

2017 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:

***City of Poughkeepsie
62 Civic Center Plaza
Poughkeepsie, NY 12601***

Prepared by:



***III Winners Circle
Albany, NY 12205
Phone: (518) 453-4500
Fax: (518) 453-4773***

January 2018

TABLE OF CONTENTS

1.0	SITE OVERVIEW	1
1.1	Brief Site Background.....	2
1.2	Nature and Extent of Contamination	2
1.3	Summary of Site Remedy	3
2.0	INSTITUTIONAL / ENGINEERING CONTROLS (IC/EC) PLAN COMPLIANCE REPORT	5
2.1	IC/EC Plan Requirements and Compliance Status	5
2.1.1	Inspection of Cover System	5
2.1.2	Inspection of Bulkheads.....	5
2.1.3	Inspection of Riprap Revetment	6
2.1.4	Inspection of Monitoring Well Network.....	6
2.1.5	Sub-Slab Depressurization Systems	7
2.1.6	Other Observations during Site-wide Inspection.....	7
2.2	IC/EC Certification	7
3.0	MONITORING PLAN COMPLIANCE REPORT	9
3.1	Components of the Monitoring Plan.....	9
3.2	Monitoring Completed During Reporting Period	9
3.2.1	Groundwater Monitoring Activities.....	9
3.2.2	Groundwater Monitoring Results	11
3.2.3	Groundwater Monitoring Trends	13
3.3	Compliance with Performance Standards	15
4.0	OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS	16

LIST OF TABLES

Table 3-1	Analytical Summary Table.....	12
Table 3-2	Analytical Comparison Table.....	14

LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Site Plan

LIST OF APPENDICES

Appendix A	Institutional & Engineering Controls Certification Forms
Appendix B	Site-wide Inspection Checklist
Appendix C	Site Photographs
Appendix D	Well Decommissioning Log and Well Construction Logs
Appendix E	Groundwater Sampling Logs
Appendix F	Waste Disposal Documentation
Appendix G	Laboratory Analytical Report

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 The Site has a long history of former industrial use based upon review of available Sanborn Mapping and other historical documents.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 during the fall of 2017.

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 September 28, 2017. 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 July 2016. 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 September 2017 monitoring event indicate that concentrations of the contaminants of concern are below established New York State Groundwater Effluent Limitations and/or Guidance Values (Class GA) with the exception of the following six SVOCs: benzo(a)anthracene; benzo(b)fluoranthene; benzo(a)pyrene; benzo(k)fluoranthene; chrysene; and indeno(1,2,3-cd)pyrene; the following five metals: arsenic, cadmium, chromium, lead, and mercury; 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 fall of 2017.

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 41° 41' 40" N and 73° 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. The site has remained undeveloped since that time.

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 September 28, 2017 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 2018.

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 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 with no evidence of leakage through the interlocks. The concrete collars around the outfalls were also observed to be in good condition. The only 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 originally observed 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

During the 2016 annual monitoring event, CHA noted that the well riser on well MW-4 appeared to be broken. CHA retained Cascade Drilling, LP (Cascade) to decommission well MW-4 and install replacement monitoring well MW-4R in kind, approximately 10 feet to the east. The well decommissioning log for well MW-4 as well as the well construction diagram for well MW-4R are included in Appendix D. Additionally, during this 2017 event, well MW-7 was unable to be found upon inspection. Evidence of a broken PVC pipe was located, but no borehole was identified. At the request of CHA, Cascade subsequently installed replacement monitoring well MW-7R along the

south end of the greenspace area near the original location of well MW-7, in kind. All remaining monitoring wells were observed to be in generally good condition.

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 previously, 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.
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 July 2016.
 - b. 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 September 28 and 29, 2017, 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-4R, MW-5, MW-6, MW-8 and MW-9. In addition, wells MW-3 and MW-7R were gauged and monitored for the presence of LNAPL, but were not sampled. Groundwater monitoring wells are purged to reach stable groundwater conditions, and samples are collected once chemical parameters indicate that the groundwater being purged has reached equilibrium. Given that well MW-4R was installed and subsequently purged dry the previous day, sampling occurred the following day, but water quality parameters were not recorded.

Prior to conducting groundwater level measurements on September 28, 2017, a photoionization 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 8:25 a.m. Water level data were collected between 9:45 a.m. and 11:00 a.m. At each location, the water level was measured from the top of the well riser.

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 (rising water table) along the western portion of the Site when the tide is coming in.

Monitoring wells MW-1, MW-2, MW-4R, MW-5, MW-6, MW-8 and MW-9 were purged and sampled via low-flow/minimal drawdown methods, utilizing a submersible pump and polyethylene tubing. During well purging, at 3 to 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), to the extent practical. 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 E. 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-9. 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.

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

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 September 2017 monitoring event. This is consistent with results from 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 G. 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 one detection of PCBs during this sampling event.

Table 3-1 Analytical Summary Table

LOCATION			MW-1	MW-2	MW-4R	MW-5	MW-6	MW-8	MW-9
SAMPLING DATE	NY-TOGS-GA	Units	9/29/2017	9/29/2017	9/29/2017	9/28/2017	9/28/2017	9/28/2017	9/28/2017
Polychlorinated Biphenyls									
Aroclor 1260	0.09	µg/l	0.083 U	0.083 U	0.083 U	0.233*	0.083 U	0.083 U	0.083 U
Semivolatile Organics									
Benzo(a)anthracene	0.002	µg/l	0.02 J	0.19	0.11	1.7	0.05 J	0.1 U	0.1 U
Benzo(a)pyrene	0	µg/l	0.1 U	0.17	0.09 J	1.9	0.05 J	0.1 U	0.1 U
Benzo(b)fluoranthene	0.002	µg/l	0.1 U	0.23	0.11	2.6	0.06 J	0.1 U	0.1 U
Benzo(k)fluoranthene	0.002	µg/l	0.1 U	0.1 J	0.1 U	0.93	0.1 U	0.1 U	0.1 U
Chrysene	0.002	µg/l	0.1 U	0.17	0.1	2	0.05 J	0.1 U	0.1 U
Indeno(1,2,3-cd)pyrene	0.002	µg/l	0.1 U	0.1	0.05 J	1.6	0.1 U	0.1 U	0.1 U
Hexachlorobenzene	0.04	µg/l	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Total Metals									
Arsenic, Total	50	µg/l	57	3 J	25	13	7	3 J	7
Cadmium, Total	10	µg/l	11	5 U	3 J	2 J	1 J	5 U	2 J
Chromium, Total	100	µg/l	146	11	49	102	5 J	10 U	3 J
Lead, Total	50	µg/l	1510	34	4620	390	74	5 J	7 J
Mercury, Total	1.4	µg/l	1.52	0.07 J	4.65	0.83	1.03	0.08 J	0.11 J

NOTES:

Samples were collected by CHA Consulting, Inc. on September 28-29, 2017 and analyzed by Alpha Analytical

New York TOGS 1.1.1. Groundwater Effluent Limitations criteria reflects all addendum to criteria through June 2004.

Values highlighted in blue indicate exceedance of TOGS 1.1.1 Groundwater Effluent Limitations (Class GA)

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

U - Not detected at the reported detection limit for the sample

* Result shown was re-extracted outside of hold time due to surrogate recoveries outside of acceptance criteria during the initial extraction.

Concentrations of the following seven SVOCs were detected above their respective New York State Groundwater Effluent Limitations and/or Guidance Values (Class GA): benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. PCB Aroclor 1260 was detected in well MW-5. Metals detections above standards included arsenic, cadmium, chromium, lead, and mercury. Volatile organic compounds were not detected in the samples collected during this sampling event.

3.2.3 Groundwater Monitoring Trends

Groundwater analytical trends (detected compounds only) are summarized in Table 3-2 on the following page. Up-gradient wells, MW-4, MW-8 and MW-9 indicate stable or decreasing trends. Metals concentrations in wells MW-8 and MW-9 were found to be below the standard during the September 2017 monitoring event. Elevated metals concentrations in well MW-4 during the September 2017 monitoring event may be explained by intrusive activities associated with installing the new well MW-4R and the fact that that this replacement well was installed approximately 10 feet away from the former well MW-4.

The trend in SVOC concentration in well MW-1 is marked by a decline to below the detection level for five of six contaminants of concern, the remaining being solely benzo(a)anthracene. Monitoring wells MW-2, MW-4R, MW-5 and MW-6 generally indicate a decreasing trend in metals concentration and stable concentrations for SVOCs over the annual groundwater monitoring events from 2015 to 2017.

Table 3-2 Analytical Comparison Table

			MW-1			MW-2			MW-4R		MW-5			MW-6			MW-8			MW-9		
SAMPLING DATE	Standard	Units	2015	2016	2017	2015	2016	2017	2015	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017
Volatile Organics																						
Acetone	50	µg/l		2.5 J			2.6 J					15			2.3 J						2.8 J	
Benzene	1	µg/l										0.16 J										
Ethyl Ether		µg/l	1.4 J																			
o-Xylene	5	µg/l										0.91 J			0.85 J							
p/m-Xylene	5	µg/l		1.1 J			0.83 J					1.3 J			1.5 J							
Tetrachloroethene	5	µg/l							0.7													
Toluene	5	µg/l		1.2 J			0.86 J					1.4 J			1.4 J							
Semivolatile Organics																						
2-Methylnaphthalene		µg/l										0.21 J			0.11 J			0.09 J				
Acenaphthene	20	µg/l		0.39 J								0.19 J			0.1							
Acenaphthylene		µg/l		0.38 J								0.49										
Anthracene	50	µg/l		0.76 J			0.04 J					0.68										
Benzo(a)anthracene	0.002	µg/l		1.6	0.02 J		0.16 J	0.19	0.11 J	0.11	0.12 J	1.8	1.7		0.06 J	0.05 J						
Benzo(a)pyrene	0	µg/l		1.5			0.14 J	0.17	0.1 J	0.09 J	0.12 J	1.7	1.9		0.05 J	0.05 J						
Benzo(b)fluoranthene	0.002	µg/l		2			0.19 J	0.23	0.19 J	0.11	0.02	2.6	2.6		0.06 J	0.06 J						
Benzo(ghi)perylene		µg/l		0.83 J			0.1 J		0.12 J		0.08 J	1.2										
Benzo(k)fluoranthene	0.002	µg/l		0.72 J			0.06 J	0.1 J	0.08 J		0.08 J	0.86	0.93									
Bis(2-ethylhexyl)phthalate	5	µg/l	3.1 B						1.3 J					4.9			1.8 JB			0.96 JB	1.2 J	
Butyl benzyl phthalate	50	µg/l															1.8 JB					
Chrysene	0.002	µg/l		1.6			0.14 J	0.17	0.12 J	0.1	0.12 J	1.9	2		0.05 J	0.05 J						
Dibenzo(a,h)anthracene		µg/l		0.24 J						0.05 J		0.34 J										
Fluoranthene	50	µg/l		4.2			0.28		0.18 J		0.26	4.4			0.14 J							
Fluorene	50	µg/l		0.36 J								0.35 J			0.04 J							
Indeno(1,2,3-cd)pyrene	0.002	µg/l		0.97 J			0.11 J	0.1	0.1 J		0.1	1.4	1.6									
Naphthalene	10	µg/l		0.28 J			0.07 J					1.2			0.19 J			0.08 J			0.1 J	
Phenanthrene	50	µg/l		2.9			0.09 J		0.1		0.17 J	2.5			0.07 J							
Pyrene	50	µg/l		3.4			0.24		0.17 J		0.23	3.6			0.14 J							
Total Metals																						
Arsenic, Total	50	µg/l	8	28.8	57		9.7	3 J		25		43.2	13		9.4	7		7.4	3 J		10	7
Barium, Total	2000	µg/l	342	529		77	88.5		107		46	726		43	69.9		58	68.7		28	58	
Cadmium, Total	10	µg/l		0.7 J	11					3 J		5.5	2 J		0.7 J	1 J		3.8 J			3.1 J	2 J
Chromium, Total	100	µg/l	4.5 J	16	146	3.3 J	6 J	11	4.9 J	49	4.9 J	91	102	4 J	6.3 J	5 J	7 J	7.4 J		5.3 J	19	3 J
Lead, Total	50	µg/l		55	1510	10.9	61.7	34	16.4	4620	15.7	1180	390	4.3 J	57	74	3.4 J	3.4 J	5 J	2.3 J	5.5 J	7 J
Mercury, Total	1.4	µg/l	0.06 J	0.1 J	1.52	0.08 J	0.13 J	0.07 J	0.14 J	4.65	0.09 J	2.85	0.83	0.07 J	0.2	1.03			0.08 J		0.09 J	0.11 J
Selenium, Total	20	µg/l		55			64.5		3.5 J			284			27			21.1		7.7 J	291	
Silver, Total	100	µg/l										6.2 J										
Polychlorinated Biphenyls																						
Aroclor 1260	0.09	µg/l					0.08 J					0.18	0.44		0.09			0.06 J				
PCBs, Total		µg/l					0.08 J					0.18			0.09			0.06 J				

