2016 PERIODIC REVIEW REPORT

DeLaval Property
202-204 Rinaldi Boulevard
Poughkeepsie, New York

New York State
Department of Environmental Conservation
Site Number: B00190

CHA Project Number: 30114

Prepared for:

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EXECUTIVE SUMMARY

The DeLaval Property (Site) is located in Dutchess County, New York and is identified as Tax Map Parcel (TMP) No. 131300-6061-43-752749-0000 on the City of Poughkeepsie Tax Map. The address for the Site is 202-204 Rinaldi Boulevard, Poughkeepsie, New York. The Site has a long history of former industrial use based upon review of available Sanborn Mapping and other historical documents. The DeLaval Separator Company reportedly started operations on the Site in 1890 and a review of aerial photographs indicated that operations likely ceased in the early 1960s, followed by the razing of the majority of the Site structures sometime between 1962 and 1967.

The following types of contaminants were identified on the DeLaval Site during the Site investigations and during the remedial action: volatile organic compounds (VOCs); semivolatile organic compounds (SVOCs); polychlorinated biphenyls (PCBs); heavy metals; and asbestos-containing materials (ACMs) [discovered during remedial action phase only]. The remedial action for the Site was completed in 2008 through 2011. This Periodic Review Report (PRR) is required as an element of the NYSDEC-approved Site Management Plan (SMP) developed for the Site, and documents the annual groundwater monitoring event and site-wide inspection completed at the Site during the summer of 2016.

The Remedial Action Objectives established for the Site were achieved through implementation/completion of the following general remedial components: removal of grossly-contaminated soils and other contaminated media encountered during construction activities; construction of steel sheet pile bulkheads and riprap revetment along the western property boundary (Hudson River shoreline); placement of a soil cover system across the Site; and installation of a post-remediation groundwater monitoring well network to facilitate periodic groundwater sampling. In addition, the Site remedy required that an environmental easement be placed on the property to: implement, maintain and monitor the Engineering Controls (e.g. bulkheads, riprap revetment, soil cover system); prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and limit the use and development of the Site to commercial and passive recreational uses only.

The Site was observed to be in overall good condition at the time of the most recent site-wide inspection, conducted on July 13, 2016. Inspections were completed for the cover system, the bulkheads, the rip-rap revetment, the groundwater monitoring well network, and the site fencing.

No additional development of the Site has occurred since the last inspection in April 2015. It is

recommended that the current institutional and engineering controls in place at the Site remain in place, and the engineering controls continue to be inspected and monitored.

The groundwater analytical results from the July 2016 monitoring event indicate that concentrations of the contaminants of concern are below established New York State Ambient Groundwater Standards and/or Guidance Values with the exception of the following five SVOCs: benzo(b)fluoranthene; benzo(a)pyrene; benzo(k)fluoranthene; chrysene; and indeno(1,2,3-cd)pyrene; the following six metals: arsenic, cadmium, chromium, lead, mercury, and selenium; and a single polychlorinated biphenyl (PCB) compound (Aroclor 1260). It is recommended that the annual groundwater monitoring program be continued to evaluate groundwater quality on the Site and potential trends in residual contaminant concentrations.

No changes to the remedy, and/or monitoring or operation & maintenance plans are recommended at this time.

1.0 SITE OVERVIEW

The City of Poughkeepsie (City) entered into a State Assistance Contract (SAC) with the New York State Department of Environmental Conservation (NYSDEC) in November 2005 (SAC No. C302762) to allow the City to seek reimbursement for a portion of the costs required to perform an investigation and complete a remedial alternative analysis through the NYSDEC's Environmental Restoration Program (ERP) for a 14.04-acre property located in the City of Poughkeepsie, New York. The SAC was amended (Amendment No. 1) to include reimbursement of a portion of incurred costs for the remedial design and remedial action. The Hudson River Waterfront - DeLaval Property, hereinafter referred to as the "Site" (also referred to as NYSDEC Site No. B00190-3), was remediated to commercial-use levels only, which includes passive recreational uses. This Periodic Review Report (PRR) is required as an element of the NYSDEC-approved Site Management Plan (SMP) developed for the Site, and documents the annual groundwater monitoring event and site-wide inspection completed at the Site during the summer of 2016.

The Site is located in Dutchess County, New York and is identified as Tax Map Parcel (TMP) No. 131300-6061-43-752749-0000 on the City of Poughkeepsie Tax Map. The address for the Site is 202-204 Rinaldi Boulevard, Poughkeepsie, New York, 12601 and is accessed at the intersection of Pine Street and Rinaldi Boulevard. The approximate centroid of the Site is located at 41º 41' 40" N and 73º 56' 20" W. A vicinity location map of the Site is included as Figure 1. Figures showing the boundaries of the Site, along with post-remediation soil cover system components and monitoring well locations, are provided as Figures 2A and 2B.

It should be noted that the Site identified for investigation and remediation was originally a 13.95-acre parcel; however, due to some design modifications during the course of construction that shifted the shoreline bulkheads further into the Hudson River, the City was required to obtain an additional approximately 0.09-acre of land from the State of New York Office of General Services (OGS) under a submerged land acquisition application process. Additionally, due to accessibility issues during construction (a steep slope on a rock outcrop near the northeast corner of the Site), the soil cover system could not be practically placed across the entire property, and thus, a portion of the property was left in its original state and is not included as part of the Site. Specifically, the "Site" includes the 14.04-acre parcel less 0.40-acre near the northeastern corner of the parcel, or a total of 13.64-acres. This exclusion area has been separated from the Site by a chain link fence to serve as a physical boundary.

The Site is bounded by the Shadows on the Hudson restaurant/catering facility and The Grandview banquet facility (formerly the City Sewage Treatment Plant (STP) site) to the north; Love/Effron, a major oil storage facility (MOSF) to the south; a concrete retaining wall associated with an elevated railroad corridor to the east; and the Hudson River to the west.

1.1 BRIEF SITE BACKGROUND

The Site has a long history of former industrial use based upon review of available Sanborn Mapping and other historical documents. Early Sanborn maps indicate that much of the DeLaval Site was under water and part of the Hudson River in the late 1800s, but also indicate the industrial development had begun on the Site by that time (at least as early as 1887). The DeLaval Separator Company reportedly started operations on the Site in 1890 and a review of aerial photographs indicated that operations likely ceased in the early 1960s, followed by the razing of the majority of the Site structures sometime between 1962 and 1967.

1.2 NATURE AND EXTENT OF CONTAMINATION

The following types of contaminants were identified on the DeLaval Site during the Site investigations and during the remedial action:

- Volatile organic compounds (VOCs)
- Semivolatile organic compounds (SVOCs)
- Polychlorinated biphenyls (PCBs)
- Heavy metals
- Asbestos-containing materials (ACMs) [discovered during remedial action phase only]

The following areas of concern (AOCs) were identified at the Site:

- **AOC-1:** An area of petroleum-impacted soil and groundwater near the southern end of the Site that paralleled the Hudson River, approximately 0.8-acre in size. An industrial landfill/construction & demolition debris disposal area that extended eastward of the petroleum-impacted soils to a bedrock outcrop along the east side of the Site was located above the petroleum-impacted area.

- **AOC-2/3:** An area of petroleum-impacted soil and groundwater in the central portion of the Site that paralleled the Hudson River, approximately 2.4-acres in size. An abandoned 14-inch oil pipeline and an approximately 400-gallon underground

storage tank (UST) were also present in this AOC and likely contributed to the contamination in this area.

- **AOC-4:** An area adjacent to a former Paint Shop along the eastern border of the Site where solvent-like odors were observed during one of the investigations and several semivolatile organic compounds (SVOCs) were detected in the soil samples. Additional investigation in this area was unable to replicate these observations, so no remediation was completed in this area.

- **AOC-4A:** An area measuring approximately 32-feet wide by 50-feet long of petroleum contamination that was encountered adjacent to the western side of AOC-4 while investigating for the potential presence of additional oil pipelines extending southward on the Site from AOC-2/3 during the construction activities at the Site. Migration of the contamination in this area appeared to have been hindered by the presence of several subsurface concrete foundation walls.

- **AOC-5:** A small area of petroleum contamination encountered near the south end of the Site immediately adjacent to the eastern concrete retaining wall that runs parallel to the Site during the installation of Storm Manhole No. STMH-1. Sanborn mapping indicated the presence of a former "oil house" in this location which likely contributed to the contamination encountered in this area.

- **Shoreline:** Two small areas of petroleum contamination were encountered during the subgrade excavation for the revetment in Zone 2. Similarly, two small areas of petroleum contamination were also encountered in Zone 4 during the revetment subgrade excavation. The limits of the petroleum contamination were reached as the excavations were advanced inland.

1.3 SUMMARY OF SITE REMEDY

The selected remedy for the Site included the following major components:

- Removal of grossly-contaminated soils and other contaminated media;

- Construction of steel sheet pile bulkheads and riprap revetment along the western property boundary (Hudson River shoreline);

- Placement of a soil cover system across the Site; and

- Installation of a post-remediation groundwater monitoring well network to facilitate periodic groundwater sampling;

In addition, the Site remedy required that an environmental easement be placed on the property to (1)

implement, maintain and monitor the Engineering Controls (e.g. bulkheads, riprap revetment, soil cover system); (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Site to commercial and passive recreational uses only. The environmental easement for the Site was executed by the Department on November 4, 2013, and recorded with the Dutchess County Clerk on November 27, 2013.

The remedial activities completed at the Site were described in detail in CHA's Final Engineering Report, dated December 18, 2013.

2.0 INSTITUTIONAL / ENGINEERING CONTROLS (IC/EC) PLAN COMPLIANCE REPORT

2.1 IC/EC PLAN REQUIREMENTS AND COMPLIANCE STATUS

Institutional controls implemented at the Site in the form of an environmental easement, and more specifically the Site Management Plan, require periodic inspection of the above-referenced engineering controls and an evaluation of Site use to ensure that exposure to remaining contamination is prevented and the use and development of the Site is limited to commercial and passive recreational uses only.

Engineering controls at the Site that are subject to periodic inspection consist of the sheet pile bulkheads in Zones 1 and 3, riprap revetment along the western property boundary (the Hudson River shoreline) in Zones 2 and 4 and the soil cover system across the Site. In addition, nine groundwater monitoring wells are evaluated (7 sampled and 2 gauged), during scheduled annual sampling events to verify they are in good condition and are being properly maintained to allow for periodic groundwater quality monitoring. The Institutional and Engineering Controls Certification Forms are included in Appendix A.

In the following subsections, CHA summarizes the major observations made during the July 13, 2016 Site inspection. The Sitewide Inspection Checklist is included in Appendix B. The next inspection of these controls is scheduled to occur in the summer of 2017.

2.1.1 Inspection of Cover System

Overall, the soil cover system was in good condition. The portions of the Site covered with Item 4 material run-of-crush material and other stone products had no evidence of disturbance or scour. Photographs documenting the site cover are included in Appendix C.

2.1.2 Inspection of Bulkheads

CHA observed the current condition of the bulkheads during low tide conditions from a boat provided by the City of Poughkeepsie. The above-water portions of the Zone 1 and Zone 3 bulkheads were observed to be in good condition. The concrete collars around the outfalls were also observed to be in good condition. The only other exception was the epoxy coating on the steel sheet piles, which continues to deteriorate. However, in accordance with the SMP, the steel is evaluated

as uncoated and the continued failure of the coating is not considered to be part of this engineering control.

On the landward side of the bulkheads, CHA observed an approximately 4-inch gap between the soil cover system and the concrete caps behind the northern 2/3 of the Zone 3 bulkhead. This gap was previously noted during a site inspection conducted in November 2013. It was determined at that time, through survey data and photographs, that no evidence of significant or progressive movement of the bulkhead was observed. The survey data indicated that the bulkhead movement was alternating between landward and waterward deflections, and that the limited movement/deflection was anticipated given that the structure is a cantilevered bulkhead system. The gap observed behind the bulkhead is associated with the settlement/consolidation of material behind the bulkhead that is exaggerated by the difficulty in achieving appropriate compaction between the "bellies" of the sheet piles. While this movement needs to be considered in the future development of the Site (including a proposed sidewalk along the waterfront), the bulkhead's ability to provide containment for residual contamination in Zone 3 has not been compromised.

Minor spalling of concrete was observed at a few locations along the concrete bulkhead caps, but overall, the caps were observed to be in relatively good condition.

Ultrasonic testing of the thickness of the steel sheet piles and underwater inspections of the bulkheads was not performed during this monitoring period, but will be completed during subsequent monitoring events in accordance with the schedule provided in the SMP.

2.1.3 Inspection of Riprap Revetment

All sections of riprap revetment stone appeared in good condition at the time of the sitewide inspection and there was no evidence of significant loss of material or scour.

2.1.4 Inspection of Monitoring Well Network

All monitoring wells were observed to be in generally good condition, except for MW-4. This monitoring well appeared to be have a damaged PVC riser below the ground surface. The decommissioning and subsequent new installation of this well will occur during the next monitoring period.

The permanent protective well casings have not yet been installed. The City is in possession of the permanent casings and will install them following the completion of final grading of the Site during

redevelopment. However, as indicated subsequently, the interim elevation of the well risers was not surveyed, and therefore, it is not possible to accurately compute groundwater elevations at each monitoring well.

2.1.5 Sub-Slab Depressurization Systems

Currently, there are no structures on the property, and therefore, a review of the operation of sub-slab depressurization systems is not required at this time.

2.1.6 Other Observations during Site-wide Inspection

1. **Weep Hole Drainage System:** The weep hole drainage system appeared operational and in good condition at the time of the Site inspection.

2. **Fencing:** The fencing system installed near the Site entrance and around the northeast bedrock outcropping utilized for delineating the limits of the environmental easement was observed to be in good condition. No repairs or modifications were recommended to the City. Additional fencing was installed along the northern entrance due to the site being used for temporary storage of supplies for the construction of modular homes to the northeast.

