C	
460-108862-8TB	Trip Blank	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 460-350156					
LCS 460-350156/2-A	Lab Control Sample	T	Water	3010A	
MB 460-350156/1-A	Method Blank	T	Water	3010A	
460-108748-D-3-B DU	Duplicate	T	Water	3010A	
460-108748-D-3-C MS	Matrix Spike	T	Water	3010A	
460-108837-1	MW-11 S	T	Water	3010A	
460-108837-2	MW-6 D1	T	Water	3010A	
460-108837-3	MW-6 S	T	Water	3010A	
460-108837-4	MW-16 D1	T	Water	3010A	
460-108837-5	MW-16 S	T	Water	3010A	
Prep Batch: 460-350498					
LCS 460-350498/2-A	Lab Control Sample	T	Water	3010A	
MB 460-350498/1-A	Method Blank	T	Water	3010A	
460-108862-2	MW-5D1	T	Water	3010A	
460-108862-3	MW-4D	T	Water	3010A	
460-108862-3DU	Duplicate	T	Water	3010A	
460-108862-3MS	Matrix Spike	T	Water	3010A	
460-108862-4	MW-4S	T	Water	3010A	
460-108862-5	MW-2S	T	Water	3010A	
460-108862-6	MW-2D	T	Water	3010A	
Prep Batch: 460-350546					
LCS 460-350546/2-A	Lab Control Sample	T	Water	7470A	
MB 460-350546/1-A	Method Blank	T	Water	7470A	
460-108778-A-3-C DU	Duplicate	T	Water	7470A	
460-108778-A-3-D MS	Matrix Spike	T	Water	7470A	
460-108837-1	MW-11 S	T	Water	7470A	
460-108837-2	MW-6 D1	T	Water	7470A	
460-108837-3	MW-6 S	T	Water	7470A	
460-108837-4	MW-16 D1	T	Water	7470A	
460-108837-5	MW-16 S	T	Water	7470A	
Analysis Batch:460-350604					
LCS 460-350546/2-A	Lab Control Sample	T	Water	7470A	460-350546
MB 460-350546/1-A	Method Blank	T	Water	7470A	460-350546
460-108778-A-3-C DU	Duplicate	T	Water	7470A	460-350546
460-108778-A-3-D MS	Matrix Spike	T	Water	7470A	460-350546
460-108837-1	MW-11 S	T	Water	7470A	460-350546
460-108837-2	MW-6 D1	T	Water	7470A	460-350546
460-108837-3	MW-6 S	T	Water	7470A	460-350546
460-108837-4	MW-16 D1	T	Water	7470A	460-350546
460-108837-5	MW-16 S	T	Water	7470A	460-350546

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 460-350712					
LCS 460-350712/2-A	Lab Control Sample	T	Water	7470A	
MB 460-350712/1-A	Method Blank	T	Water	7470A	
460-108862-2	MW-5D1	T	Water	7470A	
460-108862-3	MW-4D	T	Water	7470A	
460-108862-4	MW-4S	T	Water	7470A	
460-108862-5	MW-2S	T	Water	7470A	
460-108862-6	MW-2D	T	Water	7470A	
460-108900-D-1-C DU	Duplicate	T	Water	7470A	
460-108900-D-1-D MS	Matrix Spike	T	Water	7470A	
Analysis Batch:460-350783					
LCS 460-350712/2-A	Lab Control Sample	T	Water	7470A	460-350712
MB 460-350712/1-A	Method Blank	T	Water	7470A	460-350712
460-108862-2	MW-5D1	T	Water	7470A	460-350712
460-108862-3	MW-4D	T	Water	7470A	460-350712
460-108862-4	MW-4S	T	Water	7470A	460-350712
460-108862-5	MW-2S	T	Water	7470A	460-350712
460-108862-6	MW-2D	T	Water	7470A	460-350712
460-108900-D-1-C DU	Duplicate	T	Water	7470A	460-350712
460-108900-D-1-D MS	Matrix Spike	T	Water	7470A	460-350712
Analysis Batch:460-351412					
LCS 460-350156/2-A	Lab Control Sample	T	Water	6010C	460-350156
MB 460-350156/1-A	Method Blank	T	Water	6010C	460-350156
460-108748-D-3-B DU	Duplicate	T	Water	6010C	460-350156
460-108748-D-3-C MS	Matrix Spike	T	Water	6010C	460-350156
460-108837-1	MW-11 S	T	Water	6010C	460-350156
460-108837-2	MW-6 D1	T	Water	6010C	460-350156
460-108837-3	MW-6 S	T	Water	6010C	460-350156
460-108837-4	MW-16 D1	T	Water	6010C	460-350156
460-108837-5	MW-16 S	T	Water	6010C	460-350156
Analysis Batch:460-351772					
LCS 460-350498/2-A	Lab Control Sample	T	Water	6010C	460-350498
MB 460-350498/1-A	Method Blank	T	Water	6010C	460-350498
460-108862-2	MW-5D1	T	Water	6010C	460-350498
460-108862-3	MW-4D	T	Water	6010C	460-350498
460-108862-3DU	Duplicate	T	Water	6010C	460-350498
460-108862-3MS	Matrix Spike	T	Water	6010C	460-350498
460-108862-4	MW-4S	T	Water	6010C	460-350498
460-108862-5	MW-2S	T	Water	6010C	460-350498
460-108862-6	MW-2D	T	Water	6010C	460-350498

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
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Report Basis

T = Total

Client: New York State D.E.C.

Job Number: 460-108837-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
460-108837-1	MW-11 S	127	117	117	103
460-108837-2	MW-6 D1	122	109	106	98
460-108837-3	MW-6 S	121	111	111	99
460-108837-4	MW-16 D1	119	105	106	96
460-108837-5	MW-16 S	118	114	109	100
460-108862-1	Field Blank	95	97	101	100
460-108862-2	MW-5D1	92	98	99	100
460-108862-3	MW-4D	91	95	97	97
460-108862-4	MW-4S	94	79	93	98
460-108862-5	MW-2S	82	70	86	88
460-108862-6	MW-2D	93	78	95	100
460-108862-7	MW-4X	94	98	98	101
460-108862-8	Trip Blank	93	97	98	103
MB 460-351381/7		119	112	108	100
MB 460-351671/8		102	84	97	106
MB 460-351894/17		94	99	99	103
LCS 460-351381/3		121	114	112	100
LCS 460-351671/4		103	82	96	102
LCS 460-351894/15		97	99	102	102
LCSD 460-351671/5		104	84	97	103
460-108862-7 MS	MW-4X MS	96	103	98	98
460-108913-B-11 MS		117	110	106	98
460-108862-7 MSD	MW-4X MSD	100	104	100	99
460-108913-B-11 MSD		118	112	106	98

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-137
BFB = 4-Bromofluorobenzene	70-131
DBFM = Dibromofluoromethane (Surr)	72-136
TOL = Toluene-d8 (Surr)	74-120

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Method Blank - Batch: 460-351381

**Method: 8260C
Preparation: 5030C**

Lab Sample ID: MB 460-351381/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/19/2016 2046
 Prep Date: 02/19/2016 2046
 Leach Date: N/A

Analysis Batch: 460-351381
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CVOAMS8
 Lab File ID: J36545.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119	70 - 137
4-Bromofluorobenzene	112	70 - 131
Dibromofluoromethane (Surr)	108	72 - 136
Toluene-d8 (Surr)	100	74 - 120

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Lab Control Sample - Batch: 460-351381

Method: 8260C
Preparation: 5030C

Lab Sample ID: LCS 460-351381/3	Analysis Batch: 460-351381	Instrument ID: CVOAMS8
Client Matrix: Water	Prep Batch: N/A	Lab File ID: J36541.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 02/19/2016 1903	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 02/19/2016 1903		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Dichloropropane	20.0	23.8	119	75 - 129	
Carbon tetrachloride	20.0	23.4	117	71 - 138	
Chlorobenzene	20.0	21.1	106	80 - 120	
Chlorodibromomethane	20.0	20.6	103	78 - 120	
Chloroethane	20.0	17.3	86	40 - 150	
Chloroform	20.0	22.2	111	81 - 127	
Chloromethane	20.0	20.5	102	45 - 150	
cis-1,2-Dichloroethene	20.0	20.4	102	82 - 127	
cis-1,3-Dichloropropene	20.0	21.1	105	72 - 125	
Dichlorobromomethane	20.0	21.5	107	78 - 127	
Methylene Chloride	20.0	21.3	107	80 - 126	
Tetrachloroethene	20.0	22.2	111	71 - 132	
trans-1,2-Dichloroethene	20.0	19.9	100	78 - 127	
trans-1,3-Dichloropropene	20.0	21.5	107	69 - 125	
Trichloroethene	20.0	22.6	113	77 - 127	
Vinyl chloride	20.0	16.8	84	53 - 142	
1,1-Dichloroethene	20.0	21.1	106	67 - 133	
1,1-Dichloroethane	20.0	24.1	120	77 - 129	
1,1,1-Trichloroethane	20.0	23.2	116	76 - 131	
1,2-Dichloroethane	20.0	23.6	118	73 - 131	
1,1,2-Trichloroethane	20.0	20.2	101	77 - 122	
1,1,2,2-Tetrachloroethane	20.0	20.3	102	65 - 128	
Surrogate	% Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		121		70 - 137	
4-Bromofluorobenzene		114		70 - 131	
Dibromofluoromethane (Surr)		112		72 - 136	
Toluene-d8 (Surr)		100		74 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-351381**