NOTES: Samples were collected by CHA Consulting, Inc. and analyzed by Alpha Analytical
New York TOGS 1.1.1. Groundwater Effluent Limitations criteria reflects all addendum to criteria through June 2004.
Values highlighted in blue indicate exceedance of TOGS 1.1.1 Groundwater Effluent Limitations (Class GA)
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

3.3 COMPLIANCE WITH PERFORMANCE STANDARDS

The groundwater analytical results from the September 2017 monitoring event indicate that there are several contaminants of concern detected at concentrations that exceed the established New York State Groundwater Effluent Limitations and/or Guidance Values (Class GA), although the majority of the results indicate stable conditions or downward trends. 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 September 29, 2017. 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 MW-4 had a broken riser and was replaced by well MW-4R ten feet to the east, in kind.
- Monitoring well MW-7 could not be found, and was subsequently replaced by well MW-7R south of the original location of well MW-7, in kind. The exact distance could not be determined during the site inspection.
- 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 July 2016.

Evaluation of Remedy Performance, Effectiveness & Protectiveness

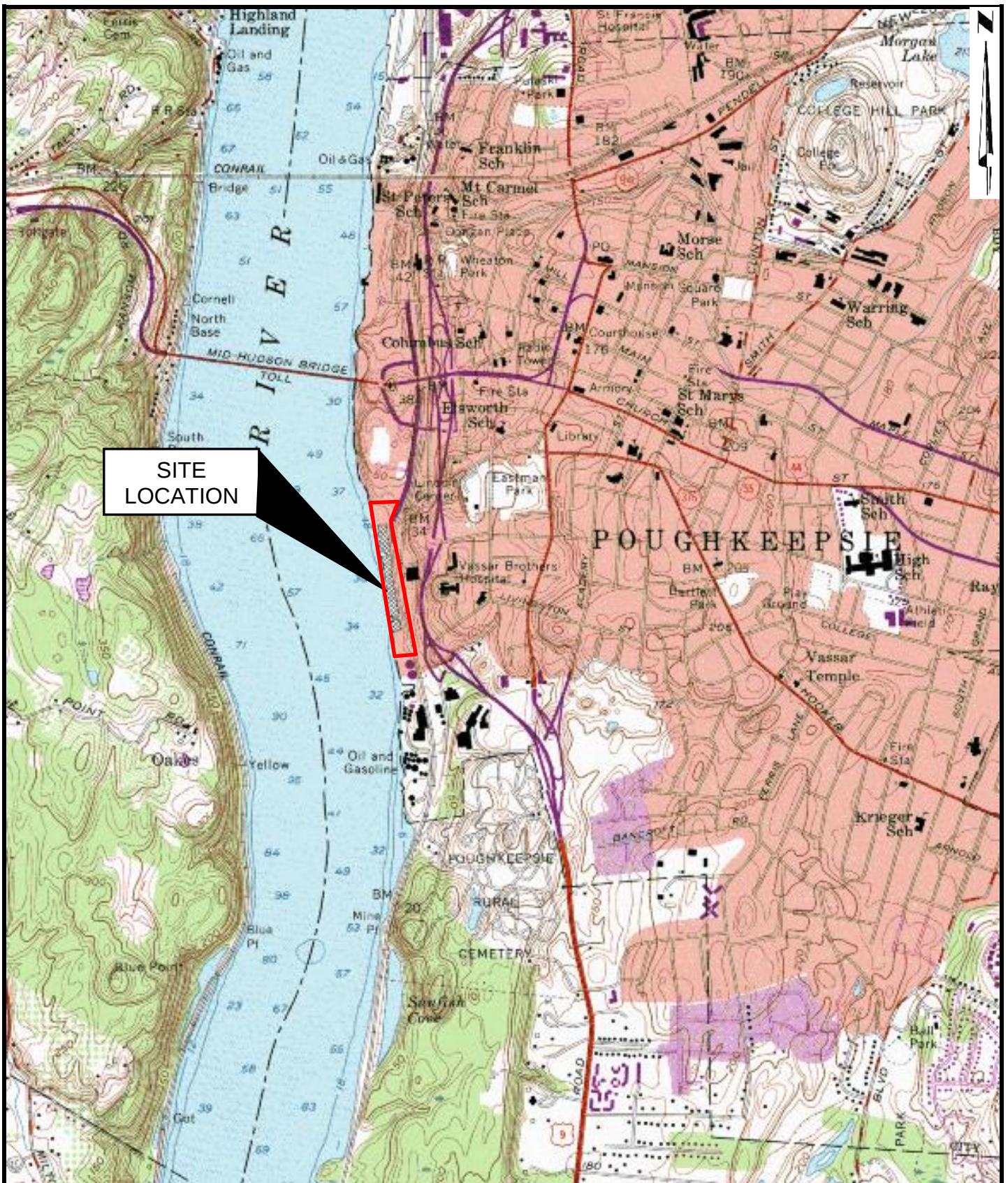
Based on the removal of contaminated soil and other contaminant sources, and post-remediation soil sampling, as described in the Final Engineering Report for the Site, the remedy has achieved the remedial action objectives (RAOs) for soil. Provided the Institutional Controls and Engineering Controls 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 September 2017 (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 most recent 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



One Park Place, 300 State Street Suite 600,
Syracuse, NY 13202-4712
Main: (315) 471-3920 • www.chacompanies.com

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

SITE LOCATION MAP

PROJECT NO.
30114

DATE: 2017

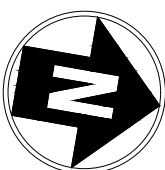
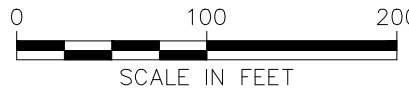
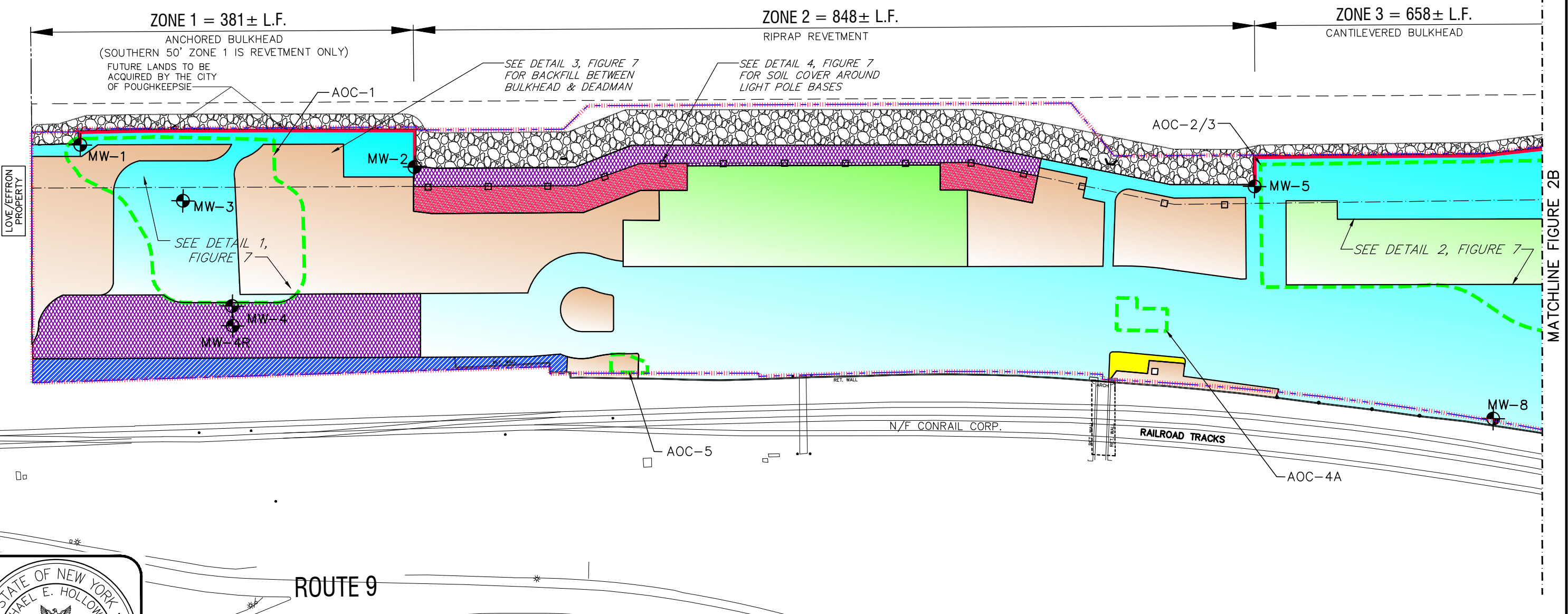
FIGURE 1

File: V:\PROJECTS\ANY\K4\30114\CADD\FIGURES\ENVIRONMENTAL\30114 - FIGURE_2A.DWG Saved: 10/20/2017 2:55:49 PM Plotted: 10/20/2017 2:56:24 PM User: Miller, Samantha

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 IN FUTURE BUILDING PAD AREAS: 6 OZ. NON-WOVEN GEOTEXTILE, > 24" MIN. ITEM 4
	SOIL COVER OVER FUTURE IMPERVIOUS AREAS: 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4		SOIL COVER AT PUMP STATION (INSTALLED PRIOR TO 2008): 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4
	SOIL COVER ON SOUTH EAST SLOPE: GEOGRID, 6" ITEM 4, 6" TOPSOIL		SOIL COVER INSTALLED PRIOR TO 2008: 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4 & PAVED w/ ASPHALT, OR CONCRETE
	SOIL COVER OVER FUTURE IMPERVIOUS AREAS w/ POTENTIAL REMAINING ACM: 6 OZ. NON-WOVEN GEOTEXTILE, 24" MIN. ITEM 4		SOIL COVER INSTALLED PRIOR TO 2008: 6 OZ. NON-WOVEN GEOTEXTILE, 12" MIN. ITEM 4 & TOPSOIL AND/OR MULCH
	SOIL COVER OVER FUTURE PERVIOUS AREAS w/ POTENTIAL REMAINING ACM: 6 OZ. NON-WOVEN GEOTEXTILE, 24" MIN. SILT / TOPSOIL		NO SOIL COVER INSTALLED