3. **Other:** Other observations made during the Site visit included:

    a. No new development has occurred at the Site since the previous inspection was conducted in April 2014.

    b. A large area of the Site was being used for storage of pre-fabricated modular homes at the time of the site reconnaissance.

    c. There were no covers on the electrical vaults installed by the Developer and the annular spaces around the conduits installed in 2011 were not sealed. Therefore, some material around the vaults had sloughed into the structures and in one instance vegetation was growing inside the vault. While this will make future installation of electrical services difficult, it does not appear to have impacted the Site remedy.

2.2 IC/EC CERTIFICATION

The Institutional and Engineering Controls Certification Forms are included in Appendix A, as previously indicated. Engineering controls, consisting of the sheet pile bulkheads, riprap revetment and soil cover system, were in place and functioning properly during the reporting period. These controls have been and continue to be effective in preventing exposure of the public to remaining contaminants in soil and groundwater at the Site. The SMP is being implemented and based on this review, the remedy continues to be protective of public health and/or the environment and compliant

with the decision document. At this time, it is recommended that all controls for the Site remain in place.

3.0 MONITORING PLAN COMPLIANCE REPORT

3.1 COMPONENTS OF THE MONITORING PLAN

Components of the Monitoring Plan include:

- Site-Wide Inspection (detailed above)
- Inspection of the Bulkheads (detailed above)
- Groundwater Quality (detailed below)
- Sub-Slab Soil Vapor (not applicable, as the site is not developed)

3.2 MONITORING COMPLETED DURING REPORTING PERIOD

3.2.1 Groundwater Monitoring Activities

On July 12 and 13, 2016, CHA personnel visited the Site to conduct groundwater monitoring activities in accordance with the requirements of the SMP, including gauging, monitoring for the presence of light non-aqueous phase liquid (LNAPL), and groundwater sampling of the following monitoring wells: MW-1, MW-2, MW-5, MW-6, MW-8 and MW-9. In addition, wells MW-3 and MW-7 were gauged and monitored for the presence of LNAPL, but were not sampled. Given that MW-4 appeared to be broken and only a trace of water was observed, the well was not gauged or sampled.

Prior to conducting groundwater sampling activities on July 12, 2016, a photoionic detector (PID) was used to measure the concentration, if any, of organic vapors in the headspace of each well (immediately after removing the well gripper plug). An electronic oil/water interface probe was then used to monitor for the presence of LNAPL and measure water levels at each of the above-referenced well locations. On that day, the time of high tide for the Hudson River at Poughkeepsie was reported as 7:24 a.m. Water level data were collected between 9:15 a.m. and 10:45 a.m. At each location, the water level was measured from the top of the well casing.

Since top of well casing elevations have not been surveyed, water level measurements were not converted to groundwater elevations. Once the permanent protective well casings are installed, the top of well casing elevations will be surveyed and water level data collected during future groundwater monitoring events will be used to determine groundwater elevations. Based on the local topography and the Site's close proximity to the Hudson River, groundwater flow direction

across the Site is expected to be generally to the west, toward the river, although there is a localized decrease in depth to groundwater along the western portion of the Site when the tide is coming in.

Monitoring wells MW-1, MW-2, MW-5, MW-6, MW-8 and MW-9 were purged and sampled via low-flow/minimal drawdown methods, utilizing a submersible, pneumatic bladder pump with disposable bladders and polyethylene tubing. During well purging, at 5-minute intervals, CHA personnel monitored and recorded field parameters including temperature, pH, specific conductance, dissolved oxygen and turbidity. Wells were purged until stabilization of parameters was observed (three consecutive readings within 10 percent) and turbidity levels were below 50 Nephelometric turbidity units (NTUs). Upon stabilization, groundwater samples were collected in laboratory-provided, pre-preserved containers. Between each well, the submersible pump was decontaminated using a solution of potable water and Alconox® detergent followed by a potable water rinse.

For all wells, upon completion of sample collection, sample containers were labeled and stored in a rigid cooler with ice, pending delivery to the laboratory. Groundwater sampling logs are included in Appendix D. Purge water was containerized in a 55-gallon drum which was labeled and stored on site, pending waste characterization, profiling and off-site disposal arrangements.

For Quality Assurance/Quality Control purposes, one blind duplicate sample, identified as "CHA-1" was collected at well MW-2. A trip blank prepared by the laboratory accompanied the sample containers from the time of their preparation at the laboratory until the samples were delivered to the laboratory.

Upon completion of field activities, CHA transported the samples under chain-of-custody protocol to Alpha Analytical Inc.'s (Alpha) service center in Albany, New York. The samples were then transported by Alpha to their laboratory in Westborough, Massachusetts for analysis. All groundwater samples and the field blank sample were analyzed for TCL VOCs by EPA Method 8260, TCL SVOCs by EPA Method 8270, PCBs by EPA Method 8082 and RCRA 8 metals. The trip blank was analyzed for TCL VOCs only.

Environmental Products & Services of Vermont, Inc. (EPS) collected one (1) drum of containerized purge water from the Site on August 3, 2017 for off-site disposal. A copy of the waste disposal documentation (Bill of Lading) is included in Appendix E.

3.2.2 Groundwater Monitoring Results

No evidence of organic vapors, LNAPL or petroleum sheen was observed at any of the monitoring well locations during the July 2016 monitoring event.

Groundwater analytical results (detected compounds only) are summarized in Table 3-1 on the following page while the complete original laboratory data packages are included in Appendix F. Parameter detections at each well location are indicated in bold print.

As shown in Table 3-1, multiple SVOCs and metals were detected along with two detections of PCBs during this sampling event.

Table 3-1 Analytical Summary Table

SAMPLING DATE	NY-AWQS	Units	MW-1 7/12/2016		MW-2 7/12/2016		CHA-1 7/12/2016		MW-5 7/13/2016		MW-6 7/12/2016		MW-8 7/13/2016		MW-9 7/13/2016	
Volatile Organics																
Benzene	1	ug/l							0.16	J						
Toluene	5	ug/l	1.2	J	0.86	J	0.74	J	1.4	J	1.4	J				
p/m-Xylene	5	ug/l	1.1	J	0.83	J	0.73	J	1.3	J	1.5	J				
o-Xylene	5	ug/l							0.91	J	0.85	J				
Acetone	50	ug/l	2.5	J	2.6	J	1.5	J	15		2.3	J			2.8	J
Semivolatile Organics																
Acenaphthene	20	ug/l	0.39	J					0.19	J	0.1					
Fluoranthene	50	ug/l	4.2		0.28		4.6		4.4		0.14	J				
Naphthalene	10	ug/l	0.28	J	0.07	J			1.2		0.19	J	0.08	J	0.1	J
Benzo(a)anthracene		ug/l	1.6		0.16	J	2.2		1.8		0.06	J				
Benzo(a)pyrene		ug/l	1.5		0.14	J	2		1.7		0.05	J				
Benzo(b)fluoranthene	0.002	ug/l	2		0.19	J	2.9		2.6		0.06	J				
Benzo(k)fluoranthene	0.002	ug/l	0.72	J	0.06	J	0.95	J	0.86							
Bis(2-ethylhexyl)phthalate	5	ug/l													1.2	J
Chrysene	0.002	ug/l	1.6		0.14	J	2		1.9		0.05	J				
Acenaphthylene		ug/l	0.38	J			0.34	J	0.49							
Anthracene	50	ug/l	0.76	J	0.04	J	0.59	J	0.68							
Benzo(ghi)perylene		ug/l	0.83	J	0.1	J	1.1		1.2							
Fluorene	50	ug/l	0.36	J			0.18	J	0.35	J	0.04	J				
Phenanthrene	50	ug/l	2.9		0.09	J	1.6		2.5		0.07	J				
Dibenzo(a,h)anthracene		ug/l	0.24	J			0.38	J	0.34	J						
Indeno(1,2,3-cd)pyrene	0.002	ug/l	0.97	J	0.11	J	1.4		1.4							
Pyrene	50	ug/l	3.4		0.24		3.6		3.6		0.14	J				
2-Methylnaphthalene		ug/l							0.21	J	0.11	J	0.09	J		
Polychlorinated Biphenyls																
Aroclor 1260	0.09	ug/l			0.082	J	0.066	J	0.176		0.091		0.062		J	
Total Metals																
Arsenic, Total	25	ug/l	28.8		9.7		41.8		43.2		9.4		7.4		10	
Barium, Total	1000	ug/l	529		88.5		569		726		69.9		68.7		58	
Cadmium, Total	5	ug/l	0.7	J			6.2		5.5		0.7	J	3.8	J	3.1	J
Chromium, Total	50	ug/l	16		6	J	48		91		6.3	J	7.4	J	19	
Lead, Total	25	ug/l	55		61.7		1070		1180		57		3.4	J	5.5	J
Mercury, Total	0.7	ug/l	0.1	J	0.13	J	1.03		2.85		0.2				0.09	J
Selenium, Total	10	ug/l	55		64.5		539		284		27		21.1		291	
Silver, Total	50	ug/l							6.2	J						

NOTES: Samples were collected by CHA Consulting, Inc. on July 12-13, 2016 and analyzed by Alpha Analytical
TOGS1.1.1 is a NYSDEC approved ambient water quality standard (AWQS).
J – Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

Concentrations of the following five SVOCs were above their respective New York State Ambient Water Quality Standards and/or Guidance Values (Standard): benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; and indeno(1,2,3-cd)pyrene. PCB Aroclor 1260 was detected in MW-5 and MW-6. Metals detections above standards included arsenic, cadmium, chromium, lead, mercury, and selenium. In the samples collected from monitoring wells 8 and 9, the only detection that exceeded the Standard was selenium.

3.3 COMPLIANCE WITH PERFORMANCE STANDARDS

The groundwater analytical results from the July 2016 monitoring event indicate that there are several concentrations of the contaminants of concern that exceed the established New York State Ambient Groundwater Standards and/or Guidance Values. It is recommended that the annual groundwater monitoring program be continued to evaluate groundwater quality on the Site and potential trends in residual contaminant concentrations.

4.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

The Site was observed to be in overall good condition at the time of the most recent sitewide inspection, conducted on July 13, 2016. Specific observations are noted below:

- There were no deficiencies in the site cover system.
- The epoxy coating on the steel sheet piles continues to deteriorate. However, the coating is not integral to the design longevity for the sheet pile wall.
- Minor spalling of concrete was observed at a few locations along the concrete bulkhead caps, but overall, the caps were observed to be in relatively good condition.
- All sections of riprap revetment stone appeared in good condition at the time of the site-wide inspection and there was no evidence of significant loss of material or scour.

Issues identified during the sitewide inspection requiring corrective action were limited to the following:

- Monitoring Well 4 was broken and is need of replacement.
- The wells still lack permanent protective casings; however, the casings will be installed after the site is developed.

No additional development of the Site has occurred since the last inspection in April 2015.

Evaluation of Remedy Performance, Effectiveness & Protectiveness

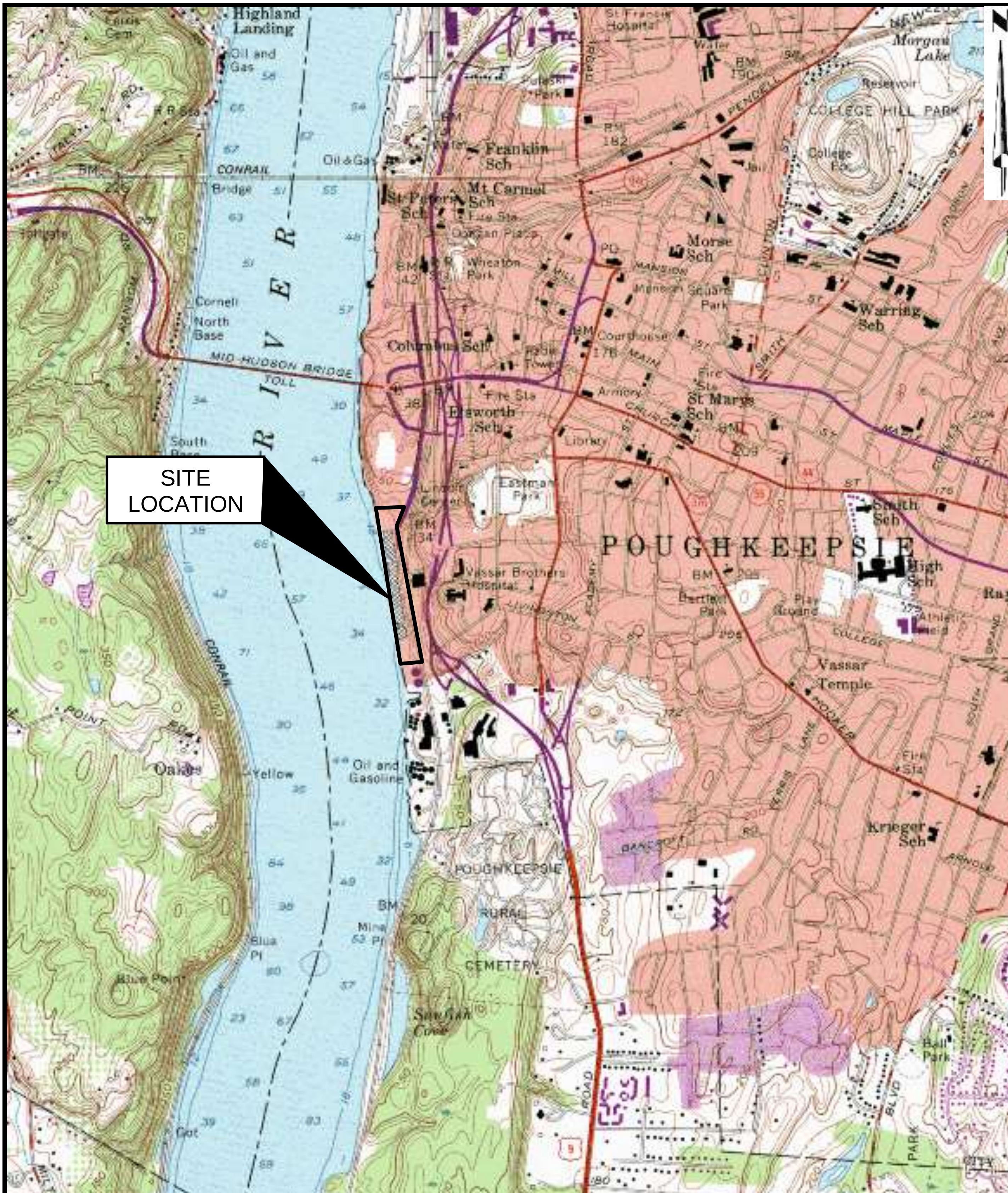
Based on the removal of contaminated soil and other contaminant sources, and post-remediation soil sampling, as described in the Final Engineering Report for the Site, the remedy has achieved the remedial action objectives (RAOs) for soil. Provided the Institutional Controls and Engineering Controls established for the Site remain in place and are maintained, it is expected that the remedy will continue to be effective in the protection of human health and the environment.