**Method: 8260C
Preparation: 5030C**

MS Lab Sample ID: 460-108913-B-11 MS	Analysis Batch: 460-351381	Instrument ID: CVOAMS8
Client Matrix: Water	Prep Batch: N/A	Lab File ID: J36549.D
Dilution: 10	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 02/19/2016 2229		Final Weight/Volume: 5 mL
Prep Date: 02/19/2016 2229		5 mL
Leach Date: N/A		

MSD Lab Sample ID: 460-108913-B-11 MSD	Analysis Batch: 460-351381	Instrument ID: CVOAMS8
Client Matrix: Water	Prep Batch: N/A	Lab File ID: J36550.D
Dilution: 10	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 02/19/2016 2255		Final Weight/Volume: 5 mL
Prep Date: 02/19/2016 2255		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,2-Dichloropropane	114	114	75 - 129	0	30		
Carbon tetrachloride	116	114	71 - 138	2	30		
Chlorobenzene	103	104	80 - 120	1	30		
Chlorodibromomethane	99	100	78 - 120	0	30		
Chloroethane	79	78	40 - 150	2	30		
Chloroform	105	106	81 - 127	0	30		
Chloromethane	97	94	45 - 150	3	30		
cis-1,2-Dichloroethene	98	98	82 - 127	1	30		
cis-1,3-Dichloropropene	101	103	72 - 125	2	30		
Dichlorobromomethane	106	104	78 - 127	2	30		
Methylene Chloride	100	100	80 - 126	0	30		
Tetrachloroethene	109	107	71 - 132	3	30		
trans-1,2-Dichloroethene	101	102	78 - 127	1	30		
trans-1,3-Dichloropropene	101	106	69 - 125	5	30		
Trichloroethene	104	109	77 - 127	4	30		
Vinyl chloride	77	75	53 - 142	2	30		
1,1-Dichloroethene	102	99	67 - 133	3	30		
1,1-Dichloroethane	117	113	77 - 129	4	30		
1,1,1-Trichloroethane	113	111	76 - 131	2	30		
1,2-Dichloroethane	119	117	73 - 131	2	30		
1,1,2-Trichloroethane	101	104	77 - 122	3	30		
1,1,2,2-Tetrachloroethane	103	103	65 - 128	0	30		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		117	118			70 - 137	
4-Bromofluorobenzene		110	112			70 - 131	
Dibromofluoromethane (Surr)		106	106			72 - 136	
Toluene-d8 (Surr)		98	98			74 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Method Blank - Batch: 460-351671

**Method: 8260C
Preparation: 5030C**

Lab Sample ID: MB 460-351671/8
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/22/2016 1044
 Prep Date: 02/22/2016 1044
 Leach Date: N/A

Analysis Batch: 460-351671
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CVOAMS13
 Lab File ID: P09172.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	70 - 137
4-Bromofluorobenzene	84	70 - 131
Dibromofluoromethane (Surr)	97	72 - 136
Toluene-d8 (Surr)	106	74 - 120

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 460-351671

Method: 8260C

Preparation: 5030C

LCS Lab Sample ID: LCS 460-351671/4	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P09168.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 0907	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 0907		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-351671/5	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P09169.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 0931	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 0931		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,2-Dichloropropane	103	98	75 - 129	5	30		
Carbon tetrachloride	83	78	71 - 138	7	30		
Chlorobenzene	97	96	80 - 120	1	30		
Chlorodibromomethane	97	94	78 - 120	3	30		
Chloroethane	100	90	40 - 150	10	30		
Chloroform	97	94	81 - 127	2	30		
Chloromethane	103	92	45 - 150	12	30		
cis-1,2-Dichloroethene	101	100	82 - 127	1	30		
cis-1,3-Dichloropropene	100	98	72 - 125	2	30		
Dichlorobromomethane	99	96	78 - 127	4	30		
Methylene Chloride	82	82	80 - 126	1	30		
Tetrachloroethene	85	80	71 - 132	5	30		
trans-1,2-Dichloroethene	85	83	78 - 127	2	30		
trans-1,3-Dichloropropene	97	96	69 - 125	2	30		
Trichloroethene	89	85	77 - 127	5	30		
Vinyl chloride	93	85	53 - 142	9	30		
1,1-Dichloroethene	86	82	67 - 133	5	30		
1,1-Dichloroethane	100	98	77 - 129	3	30		
1,1,1-Trichloroethane	92	85	76 - 131	8	30		
1,2-Dichloroethane	94	95	73 - 131	0	30		
1,1,2-Trichloroethane	99	103	77 - 122	3	30		
1,1,2,2-Tetrachloroethane	107	109	65 - 128	2	30		
Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits				
1,2-Dichloroethane-d4 (Surr)	103	104	70 - 137				
4-Bromofluorobenzene	82	84	70 - 131				
Dibromofluoromethane (Surr)	96	97	72 - 136				
Toluene-d8 (Surr)	102	103	74 - 120				

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Method Blank - Batch: 460-351894

**Method: 8260C
Preparation: 5030C**

Lab Sample ID: MB 460-351894/17
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/23/2016 1253
 Prep Date: 02/23/2016 1253
 Leach Date: N/A

Analysis Batch: 460-351894
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CVOAMS13
 Lab File ID: P09221.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	70 - 137
4-Bromofluorobenzene	99	70 - 131
Dibromofluoromethane (Surr)	99	72 - 136
Toluene-d8 (Surr)	103	74 - 120

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Lab Control Sample - Batch: 460-351894

Method: 8260C
Preparation: 5030C

Lab Sample ID: LCS 460-351894/15	Analysis Batch: 460-351894	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P09219.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 02/23/2016 1205	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 02/23/2016 1205		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Dichloropropane	20.0	20.0	100	75 - 129	
Carbon tetrachloride	20.0	18.4	92	71 - 138	
Chlorobenzene	20.0	19.2	96	80 - 120	
Chlorodibromomethane	20.0	18.5	92	78 - 120	
Chloroethane	20.0	22.1	110	40 - 150	
Chloroform	20.0	19.4	97	81 - 127	
Chloromethane	20.0	25.7	129	45 - 150	
cis-1,2-Dichloroethene	20.0	19.9	100	82 - 127	
cis-1,3-Dichloropropene	20.0	20.0	100	72 - 125	
Dichlorobromomethane	20.0	19.1	95	78 - 127	
Methylene Chloride	20.0	21.2	106	80 - 126	
Tetrachloroethene	20.0	19.7	98	71 - 132	
trans-1,2-Dichloroethene	20.0	21.1	105	78 - 127	
trans-1,3-Dichloropropene	20.0	19.4	97	69 - 125	
Trichloroethene	20.0	19.0	95	77 - 127	
Vinyl chloride	20.0	20.5	102	53 - 142	
1,1-Dichloroethene	20.0	19.6	98	67 - 133	
1,1-Dichloroethane	20.0	19.7	98	77 - 129	
1,1,1-Trichloroethane	20.0	18.2	91	76 - 131	
1,2-Dichloroethane	20.0	18.0	90	73 - 131	
1,1,2-Trichloroethane	20.0	18.4	92	77 - 122	
1,1,2,2-Tetrachloroethane	20.0	19.3	96	65 - 128	
Surrogate		% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		97		70 - 137	
4-Bromofluorobenzene		99		70 - 131	
Dibromofluoromethane (Surr)		102		72 - 136	
Toluene-d8 (Surr)		102		74 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 460-351894**

**Method: 8260C
Preparation: 5030C**

MS Lab Sample ID: 460-108862-7
Client Matrix: Water
Dilution: 10
Analysis Date: 02/23/2016 1607
Prep Date: 02/23/2016 1607
Leach Date: N/A

Analysis Batch: 460-351894
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: CVOAMS13
Lab File ID: P09229.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

MSD Lab Sample ID: 460-108862-7
Client Matrix: Water
Dilution: 10
Analysis Date: 02/23/2016 1631
Prep Date: 02/23/2016 1631
Leach Date: N/A