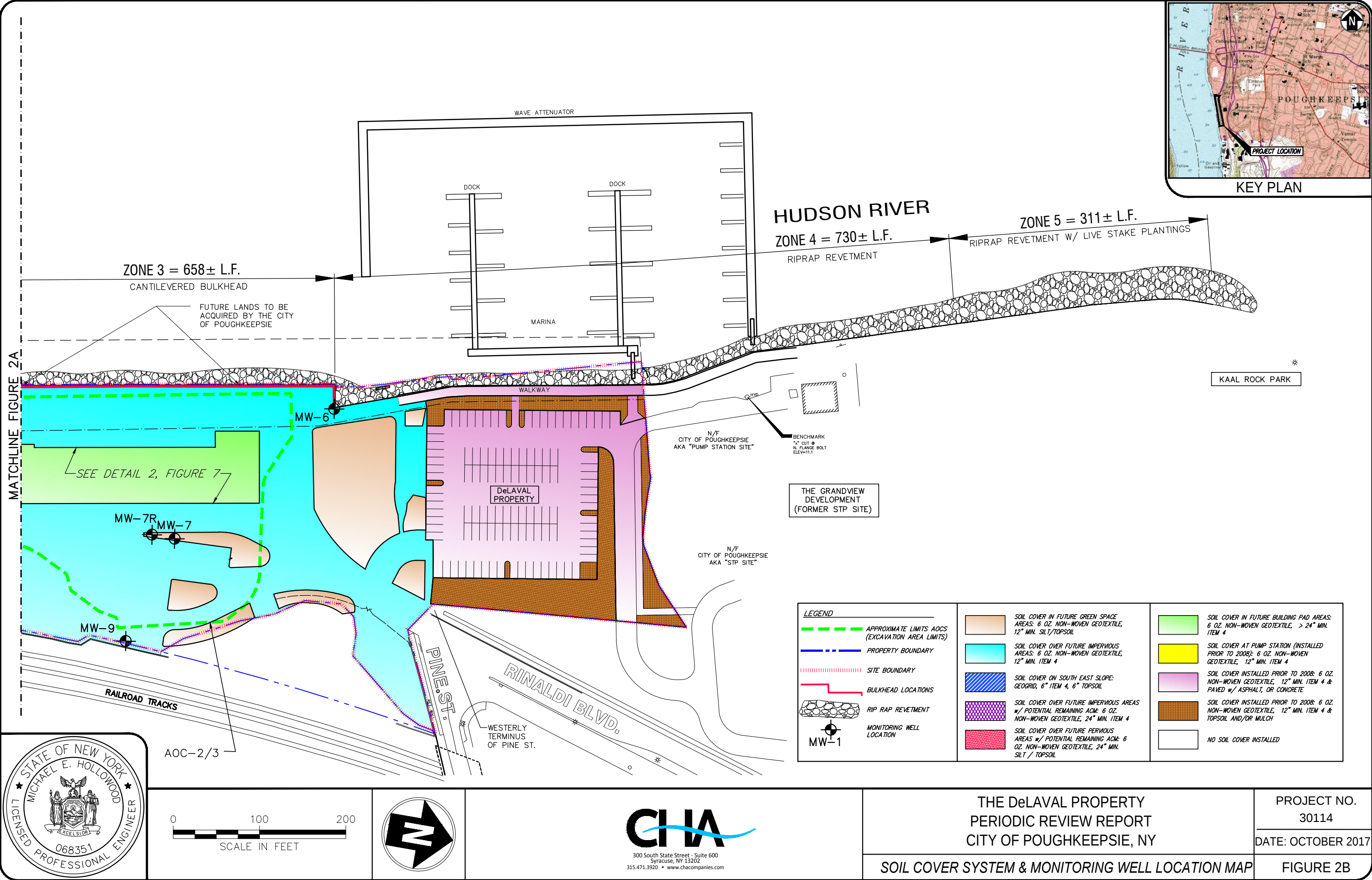


HUDSON RIVER



THE DeLAVAL PROPERTY PERIODIC REVIEW REPORT CITY OF POUGHKEEPSIE, NY SOIL COVER SYSTEM & MONITORING WELL LOCATION MAP	PROJECT NO. 30114
	DATE: OCTOBER 2017
FIGURE 2A	

File: V:\PROJECTS\ANY\K4\30114\CADD\FIGURES\ENVIRONMENTAL\30114 - FIGURE_2A.DWG Saved: 10/13/2017 2:19:50 PM Plotted: 10/13/2017 2:29:19 PM User: Miller, Samantha



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	

Description of Institutional ControlsParcel**131300-6061-43-752749**Owner

City of Poughkeepsie

Institutional Control

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

Description of Engineering ControlsParcel**131300-6061-43-752749**Engineering Control

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

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 complete.

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

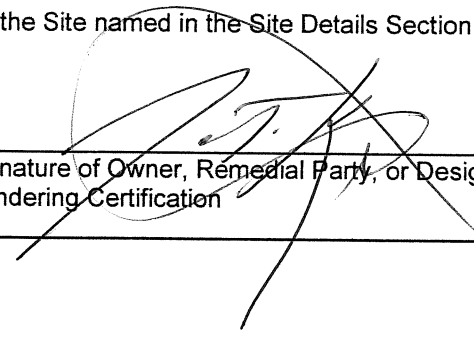
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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 at CITY OF Poughkeepsie Engineering,
print name 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

02/21/2018
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 at 300 South State Street, Suite 600, Syracuse, NY 13202
print name 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



02/20/18
Date

APPENDIX B

Sitewide Inspection Checklist



SITE-WIDE INSPECTION CHECKLIST

Report No. 003

Date: 9/28/2017

Time: 13:45

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

Stephanie Parsons

Temp.: Hi 86°F Low

Type of Inspection: ☒ Routine ☐ Post Severe Condition

Time Low Tide: 13:50

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. 003

Date: 9/28/2017

Time: 13:45

BULKHEAD INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
There is no evidence of significant movement or deflections of bulkheads.	☒	☐	☐	
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	☒	☐	☐	

REVTMENT 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.	☒	☐	☐	Replaced MW-4 and MW-7, in kind
Well caps are installed on the wells.	☒	☐	☐	
Locks present and secured.	☐	☒	☐	No Locks

SITE ACCESSIBILITY INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
Site accessible and passable.	☒	☐	☐	



SITE-WIDE INSPECTION CHECKLIST

Report No. 003

Date: 9/28/2017

Time: 13:45

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

Cascade was on site to decommission MW-4 because it was observed to be broken during 2016 PRR. Installed MW-4R, in kind, approximately 10 ft to the east. MW-7 could not be found. Evidence of broken PVC but no borehole. Installed MW-7R to replace MW-7 along the south end of the same greenspace area, in kind.

Signature:

Samantha Miller

Total Inspection Time: 1.5 hrs

APPENDIX C

Site Photographs



Photograph 1. Re-installation of MW-4 on the DeLaval Property.



Photograph 2. Re-installation of MW-7 on the DeLaval Property.



SITE PHOTOGRAPHS

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

PROJECT NO.
30114

PHOTOGRAPHS
TAKEN: 09/2017



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



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



SITE PHOTOGRAPHS

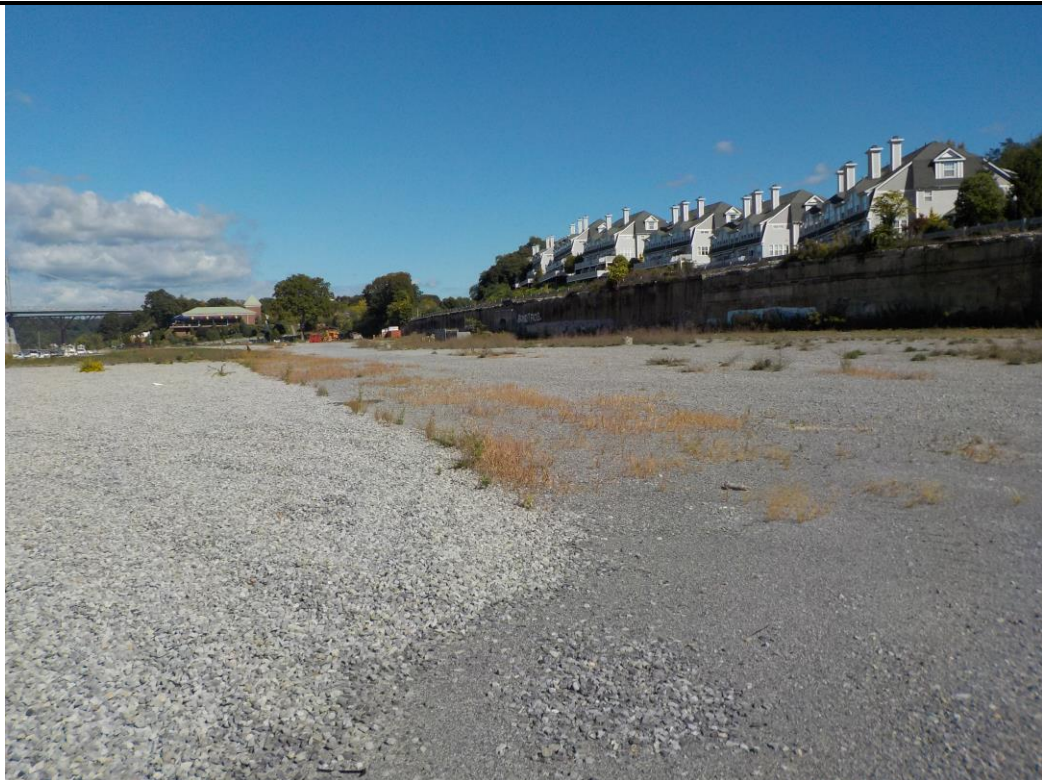
DeLaval Property
202-204 Rinaldi Boulevard
CITY OF POUGHKEEPSIE
COUNTY OF DUTCHESS STATE OF NEW YORK

PROJECT NO.
30114

PHOTOGRAPHS
TAKEN: 09/2017



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



Photograph 6. Looking towards the northeast side of the site.



SITE PHOTOGRAPHS

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

PROJECT NO.
30114

PHOTOGRAPHS
TAKEN: 09/2017



Photograph 7. Looking towards the west side of the site.



Photograph 8. Fallen silt fence on the northern end of the site.



Photograph 9. Drill rig used to re-install replacement monitoring wells MW-4R and MW-7R.



Photograph 10. Stabilization using rip-rap along the Hudson River, looking south.



Photograph 11. Zone 3 Bulkhead.



Photograph 12. Zone 1 Bulkhead.

APPENDIX D

Well Decommissioning Log and Well Construction Logs

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: <u>DeLaval</u>	Well I.D.: <u>4</u>
Site Location: <u>202-204 Rinaldi Blvd.</u>	Driller: <u>Joe Watkins</u>
Drilling Co.: <u>Cascade Technical Services</u>	Inspector:
	Date: <u>9/28/17</u>

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
OVERDRILLING		Depth (feet) Interval Drilled Drilling Method(s) Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing	
CASING PULLING			
Method employed			
Casing retrieved (feet)			
Casing type/dia. (in.)			
CASING PERFORATING			
Equipment used			
Number of perforations/foot			
Size of perforations			
Interval perforated			
GROUTING			
Interval grouted (FBLS)			
# of batches prepared			
For each batch record:			
Quantity of water used (gal.)	<u>9</u>		
Quantity of cement used (lbs.)	<u>50</u>		
Cement type	<u>Portland II</u>		
Quantity of bentonite used (lbs.)	<u>1/2</u>		
Quantity of calcium chloride used (lbs.)			
Volume of grout prepared (gal.)	<u>12 1/2</u>		
Volume of grout used (gal.)	<u>12</u>		

COMMENTS: Remove to 5 ft of P/C
grout in place, 2 in well.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc

Drilling Contractor

Department Representative



WELL CONSTRUCTION LOG

BORING NO.

WELL NO. MW-4R

PROJECT & LOCATION: DeLaval ERP Project, Poughkeepsie, NY

CLIENT: City of Poughkeepsie

CONTRACTOR: Cascade Drilling

PROJECT NO.: 30114

SHEET NO.: 1 OF 1

ELEVATION:

START DATE: 9/28/2017 TIME: 10:00 AM

FINISH DATE: 9/28/2017 TIME: 11:00 AM

DRILLER: Cascade

INSPECTOR: S. Miller

The diagram is a cross-section of a well. At the top, a 'Locking Steel Cap' is shown with a 'Riser Vent Hole'. Below the cap, a 'Protective Casing Weep Hole' is indicated. The well shaft is shown with a dashed line representing the borehole. The casing is shown with a solid line. The casing is labeled 'Type of Protective Casing: to be installed during site development' and 'Inside Dia. Of Casing: n/a'. The casing is shown with a 'Depth Above Ground of Casing: n/a' and 'Depth Below Ground of Casing: n/a'. The casing is shown with a 'Type of Bentonite Seal: chips' and 'Depth to Top of Bentonite Seal: 6\''. The casing is shown with a 'Type of Screen: Slotted' and 'Screen Diameter: 2\''. The screen is shown with a 'Screen Slot Size: 0.010\''. The screen is shown with a 'Depth to Top of Screen: 10\''. The screen is shown with a 'Depth to Bottom of Screen: 20\''. The casing is shown with a 'Depth to Bottom of Borehole: 20\''. The casing is shown with a 'Type of Sand Pack: No. 0 sand' and 'Depth to Top of Sand Pack: 8\''. The sand pack is shown with a 'Depth to Bottom of Sand Pack: 20\''. The casing is shown with a 'Backfill (if any): n/a'.