The results of groundwater sampling conducted in July 2016 (described in detail in Section 3.2) indicate that the remedy continues to be effective in achieving the RAOs for groundwater.

Recommendations

It is recommended that the current institutional and engineering controls in place at the Site remain in place, and the engineering controls continue to be inspected and monitored. The second round of monitoring did confirm some exceedances of groundwater standards in several monitoring wells. Therefore, it is recommended that the annual groundwater monitoring program continue. No changes to the remedy, and/or monitoring or operation & maintenance plans are recommended at this time.

FIGURES



SOURCE: USGS QUADRANGLES – POUGHKEEPSIE, NEW YORK. (1957, PHOTOINSPECTED 1982).

Not to Scale

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THE DeLAVAL PROPERTY
ENVIRONMENTAL RESTORATION PROJECT
CITY OF POUGHKEEPSIE, NEW YORK

PROJECT NO. 30114

DATE: 2016

SITE LOCATION MAP

FIGURE 1

V:\Projects\ANY\K4\30114\Reports\PRR - 2016\Figures\Figure 1 - Site Location Map.doc

LEGEND

- APPROXIMATE LIMITS AOCS (EXCAVATION AREA LIMITS)
- PROPERTY BOUNDARY
- SITE BOUNDARY
- BULKHEAD LOCATIONS
- RIP RAP REVETMENT
- MONITORING WELL LOCATION — MW–1

- SOIL COVER IN FUTURE GREEN SPACE AREAS: 6 OZ. NON–WOVEN GEOTEXTILE, 12" MIN. SILT/TOPSOIL
- SOIL COVER OVER FUTURE IMPERVIOUS AREAS: 6 OZ. NON–WOVEN GEOTEXTILE, 12" MIN. ITEM 4
- SOIL COVER ON SOUTH EAST SLOPE: GEOGRID, 6" ITEM 4, 6" TOPSOIL
- SOIL COVER OVER FUTURE IMPERVIOUS AREAS w/ POTENTIAL REMAINING ACM: 6 OZ. NON–WOVEN GEOTEXTILE, 24" MIN. ITEM 4
- SOIL COVER OVER FUTURE PERVIOUS AREAS w/ POTENTIAL REMAINING ACM: 6 OZ. NON–WOVEN GEOTEXTILE, 24" MIN. SILT / TOPSOIL

- SOIL COVER IN FUTURE BUILDING PAD AREAS: 6 OZ. NON–WOVEN GEOTEXTILE, > 24" MIN. ITEM 4
- SOIL COVER AT PUMP STATION (INSTALLED PRIOR TO 2008): 6 OZ. NON–WOVEN GEOTEXTILE, 12" MIN. ITEM 4
- SOIL COVER INSTALLED PRIOR TO 2008: 6 OZ. NON–WOVEN GEOTEXTILE, 12" MIN. ITEM 4 & PAVED w/ ASPHALT, OR CONCRETE
- SOIL COVER INSTALLED PRIOR TO 2008: 6 OZ. NON–WOVEN GEOTEXTILE, 12" MIN. ITEM 4 & TOPSOIL AND/OR MULCH
- NO SOIL COVER INSTALLED

KEY PLAN

HUDSON RIVER

ZONE 1 = 381± L.F.
ANCHORED BULKHEAD
(SOUTHERN 50' ZONE 1 IS REVETMENT ONLY)

ZONE 2 = 848± L.F.
RIPRAP REVETMENT

ZONE 3 = 658± L.F.
CANTILEVERED BULKHEAD

FUTURE LANDS TO BE ACQUIRED BY THE CITY OF POUGHKEEPSIE

SEE DETAIL 3, FIGURE 7 FOR BACKFILL BETWEEN BULKHEAD & DEADMAN

SEE DETAIL 4, FIGURE 7 FOR SOIL COVER AROUND LIGHT POLE BASES

AOC–1

AOC–2/3

MW–1

MW–2

MW–3

MW–4

MW–5

MW–8

SEE DETAIL 1, FIGURE 7

SEE DETAIL 2, FIGURE 7

LOVE/EFFRON PROPERTY

RET. WALL

N/F CONRAIL CORP.

RAILROAD TRACKS

AOC–5

AOC–4A

MATCHLINE FIGURE 6B

ROUTE 9

STATE OF NEW YORK
MICHAEL E. HOLLOWOOD
LICENSED PROFESSIONAL ENGINEER
068351

0 100 200
SCALE IN FEET

CHA
441 South Salina Street · Syracuse, NY 13202-4712
Main: (315) 471-3920 · www.chacompanies.com

THE DeLAVAL PROPERTY
ENVIRONMENTAL RESTORATION PROGRAM PROJECT
CITY OF POUGHKEEPSIE, NY

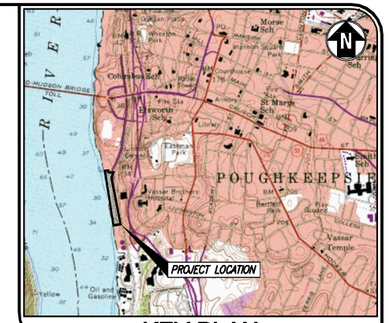
SOIL COVER SYSTEM & MONITORING WELL LOCATION MAP

PROJECT NO. 30114

DATE: JULY 2015

FIGURE 2A

MATCHLINE FIGURE 6A



KEY PLAN

WAVE ATTENUATOR

DOCK

DOCK

MARINA

HUDSON RIVER

ZONE 3 = 658± L.F.
CANTILEVERED BULKHEAD

ZONE 4 = 730± L.F.
RIPRAP REVETMENT

ZONE 5 = 311± L.F.
RIPRAP REVETMENT W/ LIVE STAKE PLANTINGS

FUTURE LANDS TO BE ACQUIRED BY THE CITY OF POUGHKEEPSIE

KAAL ROCK PARK

WALKWAY

MW-6

SEE DETAIL 2, FIGURE 7

MW-7

MW-9

DeLAVAL PROPERTY

N/F
CITY OF POUGHKEEPSIE
AKA "PUMP STATION SITE"

HYD

BENCHMARK
"+" CUT @
N. FLANGE BOLT
ELEV=11.1

THE GRANDVIEW DEVELOPMENT (FORMER STP SITE)

N/F
CITY OF POUGHKEEPSIE
AKA "STP SITE"

RAILROAD TRACKS

AOC-2/3

PINE ST.

RINALDI BLVD.

WESTERLY TERMINUS OF PINE ST.

LEGEND

- APPROXIMATE LIMITS AOCS (EXCAVATION AREA LIMITS)
- PROPERTY BOUNDARY
- SITE BOUNDARY
- BULKHEAD LOCATIONS
- RIP RAP REVETMENT
- MW-1 MONITORING WELL LOCATION
- SOIL COVER IN FUTURE GREEN SPACE AREAS: 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. SILT/TOPSOIL
- SOIL COVER OVER FUTURE IMPERVIOUS AREAS: 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4
- SOIL COVER ON SOUTH EAST SLOPE: GEOGRID, 6" ITEM 4, 6" TOPSOIL
- SOIL COVER OVER FUTURE IMPERVIOUS AREAS w/ POTENTIAL REMAINING ACM: 6 OZ. NON-WOVEN GEOTEXTILE, 24" MIN. ITEM 4
- SOIL COVER OVER FUTURE PERVIOUS AREAS w/ POTENTIAL REMAINING ACM: 6 OZ. NON-WOVEN GEOTEXTILE, 24" MIN. SILT / TOPSOIL
- SOIL COVER IN FUTURE BUILDING PAD AREAS: 6 OZ. NON-WOVEN GEOTEXTILE, > 24" MIN. ITEM 4
- SOIL COVER AT PUMP STATION (INSTALLED PRIOR TO 2008): 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4
- SOIL COVER INSTALLED PRIOR TO 2008: 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4 & PAVED w/ ASPHALT, OR CONCRETE
- SOIL COVER INSTALLED PRIOR TO 2008: 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4 & TOPSOIL AND/OR MULCH
- NO SOIL COVER INSTALLED

STATE OF NEW YORK
MICHAEL E. HOLLOWOOD
LICENSED PROFESSIONAL ENGINEER
068351

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SCALE IN FEET

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THE DeLAVAL PROPERTY
ENVIRONMENTAL RESTORATION PROGRAM PROJECT
CITY OF POUGHKEEPSIE, NY

PROJECT NO. 30114

DATE: JULY 2015

SOIL COVER SYSTEM & MONITORING WELL LOCATION MAP

FIGURE 2B

APPENDIX A

Institutional & Engineering Controls Certification Forms

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **B00190**

Site Name Hudson River Waterfront-DeLaval Property

Site Address: 202-204 Rinaldi Blvd. Zip Code: 12601-
City/Town: Poughkeepsie (C)
County: Dutchess
Site Acreage: 13.6

Reporting Period: January 24, 2014 to July 25, 2015

	YES	NO
1. Is the information above correct?	☑	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☑
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☑
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☑
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☑

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☑	☐
7. Are all ICs/ECs in place and functioning as designed?	☑	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. B00190 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
131300-6061-43-752749	City of Poughkeepsie	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan O&M Plan

Annual groundwater monitoring
Compliance with the Site Management Plan, including the Excavation Work Plan
Groundwater use restriction
Site use restricted to commercial usage

Box 4

Description of Engineering Controls

Parcel	Engineering Control
131300-6061-43-752749	Vapor Mitigation Cover System Subsurface Barriers Fencing/Access Control

Soil Cover across the site
Two steel-sheet pile bulkheads along the Hudson River
Fencing along the northeast site boundary
Sub-slab depressurization systems for any buildings constructed on-site

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☑	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☑	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. B00190

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I JOSEPH T. KANE (print name) at 62 CIVIC CENTER PLAZA, POUGHKEEPSIE, N.Y. 12601 (print business address),

am certifying as DESIGNATED REPRESENTATIVE (OWNER) (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

08/28/2017
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Scott M. Smith (print name) at 441 South Salina St., Syracuse, NY 13202 (print business address),

am certifying as a Qualified Environmental Professional for the City of Poughkeepsie (Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

(Required for PE)

08/25/18
Date

APPENDIX B

Sitewide Inspection Checklist

SITE-WIDE INSPECTION CHECKLIST

Report No. 002	
Date: 7/13/2016	Time: 11:15AM

Site Name: DeLaval ERP Site	NYSDEC Site No. B00190-3
Address: 202-204 Rinalidi Blvd, Poughkeepsie, NY, 12601	Project No. 30114
Inspector(s): Samantha Miller	Weather: Sunny
Justin King	Temp.: Hi 83F Low
Type of Inspection: ☒ Routine ☐ Post Severe Condition	Time Low Tide: 14:30

SOIL COVER SYSTEM INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
There is no evidence of erosion of cover soils/materials from Site surface.	☒	☐	☐	
There is no evidence of depressions in cover materials.	☒	☐	☐	
There is no evidence of significant cracks in cover materials.	☒	☐	☐	
There is no evidence of exposed or damaged demarcation barrier.	☒	☐	☐	
There is no evidence of vapors or odors emanating from the Site.	☒	☐	☐	

VEGETATIVE INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
Vegetation is well established over greenspace areas.	☒	☐	☐	
There is no evidence of stressed vegetation.	☒	☐	☐	
There is no evidence of bare or thin vegetative cover.	☒	☐	☐	
There is no evidence of overgrowth or areas that need to be mowed.	☒	☐	☐	
There is no evidence of recent areas of excavation or disturbed areas.	☒	☐	☐	

VECTOR INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
No vectors or vector activity (e.g. tracks, droppings, dens, etc.) were observed.	☒	☐	☐	
There was no evidence of damage to the soil cover system due to vector activity.	☒	☐	☐	

DRAINAGE SYSTEM INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
There is no evidence of erosion around drainage structures.	☒	☐	☐	
There is no evidence of settlement of drainage structures	☒	☐	☐	
Manhole covers present & in good condition.	☒	☐	☐	
There is no evidence of siltation, debris, or other restrictions in the manholes.	☒	☐	☐	
There are no exposed or damaged weep hole extension along retaining wall.	☒	☐	☐	
The backflow preventers in the 36-inch outfall manhole are present/functional.	☒	☐	☐	

SITE-WIDE INSPECTION CHECKLIST

Report No. 002	
Date: 7/13/2016	Time: 11:15AM

BULKHEAD INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
There is no evidence of significant movement or deflections of bulkheads.	☒	☐	☐	Some minor spalling was observed
There is no evidence of damage to the sheet piles through impacts from boats, ice, etc.	☒	☐	☐	
There is no evidence of leaks from interlocks.	☒	☐	☐	
There is no evidence of significant coating damage.	☒	☐	☐	
There is no evidence of significant corrosion.	☒	☐	☐	
There is no significant damage to the precast caps (e.g. cracks, spalling, etc.).	☒	☐	☐	
There is no evidence of scour, erosion, cracks, or settlement behind the bulkheads.	☒	☐	☐	
There is no evidence of a loss of toe protection stone from the front of the bulkheads (to extent visible at surface).	☒	☐	☐	
There is no visible evidence of sheen in the vicinity of the bulkheads.	☒	☐	☐	
There is no evidence of significant damage to the stormwater outfalls or associated concrete collars.	☒	☐	☐	
There is no evidence of flow restriction at the outfalls	☒	☐	☐	
There is no evidence of sheen emanating from the outfalls	☒	☐	☐	

REVETMENT INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
There are no large voids or evidence of significant stone loss in revetment areas.	☒	☐	☐	
There is no evidence of significant settlement of the revetment sections.	☒	☐	☐	
The concrete headwalls are in-place and in good condition.	☒	☐	☐	
There is no evidence of flow restriction at the outfalls	☒	☐	☐	
There is no evidence of sheen emanating from the outfalls	☒	☐	☐	

MONITORING WELL INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
The monitoring wells are in generally good condition.	☐	☒	☐	Protective casings are not installed on any of the wells. MW4 moves around below grade, no water.
Well caps are installed on the wells.	☒	☐	☐	Except gauging wells
Locks present and secured.	☐	☐	☒	No Locks

SITE ACCESSIBILITY INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS

SITE-WIDE INSPECTION CHECKLIST

Report No. 002	
Date: 7/13/2016	Time: 11:15AM

Site accessible and passable.	☒	☐	☐	New chain link fence

INSTITUTIONAL CONTROL INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
The Site continues to be utilized for commercial and passive recreational uses only.	☒	☐	☐	
There is no evidence of groundwater extraction and/or use on Site.	☒	☐	☐	

ADDITIONAL NOTES & OBSERVATIONS

The site is currently being used for the storage of modular homes in conjunction with the construction site down the street. Silt fence has fallen in all locations it was placed.