Analysis Batch: 460-351894
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: CVOAMS13
Lab File ID: P09230.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,2-Dichloropropane	93	90	75 - 129	4	30		
Carbon tetrachloride	85	83	71 - 138	2	30		
Chlorobenzene	116	98	80 - 120	16	30		
Chlorodibromomethane	92	90	78 - 120	2	30		
Chloroethane	86	88	40 - 150	3	30		
Chloroform	93	88	81 - 127	5	30		
Chloromethane	94	87	45 - 150	8	30		
cis-1,2-Dichloroethene	96	88	82 - 127	8	30		
cis-1,3-Dichloropropene	93	86	72 - 125	8	30		
Dichlorobromomethane	92	88	78 - 127	4	30		
Methylene Chloride	96	96	80 - 126	1	30		
Tetrachloroethene	100	95	71 - 132	6	30		
trans-1,2-Dichloroethene	99	97	78 - 127	2	30		
trans-1,3-Dichloropropene	94	91	69 - 125	3	30		
Trichloroethene	95	90	77 - 127	5	30		
Vinyl chloride	78	75	53 - 142	4	30		
1,1-Dichloroethene	92	91	67 - 133	1	30		
1,1-Dichloroethane	95	90	77 - 129	6	30		
1,1,1-Trichloroethane	91	87	76 - 131	5	30		
1,2-Dichloroethane	89	88	73 - 131	2	30		
1,1,2-Trichloroethane	94	88	77 - 122	7	30		
1,1,2,2-Tetrachloroethane	92	94	65 - 128	2	30		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)		96	100			70 - 137	
4-Bromofluorobenzene		103	104			70 - 131	
Dibromofluoromethane (Surr)		98	100			72 - 136	
Toluene-d8 (Surr)		98	99			74 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Method Blank - Batch: 460-350156

Method: 6010C
Preparation: 3010A

Lab Sample ID: MB 460-350156/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/19/2016 1654
Prep Date: 02/13/2016 1750
Leach Date: N/A

Analysis Batch: 460-351412
Prep Batch: 460-350156
Leach Batch: N/A
Units: ug/L

Instrument ID: ICP5
Lab File ID: 02192016.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	200	U	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	200	U	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	5000	U	317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	5000	U	260	5000
Manganese	15.0	U	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	5000	U	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	5000	U	315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Lab Control Sample - Batch: 460-350156

**Method: 6010C
Preparation: 3010A**

Lab Sample ID: LCS 460-350156/2-A	Analysis Batch: 460-351412	Instrument ID: ICP5
Client Matrix: Water	Prep Batch: 460-350156	Lab File ID: 02192016.asc
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1709	Units: ug/L	Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2000	1957	98	80 - 120	
Antimony	500	486.2	97	80 - 120	
Arsenic	2000	1935	97	80 - 120	
Barium	2000	2023	101	80 - 120	
Beryllium	50.0	49.99	100	80 - 120	
Cadmium	50.0	50.33	101	80 - 120	
Calcium	20000	19480	97	80 - 120	
Chromium	200	202.6	101	80 - 120	
Cobalt	500	507.8	102	80 - 120	
Copper	250	243.9	98	80 - 120	
Iron	1000	1032	103	80 - 120	
Lead	500	512.7	103	80 - 120	
Magnesium	20000	18940	95	80 - 120	
Manganese	500	516.3	103	80 - 120	
Nickel	500	520.6	104	80 - 120	
Potassium	20000	18050	90	80 - 120	
Selenium	2000	1929	96	80 - 120	
Silver	50.0	46.96	94	80 - 120	
Sodium	20000	20300	102	80 - 120	
Thallium	2000	2085	104	80 - 120	
Vanadium	500	508.5	102	80 - 120	
Zinc	500	510.3	102	80 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Matrix Spike - Batch: 460-350156

**Method: 6010C
Preparation: 3010A**

Lab Sample ID: 460-108748-D-3-C MS	Analysis Batch: 460-351412	Instrument ID: ICP5
Client Matrix: Water	Prep Batch: 460-350156	Lab File ID: 02192016.asc
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1639	Units: ug/L	Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750		
Leach Date: N/A		

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	U	2000	1909	95	75 - 125	
Antimony	20.0	U	500	490.0	98	75 - 125	
Arsenic	15.0	U	2000	1951	98	75 - 125	
Barium	78.4	J	2000	2088	100	75 - 125	
Beryllium	2.0	U	50.0	49.54	99	75 - 125	
Cadmium	4.0	U	50.0	50.12	100	75 - 125	
Calcium	21900		20000	42020	101	75 - 125	
Chromium	10.0	U	200	201.3	101	75 - 125	
Cobalt	50.0	U	500	504.8	101	75 - 125	
Copper	25.0	U	250	244.5	98	75 - 125	
Iron	150	U	1000	1042	104	75 - 125	
Lead	10.0	U	500	506.3	101	75 - 125	
Magnesium	4100	J	20000	22930	94	75 - 125	
Manganese	9.9	J	500	524.1	103	75 - 125	
Nickel	40.0	U	500	516.5	103	75 - 125	
Potassium	3800	J	20000	21550	89	75 - 125	
Selenium	20.0	U	2000	1932	97	75 - 125	
Silver	10.0	U	50.0	47.09	94	75 - 125	
Sodium	47700		20000	67950	101	75 - 125	
Thallium	20.0	U	2000	2053	103	75 - 125	
Vanadium	50.0	U	500	507.3	101	75 - 125	
Zinc	30.0	U	500	510.5	102	75 - 125	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Duplicate - Batch: 460-350156

Method: 6010C
Preparation: 3010A

Lab Sample ID: 460-108748-D-3-B DU
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/19/2016 1642
Prep Date: 02/13/2016 1750
Leach Date: N/A

Analysis Batch: 460-351412
Prep Batch: 460-350156
Leach Batch: N/A
Units: ug/L

Instrument ID: ICP5
Lab File ID: 02192016.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample	Result/Qual	Result	RPD	Limit	Qual
Aluminum	200	U	200	NC	20	U
Antimony	20.0	U	20.0	NC	20	U
Arsenic	15.0	U	15.0	NC	20	U
Barium	78.4	J	80.19	2	20	J
Beryllium	2.0	U	2.0	NC	20	U
Cadmium	4.0	U	4.0	NC	20	U
Calcium	21900		22410	2	20	
Chromium	10.0	U	10.0	NC	20	U
Cobalt	50.0	U	50.0	NC	20	U
Copper	25.0	U	25.0	NC	20	U
Iron	150	U	150	NC	20	U
Lead	10.0	U	10.0	NC	20	U
Magnesium	4100	J	4185	2	20	J
Manganese	9.9	J	10.23	3	20	J
Nickel	40.0	U	40.0	NC	20	U
Potassium	3800	J	3880	2	20	J
Selenium	20.0	U	20.0	NC	20	U
Silver	10.0	U	10.0	NC	20	U
Sodium	47700		48590	2	20	
Thallium	20.0	U	20.0	NC	20	U
Vanadium	50.0	U	50.0	NC	20	U
Zinc	30.0	U	30.0	NC	20	U

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Method Blank - Batch: 460-350498

Method: 6010C
Preparation: 3010A

Lab Sample ID: MB 460-350498/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/22/2016 1108
Prep Date: 02/16/2016 0827
Leach Date: N/A

Analysis Batch: 460-351772
Prep Batch: 460-350498
Leach Batch: N/A
Units: ug/L

Instrument ID: ICP4
Lab File ID: 351618.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	200	U	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	200	U	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	5000	U	317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	5000	U	260	5000
Manganese	15.0	U	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	5000	U	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	5000	U	315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Lab Control Sample - Batch: 460-350498

Method: 6010C
Preparation: 3010A

Lab Sample ID: LCS 460-350498/2-A	Analysis Batch: 460-351772	Instrument ID: ICP4
Client Matrix: Water	Prep Batch: 460-350498	Lab File ID: 351618.asc
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 02/22/2016 1112	Units: ug/L	Final Weight/Volume: 50 mL
Prep Date: 02/16/2016 0827		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2000	1922	96	80 - 120	
Antimony	500	464.1	93	80 - 120	
Arsenic	2000	1824	91	80 - 120	
Barium	2000	1900	95	80 - 120	
Beryllium	50.0	49.30	99	80 - 120	
Cadmium	50.0	48.57	97	80 - 120	
Calcium	20000	19480	97	80 - 120	
Chromium	200	194.3	97	80 - 120	
Cobalt	500	487.0	97	80 - 120	
Copper	250	234.6	94	80 - 120	
Iron	1000	989.3	99	80 - 120	
Lead	500	487.8	98	80 - 120	
Magnesium	20000	18630	93	80 - 120	
Manganese	500	503.1	101	80 - 120	
Nickel	500	491.4	98	80 - 120	
Potassium	20000	17460	87	80 - 120	
Selenium	2000	1818	91	80 - 120	
Silver	50.0	46.48	93	80 - 120	
Sodium	20000	18480	92	80 - 120	
Thallium	2000	1990	100	80 - 120	
Vanadium	500	491.5	98	80 - 120	
Zinc	500	497.0	99	80 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Matrix Spike - Batch: 460-350498

**Method: 6010C
Preparation: 3010A**

Lab Sample ID: 460-108862-3
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/22/2016 1138
 Prep Date: 02/16/2016 0827
 Leach Date: N/A

Analysis Batch: 460-351772
 Prep Batch: 460-350498
 Leach Batch: N/A
 Units: ug/L