Locking Steel Cap

Riser Vent Hole

Protective Casing Weep Hole

Depth Above/Below Ground of Riser Pipe: 3'
Type of Cap: gripper plug

Type of Surface Seal: Concrete
Thickness of Surface Seal:

Type of Protective Casing: to be installed during site development
Inside Dia. Of Casing: n/a
Depth Above Ground of Casing: n/a
Depth Below Ground of Casing: n/a

Diameter Borehole: 2.5"

Type of Backfill Around Riser Pipe: Bentonite to Surface

Inside Diameter of Riser Pipe: 2"

Depth to Top of Fine Sand Choke: n/a

Type of Bentonite Seal: chips
Depth to Top of Bentonite Seal: 6'

Type of Sand Pack: No. 0 sand
Depth to Top of Sand Pack: 8'
Depth to Bottom of Sand Pack: 20'

Backfill (if any): n/a

Type of Screen: Slotted
Screen Diameter: 2"
Screen Slot Size: 0.010"
Depth to Top of Screen: 10'
Depth to Bottom of Screen: 20'

Depth to Bottom of Borehole: 20'



WELL CONSTRUCTION LOG

BORING NO.

WELL NO. MW-7R

PROJECT & LOCATION: DeLaval ERP Project, Poughkeepsie, NY

CLIENT: City of Poughkeepsie

CONTRACTOR: Cascade Drilling

PROJECT NO.: 30114

SHEET NO.: 1 OF 1

ELEVATION:

START DATE: 9/28/2017 TIME: 11:45 AM

FINISH DATE: 9/28/2017 TIME: 1:00 PM

DRILLER: Cascade

INSPECTOR: S. Miller

The diagram is a vertical cross-section of a well. At the top, a 'Locking Steel Cap' is shown with a 'Riser Vent Hole'. Below the cap, a 'Protective Casing Weep Hole' is indicated. The well shaft is shown with a dashed line representing the borehole. The casing is shown with a solid line. The casing is labeled 'Type of Protective Casing: to be installed during site development' and 'Inside Dia. Of Casing: n/a'. The casing is shown with a 'Depth Above Ground of Casing: n/a' and 'Depth Below Ground of Casing: n/a'. The casing is shown with a 'Type of Bentonite Seal: chips' and 'Depth to Top of Bentonite Seal: 2\''. The casing is shown with a 'Type of Screen: Slotted' and 'Screen Diameter: 2\''. The screen is shown with a 'Screen Slot Size: 0.010\''. The screen is shown with a 'Depth to Top of Screen: 6\'' and 'Depth to Bottom of Screen: 16\''. The casing is shown with a 'Depth to Bottom of Borehole: 16\''. The casing is shown with a 'Type of Sand Pack: No. 0 sand' and 'Depth to Top of Sand Pack: 4\'' and 'Depth to Bottom of Sand Pack: 16\''. The casing is shown with a 'Depth to Top of Fine Sand Choke: n/a'. The casing is shown with a 'Type of Backfill Around Riser Pipe: Bentonite to Surface'. The casing is shown with an 'Inside Diameter of Riser Pipe: 2\''. The casing is shown with a 'Diameter Borehole: 2.5\''. The casing is shown with a 'Backfill (if any): n/a'.

Locking Steel Cap

Riser Vent Hole

Protective Casing Weep Hole

Depth Above/Below Ground of Riser Pipe: 3'
Type of Cap: gripper plug

Type of Surface Seal: Concrete
Thickness of Surface Seal: _____

Type of Protective Casing: to be installed during site development
Inside Dia. Of Casing: n/a
Depth Above Ground of Casing: n/a
Depth Below Ground of Casing: n/a

Diameter Borehole: 2.5"

Type of Backfill Around Riser Pipe: Bentonite to Surface

Inside Diameter of Riser Pipe: 2"

Depth to Top of Fine Sand Choke: n/a

Type of Bentonite Seal: chips
Depth to Top of Bentonite Seal: 2'

Type of Sand Pack: No. 0 sand
Depth to Top of Sand Pack: 4'
Depth to Bottom of Sand Pack: 16'

Backfill (if any): n/a

Type of Screen: Slotted
Screen Diameter: 2"
Screen Slot Size: 0.010"
Depth to Top of Screen: 6'
Depth to Bottom of Screen: 16'

Depth to Bottom of Borehole: 16'

APPENDIX E

Groundwater Sampling Logs

Appendix E.1

Depth to Groundwater Measurements

DeLaval Property - September 2017 Groundwater Sampling Event
CHA Project No.: 30114

Well ID	Measuring Point	Measurement Time	Depth to Water	Comments
MW-1	TOR	09:53	7.5	
MW-2	TOR	09:58	7.81	
MW-3	TOR	09:47	10.1	
MW-4	TOR	08:02	19.84	
MW-5	TOR	10:33	6.78	
MW-6	TOR	10:40	6.61	
MW-7	TOR	07:53	11.24	
MW-8	TOR	10:57	12.01	
MW-9	TOR	10:56	10.744	

Appendix E.2

Sampling Summary

DeLaval Property - September 2017 Groundwater Sampling Event
CHA Project No.: 30114

Well ID	Sampling Method	Sampling Time	Sample Analyses	Number of Bottles	QA/QC Sample ID
MW-1	Submersible - Low Flow	08:58	VOCs, SVOCs, PCBs, Metals	8	
MW-2	Submersible - Low Flow	09:31	VOCs, SVOCs, PCBs, Metals	8	
MW-4	Bailer	10:30	VOCs, SVOCs, PCBs, Metals	8	
MW-5	Submersible - Low Flow	16:11	VOCs, SVOCs, PCBs, Metals	8	
MW-6	Submersible - Low Flow	14:47	VOCs, SVOCs, PCBs, Metals	8	
MW-8	Submersible - Low Flow	12:33	VOCs, SVOCs, PCBs, Metals	8	
MW-9	Submersible - Low Flow	13:50	VOCs, SVOCs, PCBs, Metals	8 + 8	CHA - 1

Appendix E.3

Sample Purging Summary

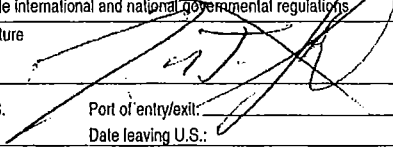
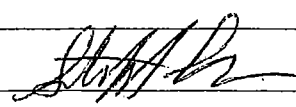
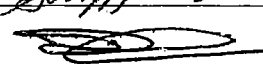
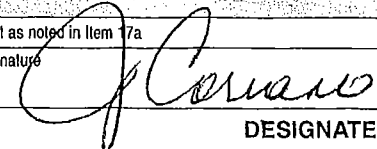
DeLaval Property - September 2017 Groundwater Sampling Event
CHA Project No.: 30114

Well ID	Method of Purging	Time	ORP/Eh (mV)	pH	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Description
MW-1	Submersible	08:49	-248	7.51	0.785	1000	1.7	18.9	
		08:51	-259	7.48	0.786	348	1.37	19.69	
		08:54	-268	7.51	0.787	322	1.21	19.64	
		08:57	-273	7.52	0.787	1000	1.09	0	
MW-2	Submersible	09:22	-60	7.35	1.13	189	5.62	19.08	
		09:25	-80	7.33	1.2	59.5	1.69	19.07	
		09:27	-90	7.36	1.2	40.8	1.34	19.13	
		09:30	-95	7.39	1.21	25.8	1.19	19.32	
MW-4	Submersible	08:02							MW-4 was developed the day prior to sampling, so water quality parameters were not measured.
MW-5	Submersible	15:21	-136	6.77	0.369	396	1.21	22.23	
		15:24	-122	6.73	0.363	488	1.27	12.21	
		15:28	-80	6.7	0.351	200	1.79	22.93	
		15:31	-54	6.65	0.348	134	1.67	23.56	
MW-6	Submersible	14:26	21	6.93	0.38	0	2.57	22.58	
		14:29	-20	6.9	0.381	0	1.77	22.49	
		14:32	-44	6.93	0.383	0	1.37	22.27	
		14:36	-58	6.97	0.385	57.7	1.23	22.31	
		14:39	-63	6.99	0.385	60.1	1.38	22.36	
		14:42	-75	7.03	0.386	22.5	1.7	22.31	
		14:45	-95	7.08	0.386	11.6	2.01	22.25	
MW-8	Submersible	12:13	91	6.21	0.668	0	4.15	20.14	
		12:18	102	6.28	0.671	1000	3.85	19.37	
		12:21	106	6.28	0.673	1000	3.78	19.08	
		12:26	111	6.24	0.677	724	3.6	18.72	
		12:29	108	6.28	0.678	271	3.42	18.55	
MW-9	Submersible	13:45	122	6.75	0.843	537	9.73	17.3	
		13:47	124	6.76	0.851	211	4.84	16.43	
		13:49	125	6.77	0.839	86.8	3.71	16.11	

APPENDIX F

Waste Disposal Documentation

BOL207529A

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number V S Q G	2. Page 1 of 1	3. Emergency Response Phone 800-255-3924	4. Waste Tracking Number 17-02118-01
5. Generator's Name and Mailing Address City of Poughkeepsie 62 Civic Center Plaza Poughkeepsie NY 12602			Generator's Site Address (if different than mailing address) City of Poughkeepsie 202-204 Rinaldi Boulevard Poughkeepsie NY 12602		
Generator's Phone: 845 451-4192					
6. Transporter 1 Company Name Precision Industrial Maintenance, Inc.			U.S. EPA ID Number NY0001031814		
7. Transporter 2 Company Name Clean Venture, inc. Clean Venture, Inc. Allstate Power Vac			U.S. EPA ID Number NJD0003812047 NJ00000027193		
8. Designated Facility Name and Site Address Cycle Chem, Inc. 217 South First Street Elizabeth NJ 07208			U.S. EPA ID Number NJD002200046		
Facility's Phone: 908 355-5800					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-RCRA, non-DOT Regulated Liquid (Drilling Purge Water)		001	DM	Est 100	P
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information 001/SSg/ JOB #17-02118 1)(Drilling Purge Water) / PRODUCT CODE: 0W-1 / CONTAINER QTY. & SIZE:					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offlor's Printed/Typed Name JOSEPH KANE			Signature 		Month Day Year 11 03 17
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Stefen Schuyler			Signature 		Month Day Year 11 13 17
Transporter 2 Printed/Typed Name Will Wilson			Signature 		Month Day Year 11 16 2017
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name J CORIANO			Signature 		Month Day Year 11 28 17

APPENDIX G

Laboratory Analytical Report



ANALYTICAL REPORT

Lab Number:	L1734998
Client:	CHA Companies One Park Place 300 South State St., Suite 600 Syracuse, NY 13202
ATTN:	Samantha Miller
Phone:	(315) 471-3920
Project Name:	DELAVAL ANNUAL GROUNDWATER
Project Number:	30114
Report Date:	10/09/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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



Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1734998-01	MW-8	WATER	NY	09/28/17 12:33	09/29/17
L1734998-02	MW-9	WATER	NY	09/28/17 13:50	09/29/17
L1734998-03	MW-6	WATER	NY	09/28/17 14:47	09/29/17
L1734998-04	MW-5	WATER	NY	09/28/17 16:11	09/29/17
L1734998-05	CHA-1	WATER	NY	09/28/17 13:00	09/29/17
L1734998-06	FB-2017	WATER	NY	09/28/17 12:00	09/29/17
L1734998-07	MW-2	WATER	NY	09/29/17 09:31	09/29/17
L1734998-08	MW-1	WATER	NY	09/29/17 08:58	09/29/17
L1734998-09	MW-4	WATER	NY	09/29/17 10:30	09/29/17
L1734998-10	WC-2017	WATER	NY	09/29/17 10:45	09/29/17
L1734998-11	TRIP BLANK	WATER	NY	09/29/17 00:00	09/29/17

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

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.