Signature: Samantha Miller

Total Inspection Time: 1.5 hrs

APPENDIX C

Site Photographs

Photograph 1. Looking towards the southwestern side of the site.

Photograph 2. Looking toward the southeastern side of the site.

www.chacompanies.com

SITE PHOTOGRAPHS

DeLaval Property
202-204 Rinaldi Boulevard
CITY OF POUGHKEEPSIE
COUNTY OF DUTCHESS STATE OF NEW YORK

PROJECT NO.
30114

PHOTOGRAPHS
TAKEN: 07/2016

Photograph 3. Looking at the south end of the site.

Photograph 4. Looking towards the north end of the site.

www.chacompanies.com

SITE PHOTOGRAPHS

DeLaval Property
202-204 Rinaldi Boulevard
CITY OF POUGHKEEPSIE
COUNTY OF DUTCHESS STATE OF NEW YORK

PROJECT NO.
30114

PHOTOGRAPHS
TAKEN: 07/2016

Photograph 5. Looking towards the northwest side of the site.

Photograph 6. Monitoring Well 4.

www.chacompanies.com

SITE PHOTOGRAPHS

DeLaval Property
202-204 Rinaldi Boulevard
CITY OF POUGHKEEPSIE
COUNTY OF DUTCHESS STATE OF NEW YORK

PROJECT NO. 30114

PHOTOGRAPHS TAKEN: 07/2016

Photograph 7. Fallen silt fence on the south end of the site.

Photograph 8. Minor spallilng on bulkhead caps.

SITE PHOTOGRAPHS

DeLaval Property
202-204 Rinaldi Boulevard
CITY OF POUGHKEEPSIE
COUNTY OF DUTCHESS STATE OF NEW YORK

PROJECT NO.
30114

PHOTOGRAPHS
TAKEN: 07/2016

Photograph 9. Northern bulkhead looking south.

Photograph 10. Southern bulkhead looking south.

SITE PHOTOGRAPHS

DeLaval Property
202-204 Rinaldi Boulevard
CITY OF POUGHKEEPSIE
COUNTY OF DUTCHESS STATE OF NEW YORK

PROJECT NO.
30114

PHOTOGRAPHS
TAKEN: 07/2016

APPENDIX D

Groundwater Sampling Logs

Appendix D.1

Depth to Groundwater Measurements

DeLaval Property - July 2016 Groundwater Sampling Event
CHA Project No.: 30114

Well ID	Measuring Point	Measurement Time	Depth To Water (ft.)	Gas Reading	Comments
MW-1	TOR	10:30	6.96	0.0 ppm	No NAPL observed.
MW-2	TOR	10:35	7.21	0.0 ppm	No NAPL observed.
MW-3	TOR	10:45	10.38	0.0 ppm	No NAPL observed.
MW-4	TOR				Well appears to be broken
MW-5	TOR	10:15	6.71	0.0 ppm	No NAPL observed.
MW-6	TOR	9:15	6.67	0.0 ppm	No NAPL observed.
MW-7	TOR	9:30	11.26	0.0 ppm	No NAPL observed.
MW-8	TOR	9:25	12.12	0.0 ppm	No NAPL observed.
MW-9	TOR	10:10	10.64	0.0 ppm	No NAPL observed.

Appendix D.2

Sampling Summary

DeLaval Property - July 2016 Groundwater Sampling Event
CHA Project No.: 30114

Well ID	Sampling Date	Sampling Method	Sampling Time	Sampling Analyses	# Of Bottles	QA/QC Sample Id	QA/QC Sample Time
MW-1	7/12/2016	Submersible-Low Flow	11:38	VOCs, SVOCs, PCBs, Metals	8		
MW-2	7/12/2016	Submersible-Low Flow	13:15	VOCs, SVOCs, PCBs, Metals	8+8	CHA-1	12:30
MW-4							
MW-5	7/13/2016	Submersible-Low Flow	9:20	VOCs, SVOCs, PCBs, Metals	8		
MW-6	7/12/2016	Submersible-Low Flow	15:55	VOCs, SVOCs, PCBs, Metals	8		
MW-8	7/13/2016	Submersible-Low Flow	8:45	VOCs, SVOCs, PCBs, Metals	8		
MW-9	7/13/2016	Submersible-Low Flow	10:20	VOCs, SVOCs, PCBs, Metals	8		

Appendix D.3

Sample Purging Summary

DeLaval Property - July 2016 Groundwater Sampling Event
CHA Project No.: 30114

Well ID	Start Time	Total Volume Purged (gal.)	Time	ORP/EH (mV)	PH	Conductivity (ms/cm)	DO (mg/L)	Turbidity (NTU)	Temperature (°C)	Depth To Water (ft.)	Description
MW-1	11:00	4	11:02	-227.0	8.16	0.690	1.19	1000	22.93	7.16	Water was slightly black with a slight sheen, was mildly turbid with no odor, or effervescence.
			11:08	-210.0	7.88	0.712	0.93	735	22.45	7.23	
			11:13	-210.0	7.83	0.727	0.78	585	21.38	7.25	
			11:19	-209.0	7.78	0.725	0.68	666	22.18	7.23	
			11:24	-212.0	8.02	0.729	0.63	461	22.53	7.27	
			11:29	-209.0	7.75	0.727	0.57	381	22.45	7.27	
			11:36	-214.0	7.79	0.727	0.53	236	23.77	7.28	
MW-2	13:30	4.5	13:33	30.0	7.21	1.090	8.30	>1000	22.14	8.04	Water was light brown with no odor, sheen or effervescence.
			13:38	36.0	7.22	1.030	7.37	>1000	22.05	8.08	
			13:44	33.0	7.28	1.040	6.73	>1000	22.75	8.13	
			13:50	31.0	7.25	1.020	6.17	610	22.94	8.00	
			13:55	25.0	7.29	1.040	5.98	708.0	23.03	8.07	
			13:59	26.0	7.32	1.020	5.62	261	22.99	8.07	
			14:04	19.0	7.32	1.010	5.24	>1000	23.02	8.05	
			14:09	16.0	7.31	1.030	4.90	470	23.32	8.07	
MW-4		Minimal water (less than 12-inches), unable to purge or sample. Monitoring well appears to be broken.									
MW-5	14:53	0.25	14:55	46.0	7.18	0.395	>1000	0.82	23.33	10.83	Water was clear and colorless with no odor, sheen or effervescence. Purged dry at 15:00 on 7/12/2016.
MW-6	15:20	4	15:21	-6.0	7.43	0.368	0.62	1000	23.31	9.00	Water was clear and colorless with no odor, sheen or effervescence.
			15:26	0.0	7.47	0.368	0.66	641	24.18	8.68	
			15:32	25.0	7.47	0.365	1.94	186	23.94	10.04	
			15:37	28.0	7.36	0.363	2.04	127	23.76	10.14	
			15:42	17.0	7.52	0.364	2.78	66.2	23.88	10.27	
			15:47	14.0	7.58	0.365	2.63	60.5	23.91	10.22	
			15:52	9.0	7.64	0.366	2.62	45.7	23.90	10.15	
MW-8	8:20	4	8:22	176.0	6.85	0.681	4.79	>1000	17.56	12.52	Water was light tan and mildly turbid with no odor, sheen or effervescence.
			8:27	130.0	6.89	0.680	4.04	>1000	17.29	12.64	
			8:32	154.0	6.94	0.681	3.47	951	17.12	12.68	
			8:37	154.0	6.95	0.679	3.03	314	17.35	12.58	
			8:42	154.0	6.90	0.679	2.74	203	17.39	12.56	
MW-9	9:55	4	9:57	196.0	7.07	1.000	2.42	533	17.03	10.45	Water was light tan and mildly turbid with no odor, sheen or effervescence.
			10:02	192.0	7.19	0.886	3.19	305	16.22	10.81	
			10:05	185.0	7.26	0.736	4.54	61.5	16.32	10.80	
			10:13	176.0	7.29	0.693	5.13	61	16.13	10.80	
			10:18	173.0	7.24	0.671	5.27	71.2	16.33	10.80	

APPENDIX E

Waste Disposal Documentation

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC

24-Hour Emergency Phone Number 1-800-843-8265

Please print or type

BILL OF LADING

1. Document

3. Generator's Name and Mailing Address
CHA
62 CIVIC CENTER PLAZA
POUGHKEEPSIE NY 12602

Site Address
POUGHKEEPSIE N

4. Generator's Phone (315) 471-3920

5. Transporter 1 Company Name
ENVIRONMENTAL PRODUCTS & SVCS OF THE ...

6.

A. State Transporter's ID 4756 NY

B. Transporter 1 Phone

7. Transporter 2 Company Name

8.

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
ENVIRONMENTAL PROD & SVCS OF VT, INC
... STATE FAIR BLVD

10.

E. State Facility's ID

Facility's Phone

HM

11. Shipping Name	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-RCRA, NON-DOT, LIQUIDS, N.O.S. (IDW MONITORING WELL WATER)	1	DM	35	
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

a. APP#0916103-OT, 01 X 35 GAL

b.

c.

d. JOB # ~~119049~~ 76412

15. Special Handling Instructions and Additional Information
1)

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this document are not subject to federal manifest requirements.

Printed/Typed Name	Signature	Month	Day	Year
JOSEPH T. KANE	[signature]	07	03	2017

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Kenneth W. Mills	Kenneth W. Mills	06	03	07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR TRANSPORTER FACILITY

BILL OF LADING

APPENDIX F

Laboratory Analytical Report

ANALYTICAL REPORT

Lab Number:	L1621632
Client:	CHA Companies 441 South Salina Street Syracuse, NY 13202
ATTN:	Samantha Miller
Phone:	(315) 471-3920
Project Name:	DELAVAL GROUNDWATER
Project Number:	30114.1002.31000
Report Date:	07/22/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1621632-01	MW-1	WATER	NY	07/12/16 11:38	07/13/16
L1621632-02	MW-6	WATER	NY	07/12/16 15:55	07/13/16
L1621632-03	MW-2	WATER	NY	07/12/16 13:15	07/13/16
L1621632-04	CHA-1	WATER	NY	07/12/16 12:30	07/13/16
L1621632-05	MW-8	WATER	NY	07/13/16 08:45	07/13/16
L1621632-06	MW-5	WATER	NY	07/13/16 09:20	07/13/16
L1621632-07	MW-9	WATER	NY	07/13/16 10:20	07/13/16
L1621632-08	WC-1	WATER	NY	07/13/16 10:35	07/13/16
L1621632-09	TRIP BLANK	WATER	NY	07/13/16 00:00	07/13/16

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000
Lab Number: L1621632
Report Date: 07/22/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	DELAVAL GROUNDWATER	**Lab Number:**	L1621632
Project Number:	30114.1002.31000	**Report Date:**	07/22/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1621632-08: The sample has elevated detection limits due to the dilution required by the sample matrix.

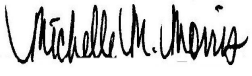
Semivolatile Organics

L1621632-01: The sample has elevated detection limits due to the dilution required by the sample matrix.