Instrument ID: ICP4
 Lab File ID: 351618.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	104	J	2000	2331	111	75 - 125	
Antimony	20.0	U	500	540.0	108	75 - 125	
Arsenic	15.0	U	2000	2104	105	75 - 125	
Barium	87.4	J	2000	2268	109	75 - 125	
Beryllium	2.0	U	50.0	56.86	114	75 - 125	
Cadmium	4.0	U	50.0	57.18	114	75 - 125	
Calcium	14600		20000	38840	121	75 - 125	
Chromium	8.3	J	200	232.7	112	75 - 125	
Cobalt	50.0	U	500	559.0	112	75 - 125	
Copper	14.6	J	250	288.4	110	75 - 125	
Iron	96.1	J	1000	1224	113	75 - 125	
Lead	10.0	U	500	548.6	110	75 - 125	
Magnesium	3230	J	20000	24610	107	75 - 125	
Manganese	8.5	J	500	585.2	115	75 - 125	
Nickel	40.0	U	500	558.7	112	75 - 125	
Potassium	3780	J	20000	24330	103	75 - 125	
Selenium	20.0	U	2000	2085	104	75 - 125	
Silver	10.0	U	50.0	52.53	105	75 - 125	
Sodium	33400		20000	58440	125	75 - 125	
Thallium	20.0	U	2000	2272	114	75 - 125	
Vanadium	50.0	U	500	566.3	113	75 - 125	
Zinc	7.8	J	500	576.3	114	75 - 125	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Duplicate - Batch: 460-350498

Method: 6010C
Preparation: 3010A

Lab Sample ID: 460-108862-3
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/22/2016 1115
 Prep Date: 02/16/2016 0827
 Leach Date: N/A

Analysis Batch: 460-351772
 Prep Batch: 460-350498
 Leach Batch: N/A
 Units: ug/L

Instrument ID: ICP4
 Lab File ID: 351618.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample	Result/Qual	Result	RPD	Limit	Qual
Aluminum	104	J	101.6	2	20	J
Antimony	20.0	U	20.0	NC	20	U
Arsenic	15.0	U	15.0	NC	20	U
Barium	87.4	J	87.72	0.4	20	J
Beryllium	2.0	U	2.0	NC	20	U
Cadmium	4.0	U	4.0	NC	20	U
Calcium	14600		14680	0.5	20	
Chromium	8.3	J	7.85	6	20	J
Cobalt	50.0	U	50.0	NC	20	U
Copper	14.6	J	14.66	0.6	20	J
Iron	96.1	J	100.6	5	20	J
Lead	10.0	U	10.0	NC	20	U
Magnesium	3230	J	3239	0.2	20	J
Manganese	8.5	J	8.49	0.4	20	J
Nickel	40.0	U	40.0	NC	20	U
Potassium	3780	J	3807	0.8	20	J
Selenium	20.0	U	20.0	NC	20	U
Silver	10.0	U	10.0	NC	20	U
Sodium	33400		33160	0.8	20	
Thallium	20.0	U	20.0	NC	20	U
Vanadium	50.0	U	50.0	NC	20	U
Zinc	7.8	J	7.82	0.6	20	J

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Method Blank - Batch: 460-350546

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 460-350546/1-A	Analysis Batch: 460-350604	Instrument ID: LEEMAN6
Client Matrix: Water	Prep Batch: 460-350546	Lab File ID: 350546hg.CSV
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30 mL
Analysis Date: 02/16/2016 1318	Units: ug/L	Final Weight/Volume: 30 mL
Prep Date: 02/16/2016 1040		
Leach Date: N/A		

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.14	0.20

Lab Control Sample - Batch: 460-350546

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 460-350546/2-A	Analysis Batch: 460-350604	Instrument ID: LEEMAN6
Client Matrix: Water	Prep Batch: 460-350546	Lab File ID: 350546hg.CSV
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30 mL
Analysis Date: 02/16/2016 1320	Units: ug/L	Final Weight/Volume: 30 mL
Prep Date: 02/16/2016 1040		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	1.00	0.924	92	80 - 120	

Matrix Spike - Batch: 460-350546

Method: 7470A
Preparation: 7470A

Lab Sample ID: 460-108778-A-3-D MS	Analysis Batch: 460-350604	Instrument ID: LEEMAN6
Client Matrix: Water	Prep Batch: 460-350546	Lab File ID: 350546hg.CSV
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30 mL
Analysis Date: 02/16/2016 1326	Units: ug/L	Final Weight/Volume: 30 mL
Prep Date: 02/16/2016 1040		
Leach Date: N/A		

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.20 U	1.00	1.01	101	80 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Duplicate - Batch: 460-350546

Method: 7470A
Preparation: 7470A

Lab Sample ID: 460-108778-A-3-C DU
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/16/2016 1324
Prep Date: 02/16/2016 1040
Leach Date: N/A

Analysis Batch: 460-350604
Prep Batch: 460-350546
Leach Batch: N/A
Units: ug/L

Instrument ID: LEEMAN6
Lab File ID: 350546hg.CSV
Initial Weight/Volume: 30 mL
Final Weight/Volume: 30 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.20 U	0.20	NC	20	U

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Method Blank - Batch: 460-350712

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 460-350712/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/17/2016 0944
Prep Date: 02/17/2016 0452
Leach Date: N/A

Analysis Batch: 460-350783
Prep Batch: 460-350712
Leach Batch: N/A
Units: ug/L

Instrument ID: LEEMAN5
Lab File ID: 350711HG1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 30 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.14	0.20

Lab Control Sample - Batch: 460-350712

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 460-350712/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/17/2016 0946
Prep Date: 02/17/2016 0452
Leach Date: N/A

Analysis Batch: 460-350783
Prep Batch: 460-350712
Leach Batch: N/A
Units: ug/L

Instrument ID: LEEMAN5
Lab File ID: 350711HG1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 30 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	1.00	0.954	95	80 - 120	

Matrix Spike - Batch: 460-350712

Method: 7470A
Preparation: 7470A

Lab Sample ID: 460-108900-D-1-D MS
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/17/2016 0952
Prep Date: 02/17/2016 0452
Leach Date: N/A

Analysis Batch: 460-350783
Prep Batch: 460-350712
Leach Batch: N/A
Units: ug/L

Instrument ID: LEEMAN5
Lab File ID: 350711HG1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 30 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.20 U	1.00	0.974	97	80 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108837-1

Duplicate - Batch: 460-350712

Method: 7470A
Preparation: 7470A

Lab Sample ID: 460-108900-D-1-C DU
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/17/2016 0950
Prep Date: 02/17/2016 0452
Leach Date: N/A

Analysis Batch: 460-350783
Prep Batch: 460-350712
Leach Batch: N/A
Units: ug/L

Instrument ID: LEEMAN5
Lab File ID: 350711HG1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 30 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.20 U	0.20	NC	20	U

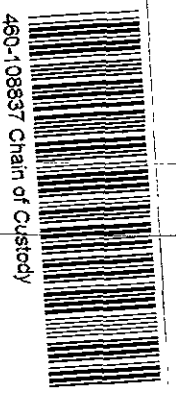
Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt _____
 Drinking Water? Yes No

TestA

THE LEADER IN EN



460-108837 Chain of Custody

Chain of Custody Number
 212842

Client: EMC Project Manager: DAT BENEDETTI Lab Number: 21916 Page 1 of 1

Address: 305 AMANDA AVENUE Telephone Number (Area Code)/Ext Number: 631-449-6402 Lab Contact: _____

City: PATCHOGUE State: NY Zip Code: 11772 Lab Contact: _____

Project Name and Location (State): PER WEST BASIN Carrier/Weight Number: _____

Contract/Purchase Order/Quote No.: _____

Sample I.D. No. and Description <small>(Containers for each sample may be combined on one line)</small>	Date	Time	Matrix			Containers & Preservatives					Analysis (Attach list if more space is needed)	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl		NaOH
MMW-11S	2/9/16	1045	X									EPA: 60100/7470 A EPA: 8260 C
MMW-6D	2/9/16	1130	X									
MMW-6S	2/9/16	1150	X									
MMW-6D	2/9/16	1315	X									
MMW-6S	2/9/16	1345	X									

Possible Hazard Identification		Sample Disposal	
<input type="checkbox"/> Non-hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B
<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: STANDARD

1. Relinquished By: [Signature] Date: 1009 FEB 16 Time: 16

2. Relinquished By: [Signature] Date: 2/10/16 Time: 1:00

3. Relinquished By: William A. Violotta Date: 2/10/16 Time: 11:00

Comments: 2/10/16 15:00

1. Received By: BAR SAME REASON Date: 1500 Time: 09 FEB 16

2. Relinquished By: William A. Violotta Date: 2/10/16 Time: 1:00

3. Relinquished By: [Signature] Date: 2/10/16 Time: 1500

Comments: Per [Signature] ATed 2/10/16 1500

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica Edison
 Receipt Temperature and pH Log

Job Number:

108837

Page ___ of ___

Number of Coolers:	Cooler Temperatures							
	AVG. CONNECTED	AVG. CONNECTED	AVG. CONNECTED	AVG. CONNECTED	AVG. CONNECTED	AVG. CONNECTED		
Cooler #1	07	76	Cooler #4			Cooler #7		
Cooler #2			Cooler #5			Cooler #8		
Cooler #3			Cooler #6			Cooler #9		

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or OAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				L2											
2				L2											
3				L2											
4				L2											
5				L2											

If pH adjustments are required record the information below:

Sample No(s), adjusted: _____
 Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____
 Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.
 *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: _____ Date: 1/12/16