Sample Receipt

L1734998-06: Headspace was noted in the sample containers submitted for Volatile Organics. The analysis was performed at the client's request.

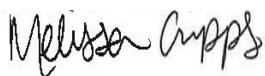
L1734998-11: A sample identified as "TRIP BLANK" was received but not listed on the Chain of Custody. At the client's request, this sample was analyzed.

PCBs

L1734998-04: The surrogate recoveries were outside the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (26%,22%) and decachlorobiphenyl (16%,18%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 10/09/17

ORGANICS

VOLATILES

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-01
Client ID: MW-8
Sample Location: NY

Date Collected: 09/28/17 12:33
Date Received: 09/29/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/06/17 21:26
Analyst: AD

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	0.14	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	0.17	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	0.17	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-01
Client ID: MW-8
Sample Location: NY

Date Collected: 09/28/17 12:33
Date Received: 09/29/17
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	61.	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	114		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-02
Client ID: MW-9
Sample Location: NY

Date Collected: 09/28/17 13:50
Date Received: 09/29/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/06/17 21:55
Analyst: AD

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	0.14	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	0.17	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	0.17	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-02
Client ID: MW-9
Sample Location: NY

Date Collected: 09/28/17 13:50
Date Received: 09/29/17
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	61.	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	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-03
Client ID: MW-6
Sample Location: NY

Date Collected: 09/28/17 14:47
Date Received: 09/29/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/06/17 22:24
Analyst: AD

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	0.14	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	0.17	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	0.17	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-03
Client ID: MW-6
Sample Location: NY

Date Collected: 09/28/17 14:47
Date Received: 09/29/17
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	61.	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	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-04
Client ID: MW-5
Sample Location: NY

Date Collected: 09/28/17 16:11
Date Received: 09/29/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/06/17 22:53
Analyst: AD

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	0.14	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	0.17	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	0.17	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-04
Client ID: MW-5
Sample Location: NY

Date Collected: 09/28/17 16:11
Date Received: 09/29/17
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	61.	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	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-05
Client ID: CHA-1
Sample Location: NY

Date Collected: 09/28/17 13:00
Date Received: 09/29/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/06/17 23:21
Analyst: AD

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	0.14	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	0.17	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	0.17	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-05
Client ID: CHA-1
Sample Location: NY

Date Collected: 09/28/17 13:00
Date Received: 09/29/17
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	61.	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	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-06
Client ID: FB-2017
Sample Location: NY

Date Collected: 09/28/17 12:00
Date Received: 09/29/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/06/17 23:50
Analyst: AD

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	0.14	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	0.17	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	0.17	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-06
Client ID: FB-2017
Sample Location: NY

Date Collected: 09/28/17 12:00
Date Received: 09/29/17
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	3.8	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	61.	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	113		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-07
Client ID: MW-2
Sample Location: NY

Date Collected: 09/29/17 09:31
Date Received: 09/29/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/07/17 00:18
Analyst: AD

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	0.14	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	0.17	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	0.17	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-07
Client ID: MW-2
Sample Location: NY

Date Collected: 09/29/17 09:31
Date Received: 09/29/17
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	61.	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	114		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-08
Client ID: MW-1
Sample Location: NY

Date Collected: 09/29/17 08:58
Date Received: 09/29/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/07/17 00:47
Analyst: AD

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	0.14	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	0.17	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	0.17	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-08
Client ID: MW-1
Sample Location: NY

Date Collected: 09/29/17 08:58
Date Received: 09/29/17
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	61.	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	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-09
Client ID: MW-4
Sample Location: NY

Date Collected: 09/29/17 10:30
Date Received: 09/29/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/07/17 01:16
Analyst: AD

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	0.14	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	0.17	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	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.0		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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-09
Client ID: MW-4
Sample Location: NY

Date Collected: 09/29/17 10:30
Date Received: 09/29/17
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	61.	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	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-10
Client ID: WC-2017
Sample Location: NY

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/07/17 01:44
Analyst: AD

Date Collected: 09/29/17 10:45
Date Received: 09/29/17
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	0.14	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	0.17	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	0.17	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-10
Client ID: WC-2017
Sample Location: NY

Date Collected: 09/29/17 10:45
Date Received: 09/29/17
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	2.2	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	61.	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	113		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-11
Client ID: TRIP BLANK
Sample Location: NY

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/07/17 02:13
Analyst: AD

Date Collected: 09/29/17 00:00
Date Received: 09/29/17
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	0.14	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	0.17	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	0.17	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-11
Client ID: TRIP BLANK
Sample Location: NY

Date Collected: 09/29/17 00:00
Date Received: 09/29/17
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	61.	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	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/06/17 20:58
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1050181-5					
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	0.14
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	0.17
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	0.17
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 ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/06/17 20:58
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1050181-5					
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	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: DELAVAL ANNUAL GROUNDWATER**Lab Number:** L1734998**Project Number:** 30114**Report Date:** 10/09/17**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 10/06/17 20:58

Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1050181-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: DELAVAL ANNUAL GROUNDWATER

Project Number: 30114

Lab Number: L1734998

Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1050181-3 WG1050181-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	96		100		63-132	4		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	97		99		70-130	2		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	120		120		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
Bromoform	100		110		54-136	10		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	89		91		64-130	2		20
Bromomethane	38	Q	60		39-139	45	Q	20
Vinyl chloride	96		99		55-140	3		20

Lab Control Sample Analysis Batch Quality Control

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1050181-3 WG1050181-4								
Chloroethane	100		110		55-138	10		20
1,1-Dichloroethene	99		100		61-145	1		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	99		100		70-130	1		20
Methyl tert butyl ether	110		120		63-130	9		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	105		110		70-130	5		20
Dichlorodifluoromethane	88		91		36-147	3		20
Acetone	110		100		58-148	10		20
Carbon disulfide	96		97		51-130	1		20
2-Butanone	140	Q	120		63-138	15		20
4-Methyl-2-pentanone	120		130		59-130	8		20
2-Hexanone	120		120		57-130	0		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	100		110		41-144	10		20
Isopropylbenzene	99		100		70-130	1		20
1,2,3-Trichlorobenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL ANNUAL GROUNDWATER

Project Number: 30114

Lab Number: L1734998

Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1050181-3 WG1050181-4								
1,2,4-Trichlorobenzene	100		110		70-130	10		20
Methyl Acetate	120		140	Q	70-130	15		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	108		134		56-162	21	Q	20
Freon-113	100		100		70-130	0		20
Methyl cyclohexane	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		110		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	102		104		70-130

SEMIVOLATILES

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-01
Client ID: MW-8
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/07/17 01:29
Analyst: CB

Date Collected: 09/28/17 12:33
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:20

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	1.2	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-01
Client ID: MW-8
Sample Location: NY

Date Collected: 09/28/17 12:33
Date Received: 09/29/17
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	59		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	90		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-01
Client ID: MW-8
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/06/17 19:06
Analyst: KL

Date Collected: 09/28/17 12:33
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:26

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	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-01
Client ID: MW-8
Sample Location: NY

Date Collected: 09/28/17 12:33
Date Received: 09/29/17
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	47		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	98		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	85		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-02
Client ID: MW-9
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/07/17 01:52
Analyst: CB

Date Collected: 09/28/17 13:50
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:20

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	1.2	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-02
Client ID: MW-9
Sample Location: NY

Date Collected: 09/28/17 13:50
Date Received: 09/29/17
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	37		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	90		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-02
Client ID: MW-9
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/06/17 19:35
Analyst: KL

Date Collected: 09/28/17 13:50
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:26

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	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-02
Client ID: MW-9
Sample Location: NY

Date Collected: 09/28/17 13:50
Date Received: 09/29/17
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	44		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	102		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	79		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-03
Client ID: MW-6
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/07/17 02:16
Analyst: CB

Date Collected: 09/28/17 14:47
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:20

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	1.2	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-03
Client ID: MW-6
Sample Location: NY

Date Collected: 09/28/17 14:47
Date Received: 09/29/17
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	61		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	97		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-03
Client ID: MW-6
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/06/17 20:04
Analyst: KL

Date Collected: 09/28/17 14:47
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.12		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.12		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.05	J	ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.06	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	0.05	J	ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	0.15		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-03
Client ID: MW-6
Sample Location: NY

Date Collected: 09/28/17 14:47
Date Received: 09/29/17
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	47		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	105		15-120
2,4,6-Tribromophenol	100		10-120
4-Terphenyl-d14	86		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-04
Client ID: MW-5
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/07/17 02:40
Analyst: CB

Date Collected: 09/28/17 16:11
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:20

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	1.2	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-04
Client ID: MW-5
Sample Location: NY

Date Collected: 09/28/17 16:11
Date Received: 09/29/17
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	58		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	88		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-04
Client ID: MW-5
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/06/17 20:33
Analyst: KL

Date Collected: 09/28/17 16:11
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.16		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	2.8		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.25		ug/l	0.10	0.04	1
Benzo(a)anthracene	1.7		ug/l	0.10	0.02	1
Benzo(a)pyrene	1.9		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	2.6		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	0.93		ug/l	0.10	0.04	1
Chrysene	2.0		ug/l	0.10	0.04	1
Acenaphthylene	0.47		ug/l	0.10	0.04	1
Anthracene	0.45		ug/l	0.10	0.04	1
Benzo(ghi)perylene	1.6		ug/l	0.10	0.04	1
Fluorene	0.24		ug/l	0.10	0.04	1
Phenanthrene	1.9		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.37		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	1.6		ug/l	0.10	0.04	1
Pyrene	2.4		ug/l	0.10	0.04	1
2-Methylnaphthalene	0.13		ug/l	0.10	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-04
Client ID: MW-5
Sample Location: NY

Date Collected: 09/28/17 16:11
Date Received: 09/29/17
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	44		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	71		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-05
Client ID: CHA-1
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/07/17 03:04
Analyst: CB

Date Collected: 09/28/17 13:00
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:20

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	1.2	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-05
Client ID: CHA-1
Sample Location: NY

Date Collected: 09/28/17 13:00
Date Received: 09/29/17
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	55		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	88		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-05
Client ID: CHA-1
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/07/17 16:40
Analyst: KL

Date Collected: 09/28/17 13:00
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:26

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	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.04	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-05
Client ID: CHA-1
Sample Location: NY

Date Collected: 09/28/17 13:00
Date Received: 09/29/17
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	64		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	104		15-120
2,4,6-Tribromophenol	120		10-120
4-Terphenyl-d14	101		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-06
Client ID: FB-2017
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/07/17 03:28
Analyst: CB

Date Collected: 09/28/17 12:00
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:20

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	1.2	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-06
Client ID: FB-2017
Sample Location: NY

Date Collected: 09/28/17 12:00
Date Received: 09/29/17
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	60		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	96		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-06
Client ID: FB-2017
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/07/17 17:04
Analyst: KL

Date Collected: 09/28/17 12:00
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 01:26

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	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-06
Client ID: FB-2017
Sample Location: NY

Date Collected: 09/28/17 12:00
Date Received: 09/29/17
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	72		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	106		23-120
2-Fluorobiphenyl	110		15-120
2,4,6-Tribromophenol	126	Q	10-120
4-Terphenyl-d14	112		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-07
Client ID: MW-2
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/06/17 21:53
Analyst: CB

Date Collected: 09/29/17 09:31
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 11:41

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	1.2	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-07
Client ID: MW-2
Sample Location: NY