Semivolatile Organics by SIM

L1621632-01, -04, -06 and -08: The sample has elevated detection limits due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative Date: 07/22/16

ORGANICS

VOLATILES

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-01
Client ID: MW-1
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/17/16 01:42
Analyst: PD

Date Collected: 07/12/16 11:38
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	1.2	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-01 Date Collected: 07/12/16 11:38

Client ID: MW-1 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	1.1	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-02
Client ID: MW-6
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/17/16 02:14
Analyst: PD

Date Collected: 07/12/16 15:55
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	1.4	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-02 Date Collected: 07/12/16 15:55

Client ID: MW-6 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	1.5	J	ug/l	2.5	0.70	1
o-Xylene	0.85	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.3	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-03
Client ID: MW-2
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/17/16 02:47
Analyst: PD

Date Collected: 07/12/16 13:15
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	0.86	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-03 Date Collected: 07/12/16 13:15

Client ID: MW-2 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	0.83	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-04
Client ID: CHA-1
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/17/16 21:28
Analyst: PD

Date Collected: 07/12/16 12:30
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	0.74	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-04 Date Collected: 07/12/16 12:30

Client ID: CHA-1 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	0.73	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-05
Client ID: MW-8
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/17/16 21:56
Analyst: PD

Date Collected: 07/13/16 08:45
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-05 Date Collected: 07/13/16 08:45

Client ID: MW-8 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-06
Client ID: MW-5
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/17/16 22:24
Analyst: PD

Date Collected: 07/13/16 09:20
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.16	J	ug/l	0.50	0.16	1
Toluene	1.4	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-06 Date Collected: 07/13/16 09:20

Client ID: MW-5 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	1.3	J	ug/l	2.5	0.70	1
o-Xylene	0.91	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	15		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-07
Client ID: MW-9
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/17/16 22:52
Analyst: PD

Date Collected: 07/13/16 10:20
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-07 Date Collected: 07/13/16 10:20

Client ID: MW-9 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-08 D
Client ID: WC-1
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/18/16 10:20
Analyst: KD

Date Collected: 07/13/16 10:35
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	ND		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	2.9	20
Benzene	ND		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	ND		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	2.8	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20
Trichloroethene	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-08 D Date Collected: 07/13/16 10:35

Client ID: WC-1 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	50	14.	20
p/m-Xylene	ND		ug/l	50	14.	20
o-Xylene	ND		ug/l	50	14.	20
cis-1,2-Dichloroethene	ND		ug/l	50	14.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	ND		ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Isopropylbenzene	ND		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
Methyl Acetate	ND		ug/l	40	4.7	20
Cyclohexane	ND		ug/l	200	5.4	20
1,4-Dioxane	ND		ug/l	5000	820	20
Freon-113	ND		ug/l	50	14.	20
Methyl cyclohexane	ND		ug/l	200	7.9	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	93		70-130

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-09
Client ID: TRIP BLANK
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/17/16 20:59
Analyst: PD

Date Collected: 07/13/16 00:00
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-09 Date Collected: 07/13/16 00:00

Client ID: TRIP BLANK Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.9	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/16/16 17:29
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG914625-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000
Lab Number: L1621632
Report Date: 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/16/16 17:29
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG914625-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000
Lab Number: L1621632
Report Date: 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/16/16 17:29
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG914625-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	97		70-130

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/16 20:31
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-07,09 Batch: WG914628-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000
Lab Number: L1621632
Report Date: 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/16 20:31
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-07,09 Batch: WG914628-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000
Lab Number: L1621632
Report Date: 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/16 20:31
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-07,09 Batch: WG914628-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	95		70-130

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/18/16 09:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG914671-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000
Lab Number: L1621632
Report Date: 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/18/16 09:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG914671-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000
Lab Number: L1621632
Report Date: 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/18/16 09:39
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG914671-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG914625-3 WG914625-4								
Methylene chloride	100		99		70-130	1		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	110		100		70-130	10		20
2-Chloroethylvinyl ether	74		110		70-130	**39**	Q	20
Carbon tetrachloride	100		97		63-132	3		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	110		100		63-130	10		20
1,1,2-Trichloroethane	120		120		70-130	0		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	100		96		62-150	4		20
1,2-Dichloroethane	100		99		70-130	1		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	110		100		67-130	10		20
trans-1,3-Dichloropropene	100		96		70-130	4		20
cis-1,3-Dichloropropene	95		92		70-130	3		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	120		120		54-136	0		20
1,1,2,2-Tetrachloroethane	120		120		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	110		110		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG914625-3 WG914625-4								
Ethylbenzene	120		110		70-130	9		20
Chloromethane	77		70		64-130	10		20
Bromomethane	86		77		39-139	11		20
Vinyl chloride	92		87		55-140	6		20
Chloroethane	93		90		55-138	3		20
1,1-Dichloroethene	110		98		61-145	12		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	110		110		63-130	0		20
p/m-Xylene	115		110		70-130	4		20
o-Xylene	115		110		70-130	4		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	110		100		70-130	10		20
1,2,3-Trichloropropane	120		120		64-130	0		20
Acrylonitrile	97		100		70-130	3		20
Isopropyl Ether	100		99		70-130	1		20
tert-Butyl Alcohol	92		90		70-130	2		20
Styrene	115		115		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG914625-3 WG914625-4								
Dichlorodifluoromethane	81		76		36-147	6		20
Acetone	96		92		58-148	4		20
Carbon disulfide	92		84		51-130	9		20
2-Butanone	96		100		63-138	4		20
Vinyl acetate	84		84		70-130	0		20
4-Methyl-2-pentanone	110		110		59-130	0		20
2-Hexanone	120		120		57-130	0		20
Acrolein	87		87		40-160	0		20
Bromochloromethane	110		100		70-130	10		20
2,2-Dichloropropane	98		93		63-133	5		20
1,2-Dibromoethane	120		120		70-130	0		20
1,3-Dichloropropane	120		110		70-130	9		20
1,1,1,2-Tetrachloroethane	120		120		64-130	0		20
Bromobenzene	110		110		70-130	0		20
n-Butylbenzene	120		110		53-136	9		20
sec-Butylbenzene	120		110		70-130	9		20
tert-Butylbenzene	120		110		70-130	9		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	110		110		41-144	0		20
Hexachlorobutadiene	120		120		63-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG914625-3 WG914625-4								
Isopropylbenzene	120		120		70-130	0		20
p-Isopropyltoluene	120		110		70-130	9		20
Naphthalene	110		110		70-130	0		20
n-Propylbenzene	120		120		69-130	0		20
1,2,3-Trichlorobenzene	120		120		70-130	0		20
1,2,4-Trichlorobenzene	120		110		70-130	9		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	120		110		70-130	9		20
Methyl Acetate	90		78		70-130	14		20
Ethyl Acetate	96		95		70-130	1		20
Cyclohexane	110		100		70-130	10		20
Ethyl-Tert-Butyl-Ether	110		100		70-130	10		20
Tertiary-Amyl Methyl Ether	110		100		66-130	10		20
1,4-Dioxane	112		120		56-162	7		20
Freon-113	110		100		70-130	10		20
1,4-Diethylbenzene	120		110		70-130	9		20
4-Ethyltoluene	120		120		70-130	0		20
1,2,4,5-Tetramethylbenzene	120		110		70-130	9		20
Tetrahydrofuran	87		88		58-130	1		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	110		100		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG914625-3 WG914625-4								
Iodomethane	**37**	Q	**42**	Q	70-130	13		20
Methyl cyclohexane	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	98		100		70-130
Dibromofluoromethane	100		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07,09 Batch: WG914628-3 WG914628-4								
Methylene chloride	88		97		70-130	10		20
1,1-Dichloroethane	91		100		70-130	9		20
Chloroform	91		100		70-130	9		20
2-Chloroethylvinyl ether	**68**	Q	79		70-130	15		20
Carbon tetrachloride	88		100		63-132	13		20
1,2-Dichloropropane	92		100		70-130	8		20
Dibromochloromethane	79		90		63-130	13		20
1,1,2-Trichloroethane	83		94		70-130	12		20
Tetrachloroethene	90		100		70-130	11		20
Chlorobenzene	93		100		75-130	7		20
Trichlorofluoromethane	83		95		62-150	13		20
1,2-Dichloroethane	85		95		70-130	11		20
1,1,1-Trichloroethane	88		99		67-130	12		20
Bromodichloromethane	85		95		67-130	11		20
trans-1,3-Dichloropropene	79		91		70-130	14		20
cis-1,3-Dichloropropene	83		93		70-130	11		20
1,1-Dichloropropene	90		100		70-130	11		20
Bromoform	73		90		54-136	**21**	Q	20
1,1,2,2-Tetrachloroethane	81		96		67-130	17		20
Benzene	89		100		70-130	12		20
Toluene	91		100		70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07,09 Batch: WG914628-3 WG914628-4								
Ethylbenzene	94		100		70-130	6		20
Chloromethane	80		91		64-130	13		20
Bromomethane	67		68		39-139	1		20
Vinyl chloride	78		88		55-140	12		20
Chloroethane	82		93		55-138	13		20
1,1-Dichloroethene	82		93		61-145	13		20
trans-1,2-Dichloroethene	87		98		70-130	12		20
Trichloroethene	90		100		70-130	11		20
1,2-Dichlorobenzene	90		100		70-130	11		20
1,3-Dichlorobenzene	93		100		70-130	7		20
1,4-Dichlorobenzene	91		100		70-130	9		20
Methyl tert butyl ether	76		90		63-130	17		20
p/m-Xylene	95		105		70-130	10		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	89		100		70-130	12		20
Dibromomethane	81		90		70-130	11		20
1,2,3-Trichloropropane	82		96		64-130	16		20
Acrylonitrile	81		90		70-130	11		20
Isopropyl Ether	90		100		70-130	11		20
tert-Butyl Alcohol	98		118		70-130	19		20
Styrene	90		100		70-130	11		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07,09 Batch: WG914628-3 WG914628-4								
Dichlorodifluoromethane	75		85		36-147	13		20
Acetone	96		100		58-148	4		20
Carbon disulfide	72		82		51-130	13		20
2-Butanone	90		100		63-138	11		20
Vinyl acetate	81		92		70-130	13		20
4-Methyl-2-pentanone	78		90		59-130	14		20
2-Hexanone	77		89		57-130	14		20
Acrolein	79		87		40-160	10		20
Bromochloromethane	86		95		70-130	10		20
2,2-Dichloropropane	87		100		63-133	14		20
1,2-Dibromoethane	81		90		70-130	11		20
1,3-Dichloropropane	84		96		70-130	13		20
1,1,1,2-Tetrachloroethane	87		100		64-130	14		20
Bromobenzene	87		97		70-130	11		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		110		70-130	10		20
tert-Butylbenzene	85		92		70-130	8		20
o-Chlorotoluene	97		100		70-130	3		20
p-Chlorotoluene	94		100		70-130	6		20
1,2-Dibromo-3-chloropropane	69		82		41-144	17		20
Hexachlorobutadiene	98		110		63-130	12		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07,09 Batch: WG914628-3 WG914628-4								
Isopropylbenzene	94		100		70-130	6		20
p-Isopropyltoluene	98		100		70-130	2		20
Naphthalene	72		81		70-130	12		20
n-Propylbenzene	98		110		69-130	12		20
1,2,3-Trichlorobenzene	84		95		70-130	12		20
1,2,4-Trichlorobenzene	87		96		70-130	10		20
1,3,5-Trimethylbenzene	96		100		64-130	4		20
1,2,4-Trimethylbenzene	93		99		70-130	6		20
Methyl Acetate	79		92		70-130	15		20
Ethyl Acetate	81		95		70-130	16		20
Cyclohexane	95		110		70-130	15		20
Ethyl-Tert-Butyl-Ether	83		96		70-130	15		20
Tertiary-Amyl Methyl Ether	77		90		66-130	16		20
1,4-Dioxane	82		100		56-162	20		20
Freon-113	88		98		70-130	11		20
1,4-Diethylbenzene	96		100		70-130	4		20
4-Ethyltoluene	95		100		70-130	5		20
1,2,4,5-Tetramethylbenzene	95		100		70-130	5		20
Tetrahydrofuran	73		97		58-130	**28**	Q	20
Ethyl ether	76		89		59-134	16		20
trans-1,4-Dichloro-2-butene	75		87		70-130	15		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-07,09 Batch: WG914628-3 WG914628-4								
Iodomethane	**39**	Q	**49**	Q	70-130	**23**	Q	20
Methyl cyclohexane	97		110		70-130	13		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	95		95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG914671-3 WG914671-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
2-Chloroethylvinyl ether	**60**	Q	**63**	Q	70-130	5		20
Carbon tetrachloride	85		84		63-132	1		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	110		120		70-130	9		20
Tetrachloroethene	94		95		70-130	1		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	73		71		62-150	3		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	93		95		70-130	2		20
cis-1,3-Dichloropropene	91		93		70-130	2		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	74		77		54-136	4		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	110		100		70-130	10		20
Toluene	110		110		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG914671-3 WG914671-4								
Ethylbenzene	110		110		70-130	0		20
Chloromethane	100		100		64-130	0		20
Bromomethane	79		72		39-139	9		20
Vinyl chloride	94		93		55-140	1		20
Chloroethane	73		72		55-138	1		20
1,1-Dichloroethene	94		91		61-145	3		20
trans-1,2-Dichloroethene	98		96		70-130	2		20
Trichloroethene	98		97		70-130	1		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	98		99		70-130	1		20
Methyl tert butyl ether	110		110		63-130	0		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	100		99		70-130	1		20
Dibromomethane	95		96		70-130	1		20
1,2,3-Trichloropropane	120		120		64-130	0		20
Acrylonitrile	120		120		70-130	0		20
Isopropyl Ether	120		120		70-130	0		20
tert-Butyl Alcohol	**134**	Q	**140**	Q	70-130	4		20
Styrene	115		115		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG914671-3 WG914671-4								
Dichlorodifluoromethane	62		60		36-147	3		20
Acetone	110		110		58-148	0		20
Carbon disulfide	100		98		51-130	2		20
2-Butanone	100		120		63-138	18		20
Vinyl acetate	100		100		70-130	0		20
4-Methyl-2-pentanone	110		120		59-130	9		20
2-Hexanone	100		110		57-130	10		20
Acrolein	90		95		40-160	5		20
Bromochloromethane	90		90		70-130	0		20
2,2-Dichloropropane	94		94		63-133	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	120		120		70-130	0		20
1,1,1,2-Tetrachloroethane	99		100		64-130	1		20
Bromobenzene	95		96		70-130	1		20
n-Butylbenzene	120		120		53-136	0		20
sec-Butylbenzene	110		120		70-130	9		20
tert-Butylbenzene	93		93		70-130	0		20
o-Chlorotoluene	120		120		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	90		94		41-144	4		20
Hexachlorobutadiene	110		110		63-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG914671-3 WG914671-4								
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	100		110		70-130	10		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	130		**140**	Q	70-130	7		20
1,2,4-Trichlorobenzene	120		120		70-130	0		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
Methyl Acetate	110		120		70-130	9		20
Ethyl Acetate	110		110		70-130	0		20
Cyclohexane	110		110		70-130	0		20
Ethyl-Tert-Butyl-Ether	120		120		70-130	0		20
Tertiary-Amyl Methyl Ether	97		100		66-130	3		20
1,4-Dioxane	124		124		56-162	0		20
Freon-113	88		86		70-130	2		20
1,4-Diethylbenzene	100		100		70-130	0		20
4-Ethyltoluene	110		120		70-130	9		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Tetrahydrofuran	120		130		58-130	8		20
Ethyl ether	93		84		59-134	10		20
trans-1,4-Dichloro-2-butene	82		87		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG914671-3 WG914671-4								
Iodomethane	**34**	Q	**37**	Q	70-130	8		20
Methyl cyclohexane	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		101		70-130
Toluene-d8	108		109		70-130
4-Bromofluorobenzene	109		110		70-130
Dibromofluoromethane	97		96		70-130

SEMIVOLATILES

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-01 D
Client ID: MW-1
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/22/16 13:20
Analyst: RC