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY

450-108862 Chain of Custody



77 New Durham Road
 Edison, New Jersey 08817
 Phone: (732) 549-3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice) Pat Bannister		Samples Name (Printed) EAR - RC/SPL		Site/Project Identification DEL-WEST Babylon50		
Company EAR		P.O.# 5911# 152029		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>		
Address 225 Atlantic Ave		Analysis Turnaround Time Standard <input checked="" type="checkbox"/> (10 day) Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>		Regulatory Program:		
City Pathoque State NY		Phone (631) 447-6400 Fax		ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)		
Sample Identification		Date	Time	Matrix	No. of Cont.	LAB USE ONLY Project No:
Field blank	2/9/16	1000	Aq	2	X	Job No: 108862
MM-5D1		1036		4	X	Sample Numbers
MM-4D		1126		4	X	
MM-4S		1105		4	X	
MM-2S		1238		4	X	
MM-2D		1304		4	X	
MM-4X	2/9/16		Aq	43	X	
Tip Blank	2/9/16		Aq	2	X	
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH		Soil:				
6 = Other _____, 7 = Other _____		Water:			2	

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by John Yahn	Company EAR	Date / Time 2/9/16 1450	Received by EAR Sample Edge	Company EAR
Relinquished by STANLEY	Company EAR	Date / Time 2/10/16 1100	Received by William A. Vignotta	Company EAR
Relinquished by William A. Vignotta	Company EAR	Date / Time 2/10/16 1100	Received by [Signature]	Company EAR
Relinquished by [Signature]	Company EAR	Date / Time 2/10/16 1500	Received by [Signature]	Company EAR

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

0-712.7 EPA G W = CA

TAL-0016 (07/5)

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 106863

Number of Coolers: 1

IR Gun # 6

Cooler Temperatures

DATE COLLECTED		DATE COLLECTED		DATE COLLECTED	
Cooler #1:	07/27/14	Cooler #4:		Cooler #7:	
Cooler #2:		Cooler #5:		Cooler #8:	
Cooler #3:		Cooler #6:		Cooler #9:	

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
2376				<2											
				<2											
				<2											
				<2											
				<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____
 Preservative Name/Conc.: _____
 Lot # of Preservative(s): _____

Volume of Preservative used (ml): _____

Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted. Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: _____

Date: 7/27/14

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-108837-1

Login Number: 108837

List Source: TestAmerica Edison

List Number: 1

Creator: Hall, Alonzo

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7° C IR #6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-108837-1

Login Number: 108862

List Source: TestAmerica Edison

List Number: 1

Creator: Meyers, Gary

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7 ° C IR #6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

ANALYTICAL REPORT

Job Number: 460-108900-1

Job Description: DEC West Babylon, 50

For:

New York State D.E.C.

625 Broadway

12th Floor

Albany, NY 12233-7017

Attention: Mr. Lawrence M Thomas



Approved for release.
Shalini Williams
Project Management Assistant II
2/24/2016 8:40 AM

Designee for
Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
02/24/2016

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

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TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817
Tel (732) 549-3900 Fax (732) 549-3679 www.testamericainc.com



CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC West Babylon, 50

Report Number: 460-108900-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 2/11/2016 5:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Received Metal containers no listed on COC At client request add Metal analysis to login.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANICS

Samples MW-1 S (460-108900-1), MW-1 D1 (460-108900-2), MW-9 S (460-108900-3), MW-7 D1 (460-108900-4) and MW-7 S (460-108900-5) were analyzed for Volatile organics in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 02/22/2016.

No difficulties were encountered during the Volatile organics analysis.

All quality control parameters were within the acceptance limits.

METALS

Samples MW-1 S (460-108900-1), MW-1 D1 (460-108900-2), MW-9 S (460-108900-3), MW-7 D1 (460-108900-4) and MW-7 S (460-108900-5) were analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 02/13/2016 and analyzed on 02/19/2016.

No difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples MW-1 S (460-108900-1), MW-1 D1 (460-108900-2), MW-9 S (460-108900-3), MW-7 D1 (460-108900-4) and MW-7 S (460-108900-5) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 02/17/2016.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-108900-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-108900-1	MW-1 S					
Chloroform		0.26	J	1.0	ug/L	8260C
Aluminum		74.4	J	200	ug/L	6010C
Barium		15.9	J	200	ug/L	6010C
Calcium		15500		5000	ug/L	6010C
Magnesium		1750	J	5000	ug/L	6010C
Manganese		11.2	J	15.0	ug/L	6010C
Potassium		4060	J	5000	ug/L	6010C
Sodium		9500		5000	ug/L	6010C
Zinc		6.0	J	30.0	ug/L	6010C
460-108900-2	MW-1 D1					
Barium		46.7	J	200	ug/L	6010C
Calcium		11200		5000	ug/L	6010C
Magnesium		2580	J	5000	ug/L	6010C
Potassium		2630	J	5000	ug/L	6010C
Sodium		15800		5000	ug/L	6010C
460-108900-3	MW-9 S					
Tetrachloroethene		3.0		1.0	ug/L	8260C
Aluminum		230		200	ug/L	6010C
Barium		39.5	J	200	ug/L	6010C
Calcium		19300		5000	ug/L	6010C
Iron		79.1	J	150	ug/L	6010C
Magnesium		1970	J	5000	ug/L	6010C
Manganese		172		15.0	ug/L	6010C
Potassium		3070	J	5000	ug/L	6010C
Sodium		18500		5000	ug/L	6010C
Zinc		72.2		30.0	ug/L	6010C
460-108900-4	MW-7 D1					
cis-1,2-Dichloroethene		0.27	J	1.0	ug/L	8260C
Tetrachloroethene		2.5		1.0	ug/L	8260C
Barium		80.5	J	200	ug/L	6010C
Calcium		25200		5000	ug/L	6010C
Chromium		8.0	J	10.0	ug/L	6010C
Copper		9.3	J	25.0	ug/L	6010C
Magnesium		3370	J	5000	ug/L	6010C
Manganese		36.0		15.0	ug/L	6010C
Potassium		3870	J	5000	ug/L	6010C
Sodium		24600		5000	ug/L	6010C

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 460-108900-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-108900-5	MW-7 S					
Aluminum		114	J	200	ug/L	6010C
Barium		92.3	J	200	ug/L	6010C
Calcium		20200		5000	ug/L	6010C
Copper		6.1	J	25.0	ug/L	6010C
Iron		223		150	ug/L	6010C
Magnesium		3890	J	5000	ug/L	6010C
Manganese		27.4		15.0	ug/L	6010C
Potassium		4520	J	5000	ug/L	6010C
Sodium		25200		5000	ug/L	6010C
Zinc		15.3	J	30.0	ug/L	6010C

METHOD SUMMARY

Client: New York State D.E.C.

Job Number: 460-108900-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL EDI	SW846 8260C	
Purge and Trap	TAL EDI		SW846 5030C
Metals (ICP)	TAL EDI	SW846 6010C	
Preparation, Total Metals	TAL EDI		SW846 3010A
Mercury (CVAA)	TAL EDI	SW846 7470A	
Preparation, Mercury	TAL EDI		SW846 7470A

Lab References:

TAL EDI = TestAmerica Edison

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: New York State D.E.C.

Job Number: 460-108900-1

Method	Analyst	Analyst ID
SW846 8260C	Desai, Saurab	SZD
SW846 6010C	Patel, Purva H	PHP
SW846 7470A	Staib, Thomas	TJS

SAMPLE SUMMARY

Client: New York State D.E.C.

Job Number: 460-108900-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-108900-1	MW-1 S	Water	02/10/2016 0950	02/11/2016 1720
460-108900-2	MW-1 D1	Water	02/10/2016 1012	02/11/2016 1720
460-108900-3	MW-9 S	Water	02/10/2016 1135	02/11/2016 1720
460-108900-4	MW-7 D1	Water	02/10/2016 1317	02/11/2016 1720
460-108900-5	MW-7 S	Water	02/10/2016 1239	02/11/2016 1720

SAMPLE RESULTS

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108900-1

Client Sample ID: MW-1 S

Lab Sample ID: 460-108900-1

Date Sampled: 02/10/2016 0950

Client Matrix: Water

Date Received: 02/11/2016 1720

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09189.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 1749		Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 1749		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	0.26	J	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 137
4-Bromofluorobenzene	79		70 - 131
Dibromofluoromethane (Surr)	88		72 - 136
Toluene-d8 (Surr)	98		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108900-1

Client Sample ID: MW-1 D1

Lab Sample ID: 460-108900-2

Date Sampled: 02/10/2016 1012

Client Matrix: Water

Date Received: 02/11/2016 1720

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09187.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 1701		Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 1701		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 137
4-Bromofluorobenzene	79		70 - 131
Dibromofluoromethane (Surr)	93		72 - 136
Toluene-d8 (Surr)	100		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108900-1

Client Sample ID: MW-9 S

Lab Sample ID: 460-108900-3

Date Sampled: 02/10/2016 1135

Client Matrix: Water

Date Received: 02/11/2016 1720

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09185.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 1613		Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 1613		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	3.0		0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 137
4-Bromofluorobenzene	80		70 - 131
Dibromofluoromethane (Surr)	94		72 - 136
Toluene-d8 (Surr)	101		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108900-1