Date Collected: 09/29/17 09:31
Date Received: 09/29/17
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	48		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	80		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-07
Client ID: MW-2
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/07/17 13:31
Analyst: KL

Date Collected: 09/29/17 09:31
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 11:55

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	0.38		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.06	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	0.19		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.17		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.23		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	0.10	J	ug/l	0.10	0.04	1
Chrysene	0.17		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.07	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	0.13		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.24		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.10		ug/l	0.10	0.04	1
Pyrene	0.33		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-07
Client ID: MW-2
Sample Location: NY

Date Collected: 09/29/17 09:31
Date Received: 09/29/17
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	57		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	110		15-120
2,4,6-Tribromophenol	107		10-120
4-Terphenyl-d14	104		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-08
Client ID: MW-1
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/06/17 22:17
Analyst: CB

Date Collected: 09/29/17 08:58
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 11:41

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	1.2	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-08
Client ID: MW-1
Sample Location: NY

Date Collected: 09/29/17 08:58
Date Received: 09/29/17
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	61		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	84		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-08
Client ID: MW-1
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/07/17 13:55
Analyst: KL

Date Collected: 09/29/17 08:58
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 11:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.16		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.04	J	ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.04	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.10	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-08
Client ID: MW-1
Sample Location: NY

Date Collected: 09/29/17 08:58
Date Received: 09/29/17
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	64		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	100		15-120
2,4,6-Tribromophenol	115		10-120
4-Terphenyl-d14	88		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-09
Client ID: MW-4
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/06/17 22:41
Analyst: CB

Date Collected: 09/29/17 10:30
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 11:41

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	1.2	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-09
Client ID: MW-4
Sample Location: NY

Date Collected: 09/29/17 10:30
Date Received: 09/29/17
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	44		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	63		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-09
Client ID: MW-4
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/07/17 13:07
Analyst: KL

Date Collected: 09/29/17 10:30
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 11:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.04	J	ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.19		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.09	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	0.11		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.09	J	ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.11		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	0.10		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.08	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	0.06	J	ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.19		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.05	J	ug/l	0.10	0.04	1
Pyrene	0.20		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-09
Client ID: MW-4
Sample Location: NY

Date Collected: 09/29/17 10:30
Date Received: 09/29/17
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	46		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	74		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-10
Client ID: WC-2017
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 10/06/17 23:05
Analyst: CB

Date Collected: 09/29/17 10:45
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 11:41

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	1.2	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-10
Client ID: WC-2017
Sample Location: NY

Date Collected: 09/29/17 10:45
Date Received: 09/29/17
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	49		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	83		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-10
Client ID: WC-2017
Sample Location: NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 10/07/17 14:18
Analyst: KL

Date Collected: 09/29/17 10:45
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 11:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.05	J	ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.15		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.07	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	0.08	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.07	J	ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.10		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	0.07	J	ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.05	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	0.06	J	ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.15		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.05	J	ug/l	0.10	0.04	1
Pyrene	0.14		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-10
Client ID: WC-2017
Sample Location: NY

Date Collected: 09/29/17 10:45
Date Received: 09/29/17
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	50		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	90		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 10/05/17 15:03
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 10/05/17 01:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1049042-1					
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	1.2
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 ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 10/05/17 15:03
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 10/05/17 01:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1049042-1					
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
Benzaldehyde	ND		ug/l	5.0	1.1
Caprolactam	ND		ug/l	10	3.6
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: DELAVAL ANNUAL GROUNDWATER**Lab Number:** L1734998**Project Number:** 30114**Report Date:** 10/09/17**Method Blank Analysis**
Batch Quality ControlAnalytical Method: 1,8270D
Analytical Date: 10/05/17 15:03
Analyst: PSExtraction Method: EPA 3510C
Extraction Date: 10/05/17 01:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1049042-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	76		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 10/06/17 10:36
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 10/05/17 01:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG1049045-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	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 ANNUAL GROUNDWATER**Lab Number:** L1734998**Project Number:** 30114**Report Date:** 10/09/17**Method Blank Analysis**
Batch Quality ControlAnalytical Method: 1,8270D-SIM
Analytical Date: 10/06/17 10:36
Analyst: DVExtraction Method: EPA 3510C
Extraction Date: 10/05/17 01:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-06 Batch: WG1049045-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	57		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 10/06/17 19:53
 Analyst: CB

Extraction Method: EPA 3510C
 Extraction Date: 10/05/17 11:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-10 Batch: WG1049251-1					
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	1.2
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 ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 10/06/17 19:53
 Analyst: CB

Extraction Method: EPA 3510C
 Extraction Date: 10/05/17 11:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-10 Batch: WG1049251-1					
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
Benzaldehyde	ND		ug/l	5.0	1.1
Caprolactam	ND		ug/l	10	3.6
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.93

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	91		41-149

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 10/07/17 11:56
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 10/05/17 11:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07-10 Batch: WG1049267-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	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 ANNUAL GROUNDWATER**Lab Number:** L1734998**Project Number:** 30114**Report Date:** 10/09/17**Method Blank Analysis**
Batch Quality ControlAnalytical Method: 1,8270D-SIM
Analytical Date: 10/07/17 11:56
Analyst: KLExtraction Method: EPA 3510C
Extraction Date: 10/05/17 11:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07-10 Batch: WG1049267-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	127	Q	10-120
4-Terphenyl-d14	110		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1049042-2 WG1049042-3								
Bis(2-chloroethyl)ether	57		47		40-140	19		30
3,3'-Dichlorobenzidine	60		50		40-140	18		30
2,4-Dinitrotoluene	83		69		48-143	18		30
2,6-Dinitrotoluene	84		69		40-140	20		30
4-Chlorophenyl phenyl ether	62		52		40-140	18		30
4-Bromophenyl phenyl ether	62		53		40-140	16		30
Bis(2-chloroisopropyl)ether	59		49		40-140	19		30
Bis(2-chloroethoxy)methane	63		50		40-140	23		30
Hexachlorocyclopentadiene	40		36	Q	40-140	11		30
Isophorone	66		52		40-140	24		30
Nitrobenzene	67		55		40-140	20		30
NDPA/DPA	70		58		40-140	19		30
n-Nitrosodi-n-propylamine	63		50		29-132	23		30
Bis(2-ethylhexyl)phthalate	92		75		40-140	20		30
Butyl benzyl phthalate	83		69		40-140	18		30
Di-n-butylphthalate	84		69		40-140	20		30
Di-n-octylphthalate	90		74		40-140	20		30
Diethyl phthalate	77		64		40-140	18		30
Dimethyl phthalate	74		60		40-140	21		30
Biphenyl	67		58		40-140	14		30
4-Chloroaniline	48		34	Q	40-140	34	Q	30
2-Nitroaniline	85		70		52-143	19		30
3-Nitroaniline	70		56		25-145	22		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: DELAVAL ANNUAL GROUNDWATER

Project Number: 30114

Lab Number: L1734998

Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1049042-2 WG1049042-3								
4-Nitroaniline	75		62		51-143	19		30
Dibenzofuran	67		57		40-140	16		30
1,2,4,5-Tetrachlorobenzene	52		48		2-134	8		30
Acetophenone	73		59		39-129	21		30
2,4,6-Trichlorophenol	71		58		30-130	20		30
p-Chloro-m-cresol	73		62		23-97	16		30
2-Chlorophenol	69		57		27-123	19		30
2,4-Dichlorophenol	74		59		30-130	23		30
2,4-Dimethylphenol	78		61		30-130	24		30
2-Nitrophenol	85		70		30-130	19		30
4-Nitrophenol	60		51		10-80	16		30
2,4-Dinitrophenol	95		77		20-130	21		30
4,6-Dinitro-o-cresol	89		75		20-164	17		30
Phenol	33		26		12-110	24		30
3-Methylphenol/4-Methylphenol	62		48		30-130	25		30
2,4,5-Trichlorophenol	71		58		30-130	20		30
Carbazole	74		61		55-144	21		30
Atrazine	70		58		40-140	19		30
Benzaldehyde	60		51		40-140	16		30
Caprolactam	20		16		10-130	22		30
2,3,4,6-Tetrachlorophenol	73		59		40-140	21		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** DELAVAL ANNUAL GROUNDWATER**Lab Number:** L1734998**Project Number:** 30114**Report Date:** 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
------------------	--------------------------	-------------	---------------------------	-------------	-----------------------------	------------	-------------	-----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1049042-2 WG1049042-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	51		43		21-120
Phenol-d6	38		31		10-120
Nitrobenzene-d5	77		63		23-120
2-Fluorobiphenyl	71		59		15-120
2,4,6-Tribromophenol	74		62		10-120
4-Terphenyl-d14	70		59		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL ANNUAL GROUNDWATER

Project Number: 30114

Lab Number: L1734998

Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG1049045-2 WG1049045-3								
Acenaphthene	52		60		37-111	14		40
2-Chloronaphthalene	55		63		40-140	14		40
Fluoranthene	51		60		40-140	16		40
Hexachlorobutadiene	49		54		40-140	10		40
Naphthalene	52		59		40-140	13		40
Benzo(a)anthracene	48		57		40-140	17		40
Benzo(a)pyrene	50		60		40-140	18		40
Benzo(b)fluoranthene	49		60		40-140	20		40
Benzo(k)fluoranthene	48		56		40-140	15		40
Chrysene	46		55		40-140	18		40
Acenaphthylene	57		65		40-140	13		40
Anthracene	49		58		40-140	17		40
Benzo(ghi)perylene	46		58		40-140	23		40
Fluorene	53		63		40-140	17		40
Phenanthrene	46		54		40-140	16		40
Dibenzo(a,h)anthracene	46		60		40-140	26		40
Indeno(1,2,3-cd)pyrene	46		60		40-140	26		40
Pyrene	53		59		26-127	11		40
2-Methylnaphthalene	54		61		40-140	12		40
Pentachlorophenol	48		56		9-103	15		40
Hexachlorobenzene	50		57		40-140	13		40
Hexachloroethane	47		53		40-140	12		40

Lab Control Sample Analysis**Batch Quality Control****Project Name:** DELAVAL ANNUAL GROUNDWATER**Lab Number:** L1734998**Project Number:** 30114**Report Date:** 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
------------------	--------------------------	-------------	---------------------------	-------------	-----------------------------	------------	-------------	-----------------------

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-06 Batch: WG1049045-2 WG1049045-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	39		45		21-120
Phenol-d6	29		34		10-120
Nitrobenzene-d5	58		69		23-120
2-Fluorobiphenyl	62		70		15-120
2,4,6-Tribromophenol	64		80		10-120
4-Terphenyl-d14	54		62		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL ANNUAL GROUNDWATER

Project Number: 30114

Lab Number: L1734998

Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-10 Batch: WG1049251-2 WG1049251-3								
Bis(2-chloroethyl)ether	64		70		40-140	9		30
3,3'-Dichlorobenzidine	57		71		40-140	22		30
2,4-Dinitrotoluene	95		100		48-143	5		30
2,6-Dinitrotoluene	94		98		40-140	4		30
4-Chlorophenyl phenyl ether	72		76		40-140	5		30
4-Bromophenyl phenyl ether	72		75		40-140	4		30
Bis(2-chloroisopropyl)ether	66		72		40-140	9		30
Bis(2-chloroethoxy)methane	69		77		40-140	11		30
Hexachlorocyclopentadiene	48		51		40-140	6		30
Isophorone	71		80		40-140	12		30
Nitrobenzene	77		86		40-140	11		30
NDPA/DPA	79		82		40-140	4		30
n-Nitrosodi-n-propylamine	68		75		29-132	10		30
Bis(2-ethylhexyl)phthalate	101		107		40-140	6		30
Butyl benzyl phthalate	96		99		40-140	3		30
Di-n-butylphthalate	96		99		40-140	3		30
Di-n-octylphthalate	103		109		40-140	6		30
Diethyl phthalate	88		94		40-140	7		30
Dimethyl phthalate	83		88		40-140	6		30
Biphenyl	79		85		40-140	7		30
4-Chloroaniline	46		56		40-140	20		30
2-Nitroaniline	94		102		52-143	8		30
3-Nitroaniline	74		84		25-145	13		30