Date Collected: 07/12/16 11:38
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	10	3.3	5
3,3'-Dichlorobenzidine	ND		ug/l	25	7.0	5
2,4-Dinitrotoluene	ND		ug/l	25	4.2	5
2,6-Dinitrotoluene	ND		ug/l	25	5.6	5
4-Chlorophenyl phenyl ether	ND		ug/l	10	3.1	5
4-Bromophenyl phenyl ether	ND		ug/l	10	3.6	5
Bis(2-chloroisopropyl)ether	ND		ug/l	10	3.5	5
Bis(2-chloroethoxy)methane	ND		ug/l	25	3.1	5
Hexachlorocyclopentadiene	ND		ug/l	100	39.	5
Isophorone	ND		ug/l	25	3.0	5
Nitrobenzene	ND		ug/l	10	3.8	5
NDPA/DPA	ND		ug/l	10	3.2	5
n-Nitrosodi-n-propylamine	ND		ug/l	25	3.5	5
Bis(2-ethylhexyl)phthalate	ND		ug/l	15	4.6	5
Butyl benzyl phthalate	ND		ug/l	25	6.3	5
Di-n-butylphthalate	ND		ug/l	25	3.4	5
Di-n-octylphthalate	ND		ug/l	25	5.7	5
Diethyl phthalate	ND		ug/l	25	3.1	5
Dimethyl phthalate	ND		ug/l	25	3.2	5
Biphenyl	ND		ug/l	10	3.8	5
4-Chloroaniline	ND		ug/l	25	3.2	5
2-Nitroaniline	ND		ug/l	25	5.7	5
3-Nitroaniline	ND		ug/l	25	5.7	5
4-Nitroaniline	ND		ug/l	25	6.5	5
Dibenzofuran	ND		ug/l	10	3.3	5
1,2,4,5-Tetrachlorobenzene	ND		ug/l	50	3.3	5
Acetophenone	ND		ug/l	25	4.2	5
2,4,6-Trichlorophenol	ND		ug/l	25	3.4	5
p-Chloro-m-cresol	ND		ug/l	10	3.1	5
2-Chlorophenol	ND		ug/l	10	3.2	5

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-01 D Date Collected: 07/12/16 11:38

Client ID: MW-1 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4-Dichlorophenol	ND		ug/l	25	3.8	5
2,4-Dimethylphenol	ND		ug/l	25	8.2	5
2-Nitrophenol	ND		ug/l	50	7.6	5
4-Nitrophenol	ND		ug/l	50	8.8	5
2,4-Dinitrophenol	ND		ug/l	100	27.	5
4,6-Dinitro-o-cresol	ND		ug/l	50	10.	5
Phenol	ND		ug/l	25	9.4	5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6	5
2,4,5-Trichlorophenol	ND		ug/l	25	3.6	5
Carbazole	ND		ug/l	10	3.1	5
Atrazine	ND		ug/l	50	9.2	5
Benzaldehyde	ND		ug/l	25	5.4	5
Caprolactam	ND		ug/l	50	18.	5
2,3,4,6-Tetrachlorophenol	ND		ug/l	25	4.6	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	24		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	29		10-120
4-Terphenyl-d14	89		41-149

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-01 D
Client ID: MW-1
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/18/16 19:21
Analyst: KV

Date Collected: 07/12/16 11:38
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.39	J	ug/l	0.50	0.18	5
2-Chloronaphthalene	ND		ug/l	1.0	0.18	5
Fluoranthene	4.2		ug/l	1.0	0.19	5
Hexachlorobutadiene	ND		ug/l	2.5	0.18	5
Naphthalene	0.28	J	ug/l	1.0	0.22	5
Benzo(a)anthracene	1.6		ug/l	1.0	0.08	5
Benzo(a)pyrene	1.5		ug/l	1.0	0.20	5
Benzo(b)fluoranthene	2.0		ug/l	1.0	0.08	5
Benzo(k)fluoranthene	0.72	J	ug/l	1.0	0.21	5
Chrysene	1.6		ug/l	1.0	0.19	5
Acenaphthylene	0.38	J	ug/l	1.0	0.18	5
Anthracene	0.76	J	ug/l	1.0	0.18	5
Benzo(ghi)perylene	0.83	J	ug/l	1.0	0.21	5
Fluorene	0.36	J	ug/l	1.0	0.18	5
Phenanthrene	2.9		ug/l	1.0	0.08	5
Dibenzo(a,h)anthracene	0.24	J	ug/l	1.0	0.20	5
Indeno(1,2,3-cd)pyrene	0.97	J	ug/l	1.0	0.20	5
Pyrene	3.4		ug/l	1.0	0.20	5
2-Methylnaphthalene	ND		ug/l	1.0	0.22	5
Pentachlorophenol	ND		ug/l	4.0	1.1	5
Hexachlorobenzene	ND		ug/l	4.0	0.16	5
Hexachloroethane	ND		ug/l	4.0	0.15	5

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-01 D Date Collected: 07/12/16 11:38

Client ID: MW-1 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	88		41-149

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-02
Client ID: MW-6
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/16 06:11
Analyst: MW

Date Collected: 07/12/16 15:55
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.1	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-02 Date Collected: 07/12/16 15:55

Client ID: MW-6 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
Atrazine	ND		ug/l	10	1.8	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	3.6	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	82		41-149

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-02
Client ID: MW-6
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/17/16 08:23
Analyst: KV

Date Collected: 07/12/16 15:55
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.10		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.14	J	ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.19	J	ug/l	0.20	0.04	1
Benzo(a)anthracene	0.06	J	ug/l	0.20	0.02	1
Benzo(a)pyrene	0.05	J	ug/l	0.20	0.04	1
Benzo(b)fluoranthene	0.06	J	ug/l	0.20	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04	1
Chrysene	0.05	J	ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	ND		ug/l	0.20	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.04	1
Fluorene	0.04	J	ug/l	0.20	0.04	1
Phenanthrene	0.07	J	ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04	1
Pyrene	0.14	J	ug/l	0.20	0.04	1
2-Methylnaphthalene	0.11	J	ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-02 Date Collected: 07/12/16 15:55

Client ID: MW-6 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	71		41-149

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-03
Client ID: MW-2
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/16 06:38
Analyst: MW

Date Collected: 07/12/16 13:15
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.1	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-03 Date Collected: 07/12/16 13:15

Client ID: MW-2 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
Atrazine	ND		ug/l	10	1.8	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	3.6	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	88		41-149

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-03
Client ID: MW-2
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/17/16 08:53
Analyst: KV

Date Collected: 07/12/16 13:15
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.28		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.07	J	ug/l	0.20	0.04	1
Benzo(a)anthracene	0.16	J	ug/l	0.20	0.02	1
Benzo(a)pyrene	0.14	J	ug/l	0.20	0.04	1
Benzo(b)fluoranthene	0.19	J	ug/l	0.20	0.02	1
Benzo(k)fluoranthene	0.06	J	ug/l	0.20	0.04	1
Chrysene	0.14	J	ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	0.04	J	ug/l	0.20	0.04	1
Benzo(ghi)perylene	0.10	J	ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	0.09	J	ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	0.11	J	ug/l	0.20	0.04	1
Pyrene	0.24		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-03 Date Collected: 07/12/16 13:15

Client ID: MW-2 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	72		41-149

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-04
Client ID: CHA-1
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/16 07:04
Analyst: MW

Date Collected: 07/12/16 12:30
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.1	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-04 Date Collected: 07/12/16 12:30

Client ID: CHA-1 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
Atrazine	ND		ug/l	10	1.8	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	3.6	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	49		10-120
4-Terphenyl-d14	81		41-149

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-04 D
Client ID: CHA-1
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/18/16 19:51
Analyst: KV

Date Collected: 07/12/16 12:30
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.50	0.18	5
2-Chloronaphthalene	ND		ug/l	1.0	0.18	5
Fluoranthene	4.6		ug/l	1.0	0.19	5
Hexachlorobutadiene	ND		ug/l	2.5	0.18	5
Naphthalene	ND		ug/l	1.0	0.22	5
Benzo(a)anthracene	2.2		ug/l	1.0	0.08	5
Benzo(a)pyrene	2.0		ug/l	1.0	0.20	5
Benzo(b)fluoranthene	2.9		ug/l	1.0	0.08	5
Benzo(k)fluoranthene	0.95	J	ug/l	1.0	0.21	5
Chrysene	2.0		ug/l	1.0	0.19	5
Acenaphthylene	0.34	J	ug/l	1.0	0.18	5
Anthracene	0.59	J	ug/l	1.0	0.18	5
Benzo(ghi)perylene	1.1		ug/l	1.0	0.21	5
Fluorene	0.18	J	ug/l	1.0	0.18	5
Phenanthrene	1.6		ug/l	1.0	0.08	5
Dibenzo(a,h)anthracene	0.38	J	ug/l	1.0	0.20	5
Indeno(1,2,3-cd)pyrene	1.4		ug/l	1.0	0.20	5
Pyrene	3.6		ug/l	1.0	0.20	5
2-Methylnaphthalene	ND		ug/l	1.0	0.22	5
Pentachlorophenol	ND		ug/l	4.0	1.1	5
Hexachlorobenzene	ND		ug/l	4.0	0.16	5
Hexachloroethane	ND		ug/l	4.0	0.15	5

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-04 D
Client ID: CHA-1
Sample Location: NY

Date Collected: 07/12/16 12:30
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	27		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	70		41-149

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-05
Client ID: MW-8
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/16 07:31
Analyst: MW

Date Collected: 07/13/16 08:45
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.1	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-05 Date Collected: 07/13/16 08:45

Client ID: MW-8 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
Atrazine	ND		ug/l	10	1.8	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	3.6	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	87		41-149

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-05
Client ID: MW-8
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/17/16 09:24
Analyst: KV

Date Collected: 07/13/16 08:45
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.08	J	ug/l	0.20	0.04	1
Benzo(a)anthracene	ND		ug/l	0.20	0.02	1
Benzo(a)pyrene	ND		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04	1
Chrysene	ND		ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	ND		ug/l	0.20	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	ND		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04	1
Pyrene	ND		ug/l	0.20	0.04	1
2-Methylnaphthalene	0.09	J	ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-05 Date Collected: 07/13/16 08:45

Client ID: MW-8 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	70		41-149

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-06
Client ID: MW-5
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/16 07:57
Analyst: MW

Date Collected: 07/13/16 09:20
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.1	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-06 Date Collected: 07/13/16 09:20

Client ID: MW-5 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
Atrazine	ND		ug/l	10	1.8	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	3.6	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	21		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	28		10-120
4-Terphenyl-d14	87		41-149

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-06 D
Client ID: MW-5
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/18/16 18:51
Analyst: KV

Date Collected: 07/13/16 09:20
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.19	J	ug/l	0.20	0.07	2
2-Chloronaphthalene	ND		ug/l	0.40	0.07	2
Fluoranthene	4.4		ug/l	0.40	0.08	2
Hexachlorobutadiene	ND		ug/l	1.0	0.07	2
Naphthalene	1.2		ug/l	0.40	0.09	2
Benzo(a)anthracene	1.8		ug/l	0.40	0.03	2
Benzo(a)pyrene	1.7		ug/l	0.40	0.08	2
Benzo(b)fluoranthene	2.6		ug/l	0.40	0.03	2
Benzo(k)fluoranthene	0.86		ug/l	0.40	0.08	2
Chrysene	1.9		ug/l	0.40	0.08	2
Acenaphthylene	0.49		ug/l	0.40	0.07	2
Anthracene	0.68		ug/l	0.40	0.07	2
Benzo(ghi)perylene	1.2		ug/l	0.40	0.08	2
Fluorene	0.35	J	ug/l	0.40	0.07	2
Phenanthrene	2.5		ug/l	0.40	0.03	2
Dibenzo(a,h)anthracene	0.34	J	ug/l	0.40	0.08	2
Indeno(1,2,3-cd)pyrene	1.4		ug/l	0.40	0.08	2
Pyrene	3.6		ug/l	0.40	0.08	2
2-Methylnaphthalene	0.21	J	ug/l	0.40	0.09	2
Pentachlorophenol	ND		ug/l	1.6	0.44	2
Hexachlorobenzene	ND		ug/l	1.6	0.06	2
Hexachloroethane	ND		ug/l	1.6	0.06	2

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-06 D Date Collected: 07/13/16 09:20

Client ID: MW-5 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	21		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	43		10-120
4-Terphenyl-d14	96		41-149

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-07
Client ID: MW-9
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/16 17:19
Analyst: HL

Date Collected: 07/13/16 10:20
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	1.2	J	ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.1	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-07 Date Collected: 07/13/16 10:20

Client ID: MW-9 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
Atrazine	ND		ug/l	10	1.8	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	3.6	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	98		41-149

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-07
Client ID: MW-9
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/17/16 09:54
Analyst: KV

Date Collected: 07/13/16 10:20
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.10	J	ug/l	0.20	0.04	1
Benzo(a)anthracene	ND		ug/l	0.20	0.02	1
Benzo(a)pyrene	ND		ug/l	0.20	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04	1
Chrysene	ND		ug/l	0.20	0.04	1
Acenaphthylene	ND		ug/l	0.20	0.04	1
Anthracene	ND		ug/l	0.20	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.04	1
Fluorene	ND		ug/l	0.20	0.04	1
Phenanthrene	ND		ug/l	0.20	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04	1
Pyrene	ND		ug/l	0.20	0.04	1
2-Methylnaphthalene	ND		ug/l	0.20	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-07 Date Collected: 07/13/16 10:20

Client ID: MW-9 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	26		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	71		41-149

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-08
Client ID: WC-1
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/21/16 17:43
Analyst: HL

Date Collected: 07/13/16 10:35
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	3.4		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.1	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-08 Date Collected: 07/13/16 10:35

Client ID: WC-1 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
Atrazine	ND		ug/l	10	1.8	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Caprolactam	ND		ug/l	10	3.6	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	71		41-149

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-08 D
Client ID: WC-1
Sample Location: NY
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/18/16 18:22
Analyst: KV