Client Sample ID: MW-7 D1

Lab Sample ID: 460-108900-4

Date Sampled: 02/10/2016 1317

Client Matrix: Water

Date Received: 02/11/2016 1720

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09184.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 1549		Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 1549		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	0.27	J	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	2.5		0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 137
4-Bromofluorobenzene	79		70 - 131
Dibromofluoromethane (Surr)	92		72 - 136
Toluene-d8 (Surr)	100		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108900-1

Client Sample ID: MW-7 S

Lab Sample ID: 460-108900-5

Date Sampled: 02/10/2016 1239

Client Matrix: Water

Date Received: 02/11/2016 1720

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Prep Method: 5030C	Prep Batch: N/A	Lab File ID: P09183.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 1525		Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 1525		

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 137
4-Bromofluorobenzene	79		70 - 131
Dibromofluoromethane (Surr)	91		72 - 136
Toluene-d8 (Surr)	99		74 - 120

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108900-1

Client Sample ID: MW-1 S

Lab Sample ID: 460-108900-1

Date Sampled: 02/10/2016 0950

Client Matrix: Water

Date Received: 02/11/2016 1720

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351412 Instrument ID: ICP5
Prep Method: 3010A Prep Batch: 460-350156 Lab File ID: 02192016.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1806 Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	74.4	J	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	15.9	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	15500		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	1750	J	260	5000
Manganese	11.2	J	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	4060	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	9500		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	6.0	J	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350712 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 0948 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0452

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108900-1

Client Sample ID: MW-1 D1

Lab Sample ID: 460-108900-2

Date Sampled: 02/10/2016 1012

Client Matrix: Water

Date Received: 02/11/2016 1720

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351412 Instrument ID: ICP5
Prep Method: 3010A Prep Batch: 460-350156 Lab File ID: 02192016.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1810 Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	200	U	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	46.7	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	11200		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	2580	J	260	5000
Manganese	15.0	U	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	2630	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	15800		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350712 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 0956 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0452

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108900-1

Client Sample ID: MW-9 S

Lab Sample ID: 460-108900-3

Date Sampled: 02/10/2016 1135

Client Matrix: Water

Date Received: 02/11/2016 1720

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351412 Instrument ID: ICP5
Prep Method: 3010A Prep Batch: 460-350156 Lab File ID: 02192016.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1814 Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	230		69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	39.5	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	19300		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	79.1	J	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	1970	J	260	5000
Manganese	172		4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	3070	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	18500		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	72.2		5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350712 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 0958 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0452

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108900-1

Client Sample ID: MW-7 D1

Lab Sample ID: 460-108900-4

Date Sampled: 02/10/2016 1317

Client Matrix: Water

Date Received: 02/11/2016 1720

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351412 Instrument ID: ICP5
Prep Method: 3010A Prep Batch: 460-350156 Lab File ID: 02192016.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1817 Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	200	U	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	80.5	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	25200		317	5000
Chromium	8.0	J	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	9.3	J	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	3370	J	260	5000
Manganese	36.0		4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	3870	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	24600		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350712 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 1000 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0452

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

Analytical Data

Client: New York State D.E.C.

Job Number: 460-108900-1

Client Sample ID: MW-7 S

Lab Sample ID: 460-108900-5

Date Sampled: 02/10/2016 1239

Client Matrix: Water

Date Received: 02/11/2016 1720

6010C Metals (ICP)

Analysis Method: 6010C Analysis Batch: 460-351412 Instrument ID: ICP5
Prep Method: 3010A Prep Batch: 460-350156 Lab File ID: 02192016.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1821 Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	114	J	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	92.3	J	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	20200		317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	6.1	J	5.0	25.0
Iron	223		65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	3890	J	260	5000
Manganese	27.4		4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	4520	J	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	25200		315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	15.3	J	5.9	30.0

7470A Mercury (CVAA)

Analysis Method: 7470A Analysis Batch: 460-350783 Instrument ID: LEEMAN5
Prep Method: 7470A Prep Batch: 460-350712 Lab File ID: 350711HG1.PRN
Dilution: 1.0 Initial Weight/Volume: 30 mL
Analysis Date: 02/17/2016 1003 Final Weight/Volume: 30 mL
Prep Date: 02/17/2016 0452

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.20	U	0.14	0.20

DATA REPORTING QUALIFIERS

Client: New York State D.E.C.

Job Number: 460-108900-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	J	Indicates an estimated value.
Metals	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL

QUALITY CONTROL RESULTS

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108900-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:460-351671					
LCS 460-351671/4	Lab Control Sample	T	Water	8260C	
LCSD 460-351671/5	Lab Control Sample Duplicate	T	Water	8260C	
MB 460-351671/8	Method Blank	T	Water	8260C	
460-108900-1	MW-1 S	T	Water	8260C	
460-108900-2	MW-1 D1	T	Water	8260C	
460-108900-3	MW-9 S	T	Water	8260C	
460-108900-4	MW-7 D1	T	Water	8260C	
460-108900-5	MW-7 S	T	Water	8260C	
Report Basis					
T = Total					
Metals					
Prep Batch: 460-350156					
LCS 460-350156/2-A	Lab Control Sample	T	Water	3010A	
MB 460-350156/1-A	Method Blank	T	Water	3010A	
460-108748-D-3-B DU	Duplicate	T	Water	3010A	
460-108748-D-3-C MS	Matrix Spike	T	Water	3010A	
460-108900-1	MW-1 S	T	Water	3010A	
460-108900-2	MW-1 D1	T	Water	3010A	
460-108900-3	MW-9 S	T	Water	3010A	
460-108900-4	MW-7 D1	T	Water	3010A	
460-108900-5	MW-7 S	T	Water	3010A	
Prep Batch: 460-350712					
LCS 460-350712/2-A	Lab Control Sample	T	Water	7470A	
MB 460-350712/1-A	Method Blank	T	Water	7470A	
460-108900-1	MW-1 S	T	Water	7470A	
460-108900-1DU	Duplicate	T	Water	7470A	
460-108900-1MS	Matrix Spike	T	Water	7470A	
460-108900-2	MW-1 D1	T	Water	7470A	
460-108900-3	MW-9 S	T	Water	7470A	
460-108900-4	MW-7 D1	T	Water	7470A	
460-108900-5	MW-7 S	T	Water	7470A	
Analysis Batch:460-350783					
LCS 460-350712/2-A	Lab Control Sample	T	Water	7470A	460-350712
MB 460-350712/1-A	Method Blank	T	Water	7470A	460-350712
460-108900-1	MW-1 S	T	Water	7470A	460-350712
460-108900-1DU	Duplicate	T	Water	7470A	460-350712
460-108900-1MS	Matrix Spike	T	Water	7470A	460-350712
460-108900-2	MW-1 D1	T	Water	7470A	460-350712
460-108900-3	MW-9 S	T	Water	7470A	460-350712
460-108900-4	MW-7 D1	T	Water	7470A	460-350712
460-108900-5	MW-7 S	T	Water	7470A	460-350712

TestAmerica Edison

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108900-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:460-351412					
LCS 460-350156/2-A	Lab Control Sample	T	Water	6010C	460-350156
MB 460-350156/1-A	Method Blank	T	Water	6010C	460-350156
460-108748-D-3-B DU	Duplicate	T	Water	6010C	460-350156
460-108748-D-3-C MS	Matrix Spike	T	Water	6010C	460-350156
460-108900-1	MW-1 S	T	Water	6010C	460-350156
460-108900-2	MW-1 D1	T	Water	6010C	460-350156
460-108900-3	MW-9 S	T	Water	6010C	460-350156
460-108900-4	MW-7 D1	T	Water	6010C	460-350156
460-108900-5	MW-7 S	T	Water	6010C	460-350156

Report Basis

T = Total

Client: New York State D.E.C.

Job Number: 460-108900-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
460-108900-1	MW-1 S	90	79	88	98
460-108900-2	MW-1 D1	92	79	93	100
460-108900-3	MW-9 S	96	80	94	101
460-108900-4	MW-7 D1	95	79	92	100
460-108900-5	MW-7 S	93	79	91	99
MB 460-351671/8		102	84	97	106
LCS 460-351671/4		103	82	96	102
LCSD 460-351671/5		104	84	97	103

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-137
BFB = 4-Bromofluorobenzene	70-131
DBFM = Dibromofluoromethane (Surr)	72-136
TOL = Toluene-d8 (Surr)	74-120

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108900-1

Method Blank - Batch: 460-351671

**Method: 8260C
Preparation: 5030C**

Lab Sample ID: MB 460-351671/8
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/22/2016 1044
 Prep Date: 02/22/2016 1044
 Leach Date: N/A

Analysis Batch: 460-351671
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: CVOAMS13
 Lab File ID: P09172.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,2-Dichloropropane	1.0	U	0.18	1.0
Carbon tetrachloride	1.0	U	0.33	1.0
Chlorobenzene	1.0	U	0.24	1.0
Chlorodibromomethane	1.0	U	0.22	1.0
Chloroethane	1.0	U	0.37	1.0
Chloroform	1.0	U	0.22	1.0
Chloromethane	1.0	U	0.22	1.0
cis-1,2-Dichloroethene	1.0	U	0.26	1.0
cis-1,3-Dichloropropene	1.0	U	0.16	1.0
Dichlorobromomethane	1.0	U	0.15	1.0
Methylene Chloride	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.12	1.0
trans-1,2-Dichloroethene	1.0	U	0.18	1.0
trans-1,3-Dichloropropene	1.0	U	0.19	1.0
Trichloroethene	1.0	U	0.22	1.0
Vinyl chloride	1.0	U	0.060	1.0
1,1-Dichloroethene	1.0	U	0.34	1.0
1,1-Dichloroethane	1.0	U	0.24	1.0
1,1,1-Trichloroethane	1.0	U	0.28	1.0
1,2-Dichloroethane	1.0	U	0.25	1.0
1,1,2-Trichloroethane	1.0	U	0.080	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	70 - 137
4-Bromofluorobenzene	84	70 - 131
Dibromofluoromethane (Surr)	97	72 - 136
Toluene-d8 (Surr)	106	74 - 120

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108900-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 460-351671 **Method: 8260C**
Preparation: 5030C

LCS Lab Sample ID: LCS 460-351671/4	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P09168.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 0907	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 0907		5 mL
Leach Date: N/A		

LCSD Lab Sample ID: LCSD 460-351671/5	Analysis Batch: 460-351671	Instrument ID: CVOAMS13
Client Matrix: Water	Prep Batch: N/A	Lab File ID: P09169.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 02/22/2016 0931	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 02/22/2016 0931		5 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,2-Dichloropropane	103	98	75 - 129	5	30		
Carbon tetrachloride	83	78	71 - 138	7	30		
Chlorobenzene	97	96	80 - 120	1	30		
Chlorodibromomethane	97	94	78 - 120	3	30		
Chloroethane	100	90	40 - 150	10	30		
Chloroform	97	94	81 - 127	2	30		
Chloromethane	103	92	45 - 150	12	30		
cis-1,2-Dichloroethene	101	100	82 - 127	1	30		
cis-1,3-Dichloropropene	100	98	72 - 125	2	30		
Dichlorobromomethane	99	96	78 - 127	4	30		
Methylene Chloride	82	82	80 - 126	1	30		
Tetrachloroethene	85	80	71 - 132	5	30		
trans-1,2-Dichloroethene	85	83	78 - 127	2	30		
trans-1,3-Dichloropropene	97	96	69 - 125	2	30		
Trichloroethene	89	85	77 - 127	5	30		
Vinyl chloride	93	85	53 - 142	9	30		
1,1-Dichloroethene	86	82	67 - 133	5	30		
1,1-Dichloroethane	100	98	77 - 129	3	30		
1,1,1-Trichloroethane	92	85	76 - 131	8	30		
1,2-Dichloroethane	94	95	73 - 131	0	30		
1,1,2-Trichloroethane	99	103	77 - 122	3	30		
1,1,2,2-Tetrachloroethane	107	109	65 - 128	2	30		
Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits				
1,2-Dichloroethane-d4 (Surr)	103	104	70 - 137				
4-Bromofluorobenzene	82	84	70 - 131				
Dibromofluoromethane (Surr)	96	97	72 - 136				
Toluene-d8 (Surr)	102	103	74 - 120				

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108900-1

Method Blank - Batch: 460-350156

Method: 6010C
Preparation: 3010A

Lab Sample ID: MB 460-350156/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/19/2016 1654
Prep Date: 02/13/2016 1750
Leach Date: N/A

Analysis Batch: 460-351412
Prep Batch: 460-350156
Leach Batch: N/A
Units: ug/L

Instrument ID: ICP5
Lab File ID: 02192016.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	200	U	69.5	200
Antimony	20.0	U	4.7	20.0
Arsenic	15.0	U	4.4	15.0
Barium	200	U	5.5	200
Beryllium	2.0	U	1.8	2.0
Cadmium	4.0	U	2.3	4.0
Calcium	5000	U	317	5000
Chromium	10.0	U	4.5	10.0
Cobalt	50.0	U	5.1	50.0
Copper	25.0	U	5.0	25.0
Iron	150	U	65.4	150
Lead	10.0	U	4.2	10.0
Magnesium	5000	U	260	5000
Manganese	15.0	U	4.9	15.0
Nickel	40.0	U	5.4	40.0
Potassium	5000	U	122	5000
Selenium	20.0	U	6.8	20.0
Silver	10.0	U	1.9	10.0
Sodium	5000	U	315	5000
Thallium	20.0	U	4.5	20.0
Vanadium	50.0	U	4.4	50.0
Zinc	30.0	U	5.9	30.0

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108900-1

Lab Control Sample - Batch: 460-350156

Method: 6010C
Preparation: 3010A

Lab Sample ID: LCS 460-350156/2-A	Analysis Batch: 460-351412	Instrument ID: ICP5
Client Matrix: Water	Prep Batch: 460-350156	Lab File ID: 02192016.asc
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 02/19/2016 1709	Units: ug/L	Final Weight/Volume: 50 mL
Prep Date: 02/13/2016 1750		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2000	1957	98	80 - 120	
Antimony	500	486.2	97	80 - 120	
Arsenic	2000	1935	97	80 - 120	
Barium	2000	2023	101	80 - 120	
Beryllium	50.0	49.99	100	80 - 120	
Cadmium	50.0	50.33	101	80 - 120	
Calcium	20000	19480	97	80 - 120	
Chromium	200	202.6	101	80 - 120	
Cobalt	500	507.8	102	80 - 120	
Copper	250	243.9	98	80 - 120	
Iron	1000	1032	103	80 - 120	
Lead	500	512.7	103	80 - 120	
Magnesium	20000	18940	95	80 - 120	
Manganese	500	516.3	103	80 - 120	
Nickel	500	520.6	104	80 - 120	
Potassium	20000	18050	90	80 - 120	
Selenium	2000	1929	96	80 - 120	
Silver	50.0	46.96	94	80 - 120	
Sodium	20000	20300	102	80 - 120	
Thallium	2000	2085	104	80 - 120	
Vanadium	500	508.5	102	80 - 120	
Zinc	500	510.3	102	80 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108900-1

Matrix Spike - Batch: 460-350156

**Method: 6010C
Preparation: 3010A**

Lab Sample ID: 460-108748-D-3-C MS
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/19/2016 1639
 Prep Date: 02/13/2016 1750
 Leach Date: N/A

Analysis Batch: 460-351412
 Prep Batch: 460-350156
 Leach Batch: N/A
 Units: ug/L

Instrument ID: ICP5
 Lab File ID: 02192016.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample	Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	U	2000	1909	95	75 - 125	
Antimony	20.0	U	500	490.0	98	75 - 125	
Arsenic	15.0	U	2000	1951	98	75 - 125	
Barium	78.4	J	2000	2088	100	75 - 125	
Beryllium	2.0	U	50.0	49.54	99	75 - 125	
Cadmium	4.0	U	50.0	50.12	100	75 - 125	
Calcium	21900		20000	42020	101	75 - 125	
Chromium	10.0	U	200	201.3	101	75 - 125	
Cobalt	50.0	U	500	504.8	101	75 - 125	
Copper	25.0	U	250	244.5	98	75 - 125	
Iron	150	U	1000	1042	104	75 - 125	
Lead	10.0	U	500	506.3	101	75 - 125	
Magnesium	4100	J	20000	22930	94	75 - 125	
Manganese	9.9	J	500	524.1	103	75 - 125	
Nickel	40.0	U	500	516.5	103	75 - 125	
Potassium	3800	J	20000	21550	89	75 - 125	
Selenium	20.0	U	2000	1932	97	75 - 125	
Silver	10.0	U	50.0	47.09	94	75 - 125	
Sodium	47700		20000	67950	101	75 - 125	
Thallium	20.0	U	2000	2053	103	75 - 125	
Vanadium	50.0	U	500	507.3	101	75 - 125	
Zinc	30.0	U	500	510.5	102	75 - 125	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108900-1

Duplicate - Batch: 460-350156

**Method: 6010C
Preparation: 3010A**

Lab Sample ID: 460-108748-D-3-B DU
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 02/19/2016 1642
 Prep Date: 02/13/2016 1750
 Leach Date: N/A

Analysis Batch: 460-351412
 Prep Batch: 460-350156
 Leach Batch: N/A
 Units: ug/L

Instrument ID: ICP5
 Lab File ID: 02192016.asc
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample	Result/Qual	Result	RPD	Limit	Qual
Aluminum	200	U	200	NC	20	U
Antimony	20.0	U	20.0	NC	20	U
Arsenic	15.0	U	15.0	NC	20	U
Barium	78.4	J	80.19	2	20	J
Beryllium	2.0	U	2.0	NC	20	U
Cadmium	4.0	U	4.0	NC	20	U
Calcium	21900		22410	2	20	
Chromium	10.0	U	10.0	NC	20	U
Cobalt	50.0	U	50.0	NC	20	U
Copper	25.0	U	25.0	NC	20	U
Iron	150	U	150	NC	20	U
Lead	10.0	U	10.0	NC	20	U
Magnesium	4100	J	4185	2	20	J
Manganese	9.9	J	10.23	3	20	J
Nickel	40.0	U	40.0	NC	20	U
Potassium	3800	J	3880	2	20	J
Selenium	20.0	U	20.0	NC	20	U
Silver	10.0	U	10.0	NC	20	U
Sodium	47700		48590	2	20	
Thallium	20.0	U	20.0	NC	20	U
Vanadium	50.0	U	50.0	NC	20	U
Zinc	30.0	U	30.0	NC	20	U