Date Collected: 07/13/16 10:35
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.10	J	ug/l	0.20	0.07	2
2-Chloronaphthalene	ND		ug/l	0.40	0.07	2
Fluoranthene	0.44		ug/l	0.40	0.08	2
Hexachlorobutadiene	ND		ug/l	1.0	0.07	2
Naphthalene	0.10	J	ug/l	0.40	0.09	2
Benzo(a)anthracene	0.20	J	ug/l	0.40	0.03	2
Benzo(a)pyrene	0.26	J	ug/l	0.40	0.08	2
Benzo(b)fluoranthene	0.30	J	ug/l	0.40	0.03	2
Benzo(k)fluoranthene	0.10	J	ug/l	0.40	0.08	2
Chrysene	0.19	J	ug/l	0.40	0.08	2
Acenaphthylene	0.09	J	ug/l	0.40	0.07	2
Anthracene	0.11	J	ug/l	0.40	0.07	2
Benzo(ghi)perylene	0.15	J	ug/l	0.40	0.08	2
Fluorene	0.08	J	ug/l	0.40	0.07	2
Phenanthrene	0.27	J	ug/l	0.40	0.03	2
Dibenzo(a,h)anthracene	ND		ug/l	0.40	0.08	2
Indeno(1,2,3-cd)pyrene	0.18	J	ug/l	0.40	0.08	2
Pyrene	0.38	J	ug/l	0.40	0.08	2
2-Methylnaphthalene	ND		ug/l	0.40	0.09	2
Pentachlorophenol	ND		ug/l	1.6	0.44	2
Hexachlorobenzene	ND		ug/l	1.6	0.06	2
Hexachloroethane	ND		ug/l	1.6	0.06	2

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-08 D Date Collected: 07/13/16 10:35

Client ID: WC-1 Date Received: 07/13/16

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	68		41-149

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000
Lab Number: L1621632
Report Date: 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/18/16 15:49
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG914216-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Isophorone	ND		ug/l	5.0	0.60
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63
Dimethyl phthalate	ND		ug/l	5.0	0.65
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.1
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000
Lab Number: L1621632
Report Date: 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/18/16 15:49
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG914216-1					
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Phenol	ND		ug/l	5.0	1.9
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Carbazole	ND		ug/l	2.0	0.63
Atrazine	ND		ug/l	10	1.8
Caprolactam	ND		ug/l	10	3.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	92		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	102		41-149

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000
Lab Number: L1621632
Report Date: 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/17/16 13:04
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-08 Batch: WG914217-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.20	0.04
Benzo(a)anthracene	ND		ug/l	0.20	0.02
Benzo(a)pyrene	ND		ug/l	0.20	0.04
Benzo(b)fluoranthene	ND		ug/l	0.20	0.02
Benzo(k)fluoranthene	ND		ug/l	0.20	0.04
Chrysene	ND		ug/l	0.20	0.04
Acenaphthylene	ND		ug/l	0.20	0.04
Anthracene	ND		ug/l	0.20	0.04
Benzo(ghi)perylene	ND		ug/l	0.20	0.04
Fluorene	ND		ug/l	0.20	0.04
Phenanthrene	ND		ug/l	0.20	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	0.04
Pyrene	ND		ug/l	0.20	0.04
2-Methylnaphthalene	ND		ug/l	0.20	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/17/16 13:04
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 07/16/16 09:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-08 Batch: WG914217-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	82		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG914216-2 WG914216-3								
Benzidine	**1**	Q	**1**	Q	10-75	24		30
1,2,4-Trichlorobenzene	84		80		39-98	5		30
Bis(2-chloroethyl)ether	88		87		40-140	1		30
1,2-Dichlorobenzene	78		77		40-140	1		30
1,3-Dichlorobenzene	79		78		40-140	1		30
1,4-Dichlorobenzene	78		77		36-97	1		30
3,3'-Dichlorobenzidine	78		77		40-140	1		30
2,4-Dinitrotoluene	**100**	Q	**99**	Q	24-96	1		30
2,6-Dinitrotoluene	101		98		40-140	3		30
Azobenzene	98		97		40-140	1		30
4-Chlorophenyl phenyl ether	93		89		40-140	4		30
4-Bromophenyl phenyl ether	94		94		40-140	0		30
Bis(2-chloroisopropyl)ether	86		84		40-140	2		30
Bis(2-chloroethoxy)methane	96		92		40-140	4		30
Hexachlorocyclopentadiene	69		67		40-140	3		30
Isophorone	95		93		40-140	2		30
Nitrobenzene	94		90		40-140	4		30
NitrosoDiPhenylAmine(NDPA)/DPA	93		92		40-140	1		30
n-Nitrosodi-n-propylamine	97		94		29-132	3		30
Bis(2-Ethylhexyl)phthalate	96		94		40-140	2		30
Butyl benzyl phthalate	98		94		40-140	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG914216-2 WG914216-3								
Di-n-butylphthalate	99		94		40-140	5		30
Di-n-octylphthalate	100		96		40-140	4		30
Diethyl phthalate	94		91		40-140	3		30
Dimethyl phthalate	95		92		40-140	3		30
Biphenyl	96		92		40-140	4		30
4-Chloroaniline	68		57		40-140	18		30
2-Nitroaniline	104		100		52-143	4		30
3-Nitroaniline	87		80		25-145	8		30
4-Nitroaniline	86		83		51-143	4		30
Dibenzofuran	94		92		40-140	2		30
1,2,4,5-Tetrachlorobenzene	89		86		2-134	3		30
Acetophenone	98		95		39-129	3		30
n-Nitrosodimethylamine	46		44		22-74	4		30
2,4,6-Trichlorophenol	99		98		30-130	1		30
P-Chloro-M-Cresol	**101**	Q	**99**	Q	23-97	2		30
2-Chlorophenol	87		87		27-123	0		30
2,4-Dichlorophenol	100		97		30-130	3		30
2,4-Dimethylphenol	66		56		30-130	16		30
2-Nitrophenol	100		102		30-130	2		30
4-Nitrophenol	60		62		10-80	3		30
2,4-Dinitrophenol	90		86		20-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG914216-2 WG914216-3								
4,6-Dinitro-o-cresol	94		93		20-164	1		30
Phenol	42		42		12-110	0		30
2-Methylphenol	77		77		30-130	0		30
3-Methylphenol/4-Methylphenol	77		76		30-130	1		30
2,4,5-Trichlorophenol	100		99		30-130	1		30
Benzoic Acid	40		52		10-164	26		30
Benzyl Alcohol	83		77		26-116	8		30
Carbazole	100		96		55-144	4		30
Parathion, ethyl	118		117		40-140	1		30
Atrazine	105		106		40-140	1		30
Caprolactam	33		28		10-130	16		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	54		57		21-120
Phenol-d6	39		43		10-120
Nitrobenzene-d5	93		92		23-120
2-Fluorobiphenyl	91		91		15-120
2,4,6-Tribromophenol	94		94		10-120
4-Terphenyl-d14	93		93		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 Batch: WG914217-2 WG914217-3								
Acenaphthene	79		88		37-111	11		40
2-Chloronaphthalene	84		90		40-140	7		40
Fluoranthene	82		91		40-140	10		40
Hexachlorobutadiene	70		78		40-140	11		40
Naphthalene	74		82		40-140	10		40
Benzo(a)anthracene	84		96		40-140	13		40
Benzo(a)pyrene	77		88		40-140	13		40
Benzo(b)fluoranthene	80		88		40-140	10		40
Benzo(k)fluoranthene	77		84		40-140	9		40
Chrysene	76		86		40-140	12		40
Acenaphthylene	91		97		40-140	6		40
Anthracene	82		92		40-140	11		40
Benzo(ghi)perylene	76		85		40-140	11		40
Fluorene	82		90		40-140	9		40
Phenanthrene	74		83		40-140	11		40
Dibenzo(a,h)anthracene	82		95		40-140	15		40
Indeno(1,2,3-cd)pyrene	82		90		40-140	9		40
Pyrene	74		84		26-127	13		40
1-Methylnaphthalene	80		87		40-140	8		40
2-Methylnaphthalene	78		86		40-140	10		40
Pentachlorophenol	86		99		9-103	14		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 Batch: WG914217-2 WG914217-3								
Hexachlorobenzene	76		89		40-140	16		40
Hexachloroethane	72		78		40-140	8		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	36		44		21-120
Phenol-d6	23		29		10-120
Nitrobenzene-d5	63		75		23-120
2-Fluorobiphenyl	75		78		15-120
2,4,6-Tribromophenol	94		108		10-120
4-Terphenyl-d14	80		88		41-149

PCBS

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID:	L1621632-01	Date Collected:	07/12/16 11:38
Client ID:	MW-1	Date Received:	07/13/16
Sample Location:	NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	07/16/16 16:11
Analytical Date:	07/17/16 20:36	Cleanup Method:	EPA 3665A
Analyst:	JW	Cleanup Date:	07/16/16
		Cleanup Method:	EPA 3660B
		Cleanup Date:	07/16/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	ND		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	**27**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	36		30-150	B

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-02
Client ID: MW-6
Sample Location: NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/17/16 20:49
Analyst: JW

Date Collected: 07/12/16 15:55
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 16:11
Cleanup Method: EPA 3665A
Cleanup Date: 07/16/16
Cleanup Method: EPA 3660B
Cleanup Date: 07/16/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	0.091		ug/l	0.083	0.032	1	B
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	0.091		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-03
Client ID: MW-2
Sample Location: NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/17/16 21:03
Analyst: JW

Date Collected: 07/12/16 13:15
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 16:11
Cleanup Method: EPA 3665A
Cleanup Date: 07/16/16
Cleanup Method: EPA 3660B
Cleanup Date: 07/16/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	0.082	J	ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	0.082	J	ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID:	L1621632-04	Date Collected:	07/12/16 12:30
Client ID:	CHA-1	Date Received:	07/13/16
Sample Location:	NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	07/16/16 16:11
Analytical Date:	07/17/16 21:16	Cleanup Method:	EPA 3665A
Analyst:	JW	Cleanup Date:	07/16/16
		Cleanup Method:	EPA 3660B
		Cleanup Date:	07/16/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	0.066	J	ug/l	0.083	0.032	1	B
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	0.066	J	ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID:	L1621632-05	Date Collected:	07/13/16 08:45
Client ID:	MW-8	Date Received:	07/13/16
Sample Location:	NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	07/16/16 16:11
Analytical Date:	07/17/16 21:30	Cleanup Method:	EPA 3665A
Analyst:	JW	Cleanup Date:	07/16/16
		Cleanup Method:	EPA 3660B
		Cleanup Date:	07/16/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	0.062	J	ug/l	0.083	0.032	1	B
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	0.062	J	ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID:	L1621632-06	Date Collected:	07/13/16 09:20
Client ID:	MW-5	Date Received:	07/13/16
Sample Location:	NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	07/16/16 16:11
Analytical Date:	07/17/16 21:44	Cleanup Method:	EPA 3665A
Analyst:	JW	Cleanup Date:	07/16/16
		Cleanup Method:	EPA 3660B
		Cleanup Date:	07/16/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	0.176		ug/l	0.083	0.032	1	B
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	0.176		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID:	L1621632-07	Date Collected:	07/13/16 10:20
Client ID:	MW-9	Date Received:	07/13/16
Sample Location:	NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	07/16/16 16:11
Analytical Date:	07/17/16 21:58	Cleanup Method:	EPA 3665A
Analyst:	JW	Cleanup Date:	07/16/16
		Cleanup Method:	EPA 3660B
		Cleanup Date:	07/16/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	ND		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-08
Client ID: WC-1
Sample Location: NY
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 07/17/16 22:39
Analyst: JW

Date Collected: 07/13/16 10:35
Date Received: 07/13/16
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/16/16 16:11
Cleanup Method: EPA 3665A
Cleanup Date: 07/17/16
Cleanup Method: EPA 3660B
Cleanup Date: 07/17/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	0.077	J	ug/l	0.083	0.032	1	B
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	0.077	J	ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000
Lab Number: L1621632
Report Date: 07/22/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/18/16 00:29
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 07/16/16 16:11
Cleanup Method: EPA 3665A
Cleanup Date: 07/16/16
Cleanup Method: EPA 3660B
Cleanup Date: 07/16/16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-08 Batch: WG914288-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A
PCBs, Total	ND		ug/l	0.083	0.029	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-08 Batch: WG914288-2 WG914288-3									
Aroclor 1016	100		96		40-140	4		50	A
Aroclor 1260	89		89		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		70		30-150	A
Decachlorobiphenyl	72		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		71		30-150	B
Decachlorobiphenyl	65		62		30-150	B

METALS

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-01
Client ID: MW-1
Sample Location: NY
Matrix: Water

Date Collected: 07/12/16 11:38
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0288		mg/l	0.0050	0.0020	1	07/15/16 09:50	07/19/16 00:27	EPA 3005A	1,6010C	AB
Barium, Total	0.529		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:27	EPA 3005A	1,6010C	AB
Cadmium, Total	0.0007	J	mg/l	0.0050	0.0007	1	07/15/16 09:50	07/19/16 15:01	EPA 3005A	1,6010C	PS
Chromium, Total	0.016		mg/l	0.010	0.0020	1	07/15/16 09:50	07/19/16 00:27	EPA 3005A	1,6010C	AB
Lead, Total	0.0550		mg/l	0.0100	0.0020	1	07/15/16 09:50	07/19/16 00:27	EPA 3005A	1,6010C	AB
Mercury, Total	0.00010	J	mg/l	0.00020	0.00006	1	07/15/16 13:47	07/15/16 20:13	EPA 7470A	1,7470A	EA
Selenium, Total	0.0550		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:27	EPA 3005A	1,6010C	AB
Silver, Total	ND		mg/l	0.0070	0.0020	1	07/15/16 09:50	07/19/16 00:27	EPA 3005A	1,6010C	AB

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-02
Client ID: MW-6
Sample Location: NY
Matrix: Water