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108900-1

Method Blank - Batch: 460-350712

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 460-350712/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/17/2016 0944
Prep Date: 02/17/2016 0452
Leach Date: N/A

Analysis Batch: 460-350783
Prep Batch: 460-350712
Leach Batch: N/A
Units: ug/L

Instrument ID: LEEMAN5
Lab File ID: 350711HG1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 30 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.20	U	0.14	0.20

Lab Control Sample - Batch: 460-350712

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 460-350712/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/17/2016 0946
Prep Date: 02/17/2016 0452
Leach Date: N/A

Analysis Batch: 460-350783
Prep Batch: 460-350712
Leach Batch: N/A
Units: ug/L

Instrument ID: LEEMAN5
Lab File ID: 350711HG1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 30 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	1.00	0.954	95	80 - 120	

Matrix Spike - Batch: 460-350712

Method: 7470A
Preparation: 7470A

Lab Sample ID: 460-108900-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/17/2016 0952
Prep Date: 02/17/2016 0452
Leach Date: N/A

Analysis Batch: 460-350783
Prep Batch: 460-350712
Leach Batch: N/A
Units: ug/L

Instrument ID: LEEMAN5
Lab File ID: 350711HG1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 30 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.20 U	1.00	0.974	97	80 - 120	

Quality Control Results

Client: New York State D.E.C.

Job Number: 460-108900-1

Duplicate - Batch: 460-350712

Method: 7470A
Preparation: 7470A

Lab Sample ID: 460-108900-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 02/17/2016 0950
Prep Date: 02/17/2016 0452
Leach Date: N/A

Analysis Batch: 460-350783
Prep Batch: 460-350712
Leach Batch: N/A
Units: ug/L

Instrument ID: LEEMAN5
Lab File ID: 350711HG1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 30 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.20 U	0.20	NC	20	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS

460-108900 Chain of Custody



3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice) PHI BROWNSTONE Samplers Name (Printed) MF/RL Site/Project ID: PHI-108900

Company EAR Address 225 ATLANTIC AVE. City PARTHENONE NY, 11772 State (Location of site): NJ: NY: Other: Regulatory Program: DEC LAB USE ONLY Project No: 108900

Phone 631 447-6400 Fax 631 447-6400 Analysis Turnaround Time: Standard Rush Charges Authorized For: 2 Week 1 Week Other No. of Cont. 52600

Sample Identification	Date	Time	Matrix	No. of Cont.	Soil:	Water:	ANALYSIS REQUESTED (ENTER 'X' BELOW TO INDICATE REQUEST)
MW-15	2/10/16	9:50	AP	4	3	1	
MW-101		10:12			3	1	
MW-95		11:35			3	1	
MW-701		13:17			3	1	
MW-75		12:39			3	1	

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH, 6 = Other, 7 = Other

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
<u>W.F. G. H. G.</u>	<u>EAR</u>	<u>2/10/16 15:30</u>	<u>SPRINGFIELD PARADE</u>	<u>EAR</u>
<u>SPRINGFIELD PARADE</u>	<u>EAR</u>	<u>2-11-16 16:35</u>	<u>WILLIAM A. VIGNANTO</u>	<u>EAR</u>
<u>WILLIAM A. VIGNANTO</u>	<u>EAR</u>	<u>2-11-16 16:35</u>	<u>SPRINGFIELD PARADE</u>	<u>EAR</u>
<u>SPRINGFIELD PARADE</u>	<u>EAR</u>	<u>2/11/16 17:20</u>	<u>ADRIAN 1720 TA</u>	<u>EAR</u>

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
 Massachusetts (M-NJ312), North Carolina (No. 578) 1.0/2.0 IAT 6 WOC.

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 1038200

Number of Coolers: 9 IR Gun # 6

Cooler Temperatures

Cooler #	Temp	Converted	Cooler #	Temp	Converted	Cooler #	Temp	Converted
Cooler #1	5 °C	29 °F	Cooler #4	5 °C	41 °F	Cooler #7	5 °C	41 °F
Cooler #2	5 °C	41 °F	Cooler #5	5 °C	41 °F	Cooler #8	5 °C	41 °F
Cooler #3	5 °C	41 °F	Cooler #6	5 °C	41 °F	Cooler #9	5 °C	41 °F

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or CAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
<u>23345</u>				<u>22</u>											
				<u>22</u>											
				<u>22</u>											
				<u>22</u>											
				<u>22</u>											

If pH adjustments are required record the information below:

Sample No(s), adjusted: _____
 Preservative Name/Conc.: _____
 Lot # of Preservative(s): _____
 Volume of Preservative used (ml): _____
 Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted. Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: [Signature] Date: 2/11/16

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-108900-1

Login Number: 108900

List Source: TestAmerica Edison

List Number: 1

Creator: Hall, Alonzo

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0° C IR #6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Requested analyses are not listed on COC
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.



Appendix C: QA/QC Sample Summary Table

Spectrum Finishing
Site #152029
50 Dale Street
West Babylon, NY 11704



Blind Duplicates Results
 Concentrations Reported in ug/L
 (TestAmerica, Inc.) Analysis: SW8260C(VOCs)

Parameter	Original Sample	Blind Duplicate	Relative Percent	Original Sample	Blind Duplicate	Relative Percent
	MW-12S	MW-12X	Difference	MW-4S	MW-4X	Difference
1,1 Dichloroethane	<1	<1	0 %	<1	<1	0 %
1,1 Dichloroethene	<1	<1	0 %	<1	<1	0 %
1,1,1 Trichloroethane	<1	<1	0 %	<1	<1	0 %
1,1,2 Trichloroethane	<1	<1	0 %	<1	<1	0 %
1,1,2,2 Tetrachloroethane	<1	<1	0 %	<1	<1	0 %
1,2 Dichloroethane	<1	<1	0 %	<1	<1	0 %
1,2 Dichloropropane	<1	<1	0 %	<1	<1	0 %
Bromodichloromethane	<1	<1	0 %	<1	<1	0 %
c 1,3 Dichloropropene	<1	<1	0 %	<1	<1	0 %
Carbon Tetrachloride	<1	<1	0 %	<1	<1	0 %
Chlorobenzene	<1	<1	0 %	<1	<1	0 %
Chloroethane	<1	<1	0 %	<1	<1	0 %
Chloroform	<1	<1	0 %	<1	<1	0 %
Chloromethane	<1	<1	0 %	<1	<1	0 %
cis-1,2-Dichloroethene	<1	<1	0 %	<1	<1	0 %
Dibromochloromethane	<1	<1	0 %	<1	<1	0 %
Methylene Chloride	<1	<1	0 %	<1	<1	0 %
t 1,3 Dichloropropene	<1	<1	0 %	<1	<1	0 %
Tetrachloroethene	1.2	1.3	8 %	0.21 J	0.43 J	-
trans-1,2-Dichloroethene	<1	<1	0 %	<1	<1	0 %
Trichloroethylene	<1	<1	0 %	<1	<1	0 %
Vinyl Chloride	<1	<1	0 %	<1	<1	0 %

Samples collected in February 2016
 J - estimated value

Spectrum Finishing
Site #152029
50 Dale Street
West Babylon, NY 11704



ENVIRONMENTAL
 ASSESSMENT &
 REMEDIATIONS

QA/QC results

Concentrations Reported in ug/L

(TestAmerica, Inc.) Analysis: SW8260C(VOCs)

Location	Trip Blank	Equipment Blank
Date_Collected	2/9/2016	2/9/2016
1,1 Dichloroethane	<1	<1
1,1 Dichloroethene	<1	<1
1,1,1 Trichloroethane	<1	<1
1,1,2 Trichloroethane	<1	<1
1,1,2,2 Tetrachloroethane	<1	<1
1,2 Dichloroethane	<1	<1
1,2 Dichloropropane	<1	<1
Bromodichloromethane	<1	<1
c 1,3 Dichloropropene	<1	<1
Carbon Tetrachloride	<1	<1
Chlorobenzene	<1	<1
Chloroethane	<1	<1
Chloroform	<1	<1
Chloromethane	<1	<1
cis-1,2-Dichloroethene	<1	<1
Dibromochloromethane	<1	<1
Methylene Chloride	<1	<1
t 1,3 Dichloropropene	<1	<1
Tetrachloroethene	<1	<1
Total VOCs	<22	<22
trans-1,2-Dichloroethene	<1	<1
Trichloroethylene	<1	<1
Vinyl Chloride	<1	<1
Xylenes Total	<1	<1

Total VOCs - the sum of concentrations above the lower reporting limit