Date Collected: 07/12/16 15:55
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0094		mg/l	0.0050	0.0020	1	07/15/16 09:50	07/18/16 22:48	EPA 3005A	1,6010C	AB
Barium, Total	0.0699		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/18/16 22:48	EPA 3005A	1,6010C	AB
Cadmium, Total	0.0007	J	mg/l	0.0050	0.0007	1	07/15/16 09:50	07/18/16 22:48	EPA 3005A	1,6010C	AB
Chromium, Total	0.0063	J	mg/l	0.010	0.0020	1	07/15/16 09:50	07/18/16 22:48	EPA 3005A	1,6010C	AB
Lead, Total	0.0570		mg/l	0.0100	0.0020	1	07/15/16 09:50	07/18/16 22:48	EPA 3005A	1,6010C	AB
Mercury, Total	0.00020		mg/l	0.00020	0.00006	1	07/15/16 13:47	07/15/16 20:15	EPA 7470A	1,7470A	EA
Selenium, Total	0.0270		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/18/16 22:48	EPA 3005A	1,6010C	AB
Silver, Total	ND		mg/l	0.0070	0.0020	1	07/15/16 09:50	07/18/16 22:48	EPA 3005A	1,6010C	AB

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-03
Client ID: MW-2
Sample Location: NY
Matrix: Water

Date Collected: 07/12/16 13:15
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0097		mg/l	0.0050	0.0020	1	07/15/16 09:50	07/19/16 00:31	EPA 3005A	1,6010C	AB
Barium, Total	0.0885		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:31	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.0050	0.0007	1	07/15/16 09:50	07/19/16 15:05	EPA 3005A	1,6010C	PS
Chromium, Total	0.0060	J	mg/l	0.0100	0.0020	1	07/15/16 09:50	07/19/16 00:31	EPA 3005A	1,6010C	AB
Lead, Total	0.0617		mg/l	0.0100	0.0020	1	07/15/16 09:50	07/19/16 00:31	EPA 3005A	1,6010C	AB
Mercury, Total	0.00013	J	mg/l	0.00020	0.00006	1	07/15/16 13:47	07/15/16 20:16	EPA 7470A	1,7470A	EA
Selenium, Total	0.0645		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:31	EPA 3005A	1,6010C	AB
Silver, Total	ND		mg/l	0.0070	0.0020	1	07/15/16 09:50	07/19/16 00:31	EPA 3005A	1,6010C	AB

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-04
Client ID: CHA-1
Sample Location: NY
Matrix: Water

Date Collected: 07/12/16 12:30
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0418		mg/l	0.0050	0.0020	1	07/15/16 09:50	07/19/16 00:36	EPA 3005A	1,6010C	AB
Barium, Total	0.569		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:36	EPA 3005A	1,6010C	AB
Cadmium, Total	0.0062		mg/l	0.0050	0.0007	1	07/15/16 09:50	07/19/16 15:10	EPA 3005A	1,6010C	PS
Chromium, Total	0.048		mg/l	0.010	0.0020	1	07/15/16 09:50	07/19/16 00:36	EPA 3005A	1,6010C	AB
Lead, Total	1.07		mg/l	0.0100	0.0020	1	07/15/16 09:50	07/19/16 00:36	EPA 3005A	1,6010C	AB
Mercury, Total	0.00103		mg/l	0.00020	0.00006	1	07/15/16 13:47	07/15/16 20:18	EPA 7470A	1,7470A	EA
Selenium, Total	0.539		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:36	EPA 3005A	1,6010C	AB
Silver, Total	ND		mg/l	0.0070	0.0020	1	07/15/16 09:50	07/19/16 00:36	EPA 3005A	1,6010C	AB

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-05
Client ID: MW-8
Sample Location: NY
Matrix: Water

Date Collected: 07/13/16 08:45
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0074		mg/l	0.0050	0.0020	1	07/15/16 09:50	07/19/16 00:40	EPA 3005A	1,6010C	AB
Barium, Total	0.0687		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:40	EPA 3005A	1,6010C	AB
Cadmium, Total	0.0038	J	mg/l	0.0050	0.0007	1	07/15/16 09:50	07/19/16 00:40	EPA 3005A	1,6010C	AB
Chromium, Total	0.0074	J	mg/l	0.0100	0.0020	1	07/15/16 09:50	07/19/16 00:40	EPA 3005A	1,6010C	AB
Lead, Total	0.0034	J	mg/l	0.0100	0.0020	1	07/15/16 09:50	07/19/16 00:40	EPA 3005A	1,6010C	AB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	07/15/16 13:47	07/15/16 20:20	EPA 7470A	1,7470A	EA
Selenium, Total	0.0211		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:40	EPA 3005A	1,6010C	AB
Silver, Total	ND		mg/l	0.0070	0.0020	1	07/15/16 09:50	07/19/16 00:40	EPA 3005A	1,6010C	AB

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-06
Client ID: MW-5
Sample Location: NY
Matrix: Water

Date Collected: 07/13/16 09:20
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0432		mg/l	0.0050	0.0020	1	07/15/16 09:50	07/19/16 00:44	EPA 3005A	1,6010C	AB
Barium, Total	0.726		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:44	EPA 3005A	1,6010C	AB
Cadmium, Total	0.0055		mg/l	0.0050	0.0007	1	07/15/16 09:50	07/19/16 15:14	EPA 3005A	1,6010C	PS
Chromium, Total	0.091		mg/l	0.010	0.0020	1	07/15/16 09:50	07/19/16 00:44	EPA 3005A	1,6010C	AB
Lead, Total	1.18		mg/l	0.0100	0.0020	1	07/15/16 09:50	07/19/16 00:44	EPA 3005A	1,6010C	AB
Mercury, Total	0.00285		mg/l	0.00020	0.00006	1	07/15/16 13:47	07/15/16 20:22	EPA 7470A	1,7470A	EA
Selenium, Total	0.284		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:44	EPA 3005A	1,6010C	AB
Silver, Total	0.0062	J	mg/l	0.0070	0.0020	1	07/15/16 09:50	07/19/16 00:44	EPA 3005A	1,6010C	AB

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-07
Client ID: MW-9
Sample Location: NY
Matrix: Water

Date Collected: 07/13/16 10:20
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0100		mg/l	0.0050	0.0020	1	07/15/16 09:50	07/19/16 00:49	EPA 3005A	1,6010C	AB
Barium, Total	0.0580		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:49	EPA 3005A	1,6010C	AB
Cadmium, Total	0.0031	J	mg/l	0.0050	0.0007	1	07/15/16 09:50	07/19/16 00:49	EPA 3005A	1,6010C	AB
Chromium, Total	0.019		mg/l	0.010	0.0020	1	07/15/16 09:50	07/19/16 00:49	EPA 3005A	1,6010C	AB
Lead, Total	0.0055	J	mg/l	0.0100	0.0020	1	07/15/16 09:50	07/19/16 00:49	EPA 3005A	1,6010C	AB
Mercury, Total	0.00009	J	mg/l	0.00020	0.00006	1	07/15/16 13:47	07/15/16 20:24	EPA 7470A	1,7470A	EA
Selenium, Total	0.291		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:49	EPA 3005A	1,6010C	AB
Silver, Total	ND		mg/l	0.0070	0.0020	1	07/15/16 09:50	07/19/16 00:49	EPA 3005A	1,6010C	AB

Project Name: DELAVAL GROUNDWATER
Lab Number: L1621632
Project Number: 30114.1002.31000
Report Date: 07/22/16

SAMPLE RESULTS

Lab ID: L1621632-08
Client ID: WC-1
Sample Location: NY
Matrix: Water

Date Collected: 07/13/16 10:35
Date Received: 07/13/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.0354		mg/l	0.0050	0.0020	1	07/15/16 09:50	07/19/16 00:53	EPA 3005A	1,6010C	AB
Barium, Total	0.358		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:53	EPA 3005A	1,6010C	AB
Cadmium, Total	0.0032	J	mg/l	0.0050	0.0007	1	07/15/16 09:50	07/19/16 00:53	EPA 3005A	1,6010C	AB
Chromium, Total	0.0140		mg/l	0.0100	0.0020	1	07/15/16 09:50	07/19/16 00:53	EPA 3005A	1,6010C	AB
Lead, Total	0.162		mg/l	0.0100	0.0020	1	07/15/16 09:50	07/19/16 00:53	EPA 3005A	1,6010C	AB
Mercury, Total	0.00025		mg/l	0.00020	0.00006	1	07/15/16 13:47	07/15/16 20:26	EPA 7470A	1,7470A	EA
Selenium, Total	0.299		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/19/16 00:53	EPA 3005A	1,6010C	AB
Silver, Total	ND		mg/l	0.0070	0.0020	1	07/15/16 09:50	07/19/16 00:53	EPA 3005A	1,6010C	AB

Project Name: DELAVAL GROUNDWATER **Lab Number:** L1621632

Project Number: 30114.1002.31000 **Report Date:** 07/22/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG913843-1										
Arsenic, Total	0.0049	J	mg/l	0.0050	0.0020	1	07/15/16 09:50	07/18/16 23:35	1,6010C	AB
Barium, Total	ND		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/18/16 23:35	1,6010C	AB
Cadmium, Total	ND		mg/l	0.0050	0.0007	1	07/15/16 09:50	07/18/16 23:35	1,6010C	AB
Chromium, Total	ND		mg/l	0.010	0.0020	1	07/15/16 09:50	07/18/16 23:35	1,6010C	AB
Lead, Total	ND		mg/l	0.0100	0.0020	1	07/15/16 09:50	07/18/16 23:35	1,6010C	AB
Selenium, Total	ND		mg/l	0.0100	0.0030	1	07/15/16 09:50	07/18/16 23:35	1,6010C	AB
Silver, Total	ND		mg/l	0.0070	0.0020	1	07/15/16 09:50	07/18/16 23:35	1,6010C	AB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG913980-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	07/15/16 13:47	07/15/16 19:58	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL GROUNDWATER

Project Number: 30114.1002.31000

Lab Number: L1621632

Report Date: 07/22/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG913843-2								
Arsenic, Total	110		-		80-120	-		
Barium, Total	96		-		80-120	-		
Cadmium, Total	108		-		80-120	-		
Chromium, Total	95		-		80-120	-		
Lead, Total	102		-		80-120	-		
Selenium, Total	115		-		80-120	-		
Silver, Total	101		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG913980-2								
Mercury, Total	116		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG913843-4 QC Sample: L1621632-02 Client ID: MW-6												
Arsenic, Total	0.0094	0.12	0.135	105		-	-		75-125	-		20
Barium, Total	0.0699	2	1.99	96		-	-		75-125	-		20
Cadmium, Total	0.0007J	0.051	0.0545	107		-	-		75-125	-		20
Chromium, Total	0.0063J	0.2	0.20	100		-	-		75-125	-		20
Lead, Total	0.0570	0.51	0.563	99		-	-		75-125	-		20
Selenium, Total	0.0270	0.12	0.169	118		-	-		75-125	-		20
Silver, Total	ND	0.05	0.0504	101		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG913980-4 QC Sample: L1621668-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00536	107		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG913843-3 QC Sample: L1621632-02 Client ID: MW-6						
Arsenic, Total	0.0094	0.0111	mg/l	17		20
Barium, Total	0.0699	0.0689	mg/l	1		20
Cadmium, Total	0.0007J	ND	mg/l	NC		20
Chromium, Total	0.0063J	0.0054J	mg/l	NC		20
Lead, Total	0.0570	0.0572	mg/l	0		20
Selenium, Total	0.0270	0.0281	mg/l	4		20
Silver, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG913980-3 QC Sample: L1621668-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1621632-01A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-01B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-01C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-01D	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-01E	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-01F	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-01G	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-01H	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1621632-02A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-02B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-02C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-02D	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-02E	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-02F	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-02G	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-02H	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1621632-03A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-03B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-03C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-03D	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-03E	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-03F	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1621632-03G	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-03H	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1621632-04A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-04B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-04C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-04D	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-04E	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-04F	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-04G	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-04H	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1621632-05A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-05B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-05C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-05D	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-05E	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-05F	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-05G	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-05H	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1621632-06A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-06B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-06C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-06D	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-06E	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-06F	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-06G	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-06H	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1621632-07A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: DELAVAL GROUNDWATER
Project Number: 30114.1002.31000

Lab Number: L1621632
Report Date: 07/22/16

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1621632-07B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-07C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-07D	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-07E	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-07F	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-07G	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-07H	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1621632-08A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-08B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-08C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-08D	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-08E	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8082-1200ML(7)
L1621632-08F	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-08G	Amber 1000ml unpreserved	A	7	4.6	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1621632-08H	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L1621632-09A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)
L1621632-09B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	DELAVAL GROUNDWATER	**Lab Number:**	L1621632
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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	DELAVAL GROUNDWATER	**Lab Number:**	L1621632
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Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	DELAVAL GROUNDWATER	**Lab Number:**	L1621632
Project Number:	30114.1002.31000	**Report Date:**	07/22/16

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: ***8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:*** Lead***; 8270D:*** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Page 1 of 1

Date Rec'd in Lab: 7/14/16

ALPHA Job #: L1621632 (~~L1621568~~) JK

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Client Information

Client: CHA
Address: 441 South Salina Street
Syracuse, NY 13202
Phone: 315-471-3920
Fax: 315-471-3569
Email: smiller@chacompanies.com

Project Information

Project Name: DeLaval Groundwater
Project Location: NY
Project # 30114.1002.31000
(Use Project name as Project #) ☐
Project Manager: Candace Fox
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other: NA

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTLC-8260	NYTCL-8270	NYTCL-8082	TRCRA8 Metals					Sample Specific Comments	Total Bottles
~~21568~~ 01	MW-1	7/12/2016	1138	Water	SM/JK	X	X	X	X						8
21632-02	MW-6	7/12/2016	1555	Water	SM/JK	X	X	X	X						8
03	MW-2	7/12/2016	1315	Water	SM/JK	X	X	X	X						8
04	CHA-1	7/12/2016	1230	Water	SM/JK	X	X	X	X						8
05	MW-8	7/13/2016	845	Water	SM/JK	X	X	X	X						8
06	MW-5	7/13/2016	920	Water	SM/JK	X	X	X	X						8
07	MW-9	7/13/2016	1020	Water	SM/JK	X	X	X	X						8
08	WC-1	7/13/2016	1035	Water	SM/JK	X	X	X	X						8
				Water		X	X	X	X						8
09	Trip Blank			DI Water		X	X	X	X					Trip Blank	2
						A	A	A	P						
						A	A	A	C						

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Robert O'Hara	7/13/16 1340	Robert O'Hara AHL	7-13-16 13:40
			7/14/16 0900

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)