Lab Control Sample Analysis Batch Quality Control

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-10 Batch: WG1049251-2 WG1049251-3								
4-Nitroaniline	84		91		51-143	8		30
Dibenzofuran	77		81		40-140	5		30
1,2,4,5-Tetrachlorobenzene	64		70		2-134	9		30
Acetophenone	81		89		39-129	9		30
2,4,6-Trichlorophenol	79		85		30-130	7		30
p-Chloro-m-cresol	81		87		23-97	7		30
2-Chlorophenol	76		85		27-123	11		30
2,4-Dichlorophenol	80		92		30-130	14		30
2,4-Dimethylphenol	80		87		30-130	8		30
2-Nitrophenol	96		107		30-130	11		30
4-Nitrophenol	73		74		10-80	1		30
2,4-Dinitrophenol	104		117		20-130	12		30
4,6-Dinitro-o-cresol	100		107		20-164	7		30
Phenol	32		35		12-110	9		30
3-Methylphenol/4-Methylphenol	64		70		30-130	9		30
2,4,5-Trichlorophenol	77		82		30-130	6		30
Carbazole	86		88		55-144	2		30
Atrazine	75		81		40-140	8		30
Benzaldehyde	63		76		40-140	19		30
Caprolactam	24		26		10-130	8		30
2,3,4,6-Tetrachlorophenol	82		86		40-140	5		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** DELAVAL ANNUAL GROUNDWATER**Lab Number:** L1734998**Project Number:** 30114**Report Date:** 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
------------------	--------------------------	-------------	---------------------------	-------------	-----------------------------	------------	-------------	-----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-10 Batch: WG1049251-2 WG1049251-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	50		53		21-120
Phenol-d6	34		37		10-120
Nitrobenzene-d5	81		89		23-120
2-Fluorobiphenyl	74		77		15-120
2,4,6-Tribromophenol	79		82		10-120
4-Terphenyl-d14	73		76		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: DELAVAL ANNUAL GROUNDWATER

Project Number: 30114

Lab Number: L1734998

Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-10 Batch: WG1049267-2 WG1049267-3								
Acenaphthene	107		108		37-111	1		40
2-Chloronaphthalene	110		113		40-140	3		40
Fluoranthene	113		115		40-140	2		40
Hexachlorobutadiene	91		95		40-140	4		40
Naphthalene	99		103		40-140	4		40
Benzo(a)anthracene	110		110		40-140	0		40
Benzo(a)pyrene	119		120		40-140	1		40
Benzo(b)fluoranthene	122		117		40-140	4		40
Benzo(k)fluoranthene	108		116		40-140	7		40
Chrysene	105		106		40-140	1		40
Acenaphthylene	110		112		40-140	2		40
Anthracene	111		112		40-140	1		40
Benzo(ghi)perylene	114		116		40-140	2		40
Fluorene	112		113		40-140	1		40
Phenanthrene	104		105		40-140	1		40
Dibenzo(a,h)anthracene	121		124		40-140	2		40
Indeno(1,2,3-cd)pyrene	120		122		40-140	2		40
Pyrene	112		114		26-127	2		40
2-Methylnaphthalene	105		109		40-140	4		40
Pentachlorophenol	100		102		9-103	2		40
Hexachlorobenzene	110		112		40-140	2		40
Hexachloroethane	87		91		40-140	4		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-10 Batch: WG1049267-2 WG1049267-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	57		58		21-120
Phenol-d6	40		41		10-120
Nitrobenzene-d5	94		96		23-120
2-Fluorobiphenyl	105		106		15-120
2,4,6-Tribromophenol	125	Q	122	Q	10-120
4-Terphenyl-d14	102		102		41-149

PCBS

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-01
Client ID: MW-8
Sample Location: NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/05/17 13:28
Analyst: HT

Date Collected: 09/28/17 12:33
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/04/17 13:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-02
Client ID: MW-9
Sample Location: NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/05/17 13:45
Analyst: HT

Date Collected: 09/28/17 13:50
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/04/17 13:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-03
Client ID: MW-6
Sample Location: NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/05/17 14:01
Analyst: HT

Date Collected: 09/28/17 14:47
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/04/17 13:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-04
Client ID: MW-5
Sample Location: NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/05/17 14:18
Analyst: JA

Date Collected: 09/28/17 16:11
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/04/17 13:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	0.233		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	0.233		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	26	Q	30-150	A
Decachlorobiphenyl	16	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	22	Q	30-150	B
Decachlorobiphenyl	18	Q	30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-04 **RE**
Client ID: MW-5
Sample Location: NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/06/17 15:17
Analyst: JA

Date Collected: 09/28/17 16:11
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/06/17 05:48
Cleanup Method: EPA 3665A
Cleanup Date: 10/06/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/06/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.086	0.020	1	A
Aroclor 1221	ND		ug/l	0.086	0.033	1	A
Aroclor 1232	ND		ug/l	0.086	0.028	1	A
Aroclor 1242	ND		ug/l	0.086	0.031	1	A
Aroclor 1248	ND		ug/l	0.086	0.023	1	A
Aroclor 1254	ND		ug/l	0.086	0.036	1	A
Aroclor 1260	0.439		ug/l	0.086	0.021	1	B
Aroclor 1262	ND		ug/l	0.086	0.018	1	A
Aroclor 1268	ND		ug/l	0.086	0.028	1	A
PCBs, Total	0.439		ug/l	0.086	0.018	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	20	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	42		30-150	B
Decachlorobiphenyl	30		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-05
Client ID: CHA-1
Sample Location: NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/05/17 14:35
Analyst: HT

Date Collected: 09/28/17 13:00
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/04/17 13:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-06
Client ID: FB-2017
Sample Location: NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/05/17 14:51
Analyst: HT

Date Collected: 09/28/17 12:00
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/04/17 13:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-07
Client ID: MW-2
Sample Location: NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/06/17 02:46
Analyst: HT

Date Collected: 09/29/17 09:31
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 10:22
Cleanup Method: EPA 3665A
Cleanup Date: 10/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-08
Client ID: MW-1
Sample Location: NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/06/17 03:02
Analyst: HT

Date Collected: 09/29/17 08:58
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 10:22
Cleanup Method: EPA 3665A
Cleanup Date: 10/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-09
Client ID: MW-4
Sample Location: NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/06/17 03:19
Analyst: HT

Date Collected: 09/29/17 10:30
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 10:22
Cleanup Method: EPA 3665A
Cleanup Date: 10/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-10
Client ID: WC-2017
Sample Location: NY

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 10/06/17 17:38
Analyst: JA

Date Collected: 09/29/17 10:45
Date Received: 09/29/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 10/05/17 18:00
Cleanup Method: EPA 3665A
Cleanup Date: 10/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/06/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/05/17 09:53
Analyst: JA

Extraction Method: EPA 3510C
Extraction Date: 10/04/17 13:17
Cleanup Method: EPA 3665A
Cleanup Date: 10/05/17
Cleanup Method: EPA 3660B
Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06 Batch: WG1048832-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 10/05/17 13:56
 Analyst: JA

Extraction Method: EPA 3510C
 Extraction Date: 10/05/17 03:52
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/05/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 10 Batch: WG1049069-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	31		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	29	Q	30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 10/06/17 00:00
 Analyst: HT

Extraction Method: EPA 3510C
 Extraction Date: 10/05/17 10:22
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/05/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/05/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 07-09 Batch: WG1049225-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 10/06/17 14:10
 Analyst: WR

Extraction Method: EPA 3510C
 Extraction Date: 10/06/17 05:48
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/06/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/06/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 04 Batch: WG1049541-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	63		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** DELAVAL ANNUAL GROUNDWATER**Lab Number:** L1734998**Project Number:** 30114**Report Date:** 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1048832-2 WG1048832-3									
Aroclor 1016	95		99		40-140	5		50	A
Aroclor 1260	106		109		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		88		30-150	A
Decachlorobiphenyl	76		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		84		30-150	B
Decachlorobiphenyl	80		82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL ANNUAL GROUNDWATER

Project Number: 30114

Lab Number: L1734998

Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 10 Batch: WG1049069-2 WG1049069-3									
Aroclor 1016	84		86		40-140	3		50	A
Aroclor 1260	75		84		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		86		30-150	A
Decachlorobiphenyl	56		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		86		30-150	B
Decachlorobiphenyl	56		69		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** DELAVAL ANNUAL GROUNDWATER**Lab Number:** L1734998**Project Number:** 30114**Report Date:** 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 07-09 Batch: WG1049225-2 WG1049225-3									
Aroclor 1016	100		100		40-140	0		50	A
Aroclor 1260	94		86		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		75		30-150	A
Decachlorobiphenyl	74		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		78		30-150	B
Decachlorobiphenyl	69		63		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL ANNUAL GROUNDWATER

Project Number: 30114

Lab Number: L1734998

Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04 Batch: WG1049541-2 WG1049541-3									
Aroclor 1016	69		73		40-140	5		50	A
Aroclor 1260	55		60		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		70		30-150	A
Decachlorobiphenyl	41		44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		66		30-150	B
Decachlorobiphenyl	63		63		30-150	B

METALS

Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-01

Date Collected: 09/28/17 12:33

Client ID: MW-8

Date Received: 09/29/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.003	J	mg/l	0.005	0.002	1	10/05/17 13:15	10/06/17 15:11	EPA 3005A	1,6010C	PS
Barium, Total	0.070		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:11	EPA 3005A	1,6010C	PS
Cadmium, Total	ND		mg/l	0.005	0.001	1	10/05/17 13:15	10/06/17 15:11	EPA 3005A	1,6010C	PS
Chromium, Total	ND		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:11	EPA 3005A	1,6010C	PS
Lead, Total	0.005	J	mg/l	0.010	0.003	1	10/05/17 13:15	10/06/17 15:11	EPA 3005A	1,6010C	PS
Mercury, Total	0.00008	J	mg/l	0.00020	0.00006	1	10/06/17 14:18	10/09/17 14:14	EPA 7470A	1,7470A	MG
Selenium, Total	0.005	J	mg/l	0.010	0.004	1	10/05/17 13:15	10/06/17 15:11	EPA 3005A	1,6010C	PS
Silver, Total	ND		mg/l	0.007	0.003	1	10/05/17 13:15	10/06/17 15:11	EPA 3005A	1,6010C	PS



Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-02

Date Collected: 09/28/17 13:50

Client ID: MW-9

Date Received: 09/29/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.007		mg/l	0.005	0.002	1	10/05/17 13:15	10/06/17 15:16	EPA 3005A	1,6010C	PS
Barium, Total	0.102		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:16	EPA 3005A	1,6010C	PS
Cadmium, Total	0.002	J	mg/l	0.005	0.001	1	10/05/17 13:15	10/06/17 15:16	EPA 3005A	1,6010C	PS
Chromium, Total	0.003	J	mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:16	EPA 3005A	1,6010C	PS
Lead, Total	0.007	J	mg/l	0.010	0.003	1	10/05/17 13:15	10/06/17 15:16	EPA 3005A	1,6010C	PS
Mercury, Total	0.00011	J	mg/l	0.00020	0.00006	1	10/06/17 14:18	10/09/17 14:19	EPA 7470A	1,7470A	MG
Selenium, Total	0.005	J	mg/l	0.010	0.004	1	10/05/17 13:15	10/06/17 15:16	EPA 3005A	1,6010C	PS
Silver, Total	ND		mg/l	0.007	0.003	1	10/05/17 13:15	10/06/17 15:16	EPA 3005A	1,6010C	PS



Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-03

Date Collected: 09/28/17 14:47

Client ID: MW-6

Date Received: 09/29/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.007		mg/l	0.005	0.002	1	10/05/17 13:15	10/06/17 15:20	EPA 3005A	1,6010C	PS
Barium, Total	0.085		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:20	EPA 3005A	1,6010C	PS
Cadmium, Total	0.001	J	mg/l	0.005	0.001	1	10/05/17 13:15	10/06/17 15:20	EPA 3005A	1,6010C	PS
Chromium, Total	0.005	J	mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:20	EPA 3005A	1,6010C	PS
Lead, Total	0.074		mg/l	0.010	0.003	1	10/05/17 13:15	10/06/17 15:20	EPA 3005A	1,6010C	PS
Mercury, Total	0.00103		mg/l	0.00020	0.00006	1	10/06/17 14:18	10/09/17 14:20	EPA 7470A	1,7470A	MG
Selenium, Total	ND		mg/l	0.010	0.004	1	10/05/17 13:15	10/06/17 15:20	EPA 3005A	1,6010C	PS
Silver, Total	ND		mg/l	0.007	0.003	1	10/05/17 13:15	10/06/17 15:20	EPA 3005A	1,6010C	PS



Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-04

Date Collected: 09/28/17 16:11

Client ID: MW-5

Date Received: 09/29/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.013		mg/l	0.005	0.002	1	10/05/17 13:15	10/06/17 15:25	EPA 3005A	1,6010C	PS
Barium, Total	0.259		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:25	EPA 3005A	1,6010C	PS
Cadmium, Total	0.002	J	mg/l	0.005	0.001	1	10/05/17 13:15	10/06/17 15:25	EPA 3005A	1,6010C	PS
Chromium, Total	0.102		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:25	EPA 3005A	1,6010C	PS
Lead, Total	0.390		mg/l	0.010	0.003	1	10/05/17 13:15	10/06/17 15:25	EPA 3005A	1,6010C	PS
Mercury, Total	0.00083		mg/l	0.00020	0.00006	1	10/06/17 14:18	10/09/17 14:22	EPA 7470A	1,7470A	MG
Selenium, Total	0.004	J	mg/l	0.010	0.004	1	10/05/17 13:15	10/06/17 15:25	EPA 3005A	1,6010C	PS
Silver, Total	ND		mg/l	0.007	0.003	1	10/05/17 13:15	10/06/17 15:25	EPA 3005A	1,6010C	PS



Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-05

Date Collected: 09/28/17 13:00

Client ID: CHA-1

Date Received: 09/29/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.006		mg/l	0.005	0.002	1	10/05/17 13:15	10/06/17 15:29	EPA 3005A	1,6010C	PS
Barium, Total	0.064		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:29	EPA 3005A	1,6010C	PS
Cadmium, Total	0.001	J	mg/l	0.005	0.001	1	10/05/17 13:15	10/06/17 15:29	EPA 3005A	1,6010C	PS
Chromium, Total	ND		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:29	EPA 3005A	1,6010C	PS
Lead, Total	0.004	J	mg/l	0.010	0.003	1	10/05/17 13:15	10/06/17 15:29	EPA 3005A	1,6010C	PS
Mercury, Total	0.00007	J	mg/l	0.00020	0.00006	1	10/06/17 14:18	10/09/17 14:24	EPA 7470A	1,7470A	MG
Selenium, Total	0.007	J	mg/l	0.010	0.004	1	10/05/17 13:15	10/06/17 15:29	EPA 3005A	1,6010C	PS
Silver, Total	ND		mg/l	0.007	0.003	1	10/05/17 13:15	10/06/17 15:29	EPA 3005A	1,6010C	PS



Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-06

Date Collected: 09/28/17 12:00

Client ID: FB-2017

Date Received: 09/29/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.002	J	mg/l	0.005	0.002	1	10/05/17 13:15	10/06/17 15:33	EPA 3005A	1,6010C	PS
Barium, Total	ND		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:33	EPA 3005A	1,6010C	PS
Cadmium, Total	ND		mg/l	0.005	0.001	1	10/05/17 13:15	10/06/17 15:33	EPA 3005A	1,6010C	PS
Chromium, Total	ND		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:33	EPA 3005A	1,6010C	PS
Lead, Total	ND		mg/l	0.010	0.003	1	10/05/17 13:15	10/06/17 15:33	EPA 3005A	1,6010C	PS
Mercury, Total	ND		mg/l	0.00020	0.00006	1	10/06/17 14:18	10/09/17 14:26	EPA 7470A	1,7470A	MG
Selenium, Total	ND		mg/l	0.010	0.004	1	10/05/17 13:15	10/06/17 15:33	EPA 3005A	1,6010C	PS
Silver, Total	ND		mg/l	0.007	0.003	1	10/05/17 13:15	10/06/17 15:33	EPA 3005A	1,6010C	PS



Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-07

Date Collected: 09/29/17 09:31

Client ID: MW-2

Date Received: 09/29/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.003	J	mg/l	0.005	0.002	1	10/05/17 13:15	10/06/17 15:38	EPA 3005A	1,6010C	PS
Barium, Total	0.104		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:38	EPA 3005A	1,6010C	PS
Cadmium, Total	ND		mg/l	0.005	0.001	1	10/05/17 13:15	10/06/17 15:38	EPA 3005A	1,6010C	PS
Chromium, Total	0.011		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:38	EPA 3005A	1,6010C	PS
Lead, Total	0.034		mg/l	0.010	0.003	1	10/05/17 13:15	10/06/17 15:38	EPA 3005A	1,6010C	PS
Mercury, Total	0.00007	J	mg/l	0.00020	0.00006	1	10/06/17 14:18	10/09/17 14:31	EPA 7470A	1,7470A	MG
Selenium, Total	ND		mg/l	0.010	0.004	1	10/05/17 13:15	10/06/17 15:38	EPA 3005A	1,6010C	PS
Silver, Total	ND		mg/l	0.007	0.003	1	10/05/17 13:15	10/06/17 15:38	EPA 3005A	1,6010C	PS



Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-08

Date Collected: 09/29/17 08:58

Client ID: MW-1

Date Received: 09/29/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.057		mg/l	0.005	0.002	1	10/05/17 13:15	10/06/17 15:42	EPA 3005A	1,6010C	PS
Barium, Total	1.69		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:42	EPA 3005A	1,6010C	PS
Cadmium, Total	0.011		mg/l	0.005	0.001	1	10/05/17 13:15	10/06/17 15:42	EPA 3005A	1,6010C	PS
Chromium, Total	0.146		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:42	EPA 3005A	1,6010C	PS
Lead, Total	1.51		mg/l	0.010	0.003	1	10/05/17 13:15	10/06/17 15:42	EPA 3005A	1,6010C	PS
Mercury, Total	0.00152		mg/l	0.00020	0.00006	1	10/06/17 14:18	10/09/17 14:33	EPA 7470A	1,7470A	MG
Selenium, Total	ND		mg/l	0.010	0.004	1	10/05/17 13:15	10/06/17 15:42	EPA 3005A	1,6010C	PS
Silver, Total	0.010		mg/l	0.007	0.003	1	10/05/17 13:15	10/06/17 15:42	EPA 3005A	1,6010C	PS



Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-09

Date Collected: 09/29/17 10:30

Client ID: MW-4

Date Received: 09/29/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.025		mg/l	0.005	0.002	1	10/05/17 13:15	10/06/17 15:46	EPA 3005A	1,6010C	PS
Barium, Total	0.382		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:46	EPA 3005A	1,6010C	PS
Cadmium, Total	0.003	J	mg/l	0.005	0.001	1	10/05/17 13:15	10/06/17 15:46	EPA 3005A	1,6010C	PS
Chromium, Total	0.049		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:46	EPA 3005A	1,6010C	PS
Lead, Total	4.62		mg/l	0.010	0.003	1	10/05/17 13:15	10/06/17 15:46	EPA 3005A	1,6010C	PS
Mercury, Total	0.00465		mg/l	0.00020	0.00006	1	10/06/17 14:18	10/09/17 14:34	EPA 7470A	1,7470A	MG
Selenium, Total	0.005	J	mg/l	0.010	0.004	1	10/05/17 13:15	10/06/17 15:46	EPA 3005A	1,6010C	PS
Silver, Total	ND		mg/l	0.007	0.003	1	10/05/17 13:15	10/06/17 15:46	EPA 3005A	1,6010C	PS



Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

SAMPLE RESULTS

Lab ID: L1734998-10

Date Collected: 09/29/17 10:45

Client ID: WC-2017

Date Received: 09/29/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.022		mg/l	0.005	0.002	1	10/05/17 13:15	10/06/17 15:51	EPA 3005A	1,6010C	PS
Barium, Total	0.287		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 15:51	EPA 3005A	1,6010C	PS
Cadmium, Total	0.002	J	mg/l	0.005	0.001	1	10/05/17 13:15	10/06/17 15:51	EPA 3005A	1,6010C	PS
Chromium, Total	0.0098	J	mg/l	0.0100	0.0021	1	10/05/17 13:15	10/06/17 15:51	EPA 3005A	1,6010C	PS
Lead, Total	0.235		mg/l	0.010	0.003	1	10/05/17 13:15	10/06/17 15:51	EPA 3005A	1,6010C	PS
Mercury, Total	0.00026		mg/l	0.00020	0.00006	1	10/06/17 14:18	10/09/17 14:36	EPA 7470A	1,7470A	MG
Selenium, Total	ND		mg/l	0.010	0.004	1	10/05/17 13:15	10/06/17 15:51	EPA 3005A	1,6010C	PS
Silver, Total	ND		mg/l	0.007	0.003	1	10/05/17 13:15	10/06/17 15:51	EPA 3005A	1,6010C	PS



Project Name: DELAVAL ANNUAL GROUNDWATER

Lab Number: L1734998

Project Number: 30114

Report Date: 10/09/17

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): 01-10 Batch: WG1049248-1										
Arsenic, Total	ND		mg/l	0.005	0.002	1	10/05/17 13:15	10/06/17 11:08	1,6010C	PS
Barium, Total	ND		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 11:08	1,6010C	PS
Cadmium, Total	ND		mg/l	0.005	0.001	1	10/05/17 13:15	10/06/17 11:08	1,6010C	PS
Chromium, Total	ND		mg/l	0.010	0.002	1	10/05/17 13:15	10/06/17 11:08	1,6010C	PS
Lead, Total	ND		mg/l	0.010	0.003	1	10/05/17 13:15	10/06/17 11:08	1,6010C	PS
Selenium, Total	ND		mg/l	0.010	0.004	1	10/05/17 13:15	10/06/17 11:08	1,6010C	PS
Silver, Total	ND		mg/l	0.007	0.003	1	10/05/17 13:15	10/06/17 11:08	1,6010C	PS

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): 01-10 Batch: WG1049726-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	10/06/17 14:18	10/09/17 15:00	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1049248-2								
Arsenic, Total	107		-		80-120	-		
Barium, Total	96		-		80-120	-		
Cadmium, Total	102		-		80-120	-		
Chromium, Total	96		-		80-120	-		
Lead, Total	101		-		80-120	-		
Selenium, Total	107		-		80-120	-		
Silver, Total	101		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1049726-2								
Mercury, Total	108		-		80-120	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

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): 01-10 QC Batch ID: WG1049248-3 WG1049248-4 QC Sample: L1734815-01 Client ID: MS Sample												
Arsenic, Total	0.006	0.12	0.130	103		0.135	107		75-125	4		20
Barium, Total	0.019	2	1.92	95		1.95	96		75-125	2		20
Cadmium, Total	ND	0.051	0.051	100		0.052	102		75-125	1		20
Chromium, Total	ND	0.2	0.190	95		0.192	96		75-125	1		20
Lead, Total	ND	0.51	0.511	100		0.520	102		75-125	2		20
Selenium, Total	ND	0.12	0.128	107		0.128	107		75-125	0		20
Silver, Total	ND	0.05	0.050	100		0.050	100		75-125	0		20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1049726-3 QC Sample: L1734998-01 Client ID: MW-8												
Mercury, Total	0.00008J	0.005	0.00514	103		-	-		75-125	-		20

Project Name: DELAVAL ANNUAL GROUNDWATER**Project Number:** 30114**Lab Duplicate Analysis****Batch Quality Control****Lab Number:** L1734998**Report Date:** 10/09/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1049726-4 QC Sample: L1734998-01 Client ID: MW-8						
Mercury, Total	0.00008J	0.00007J	mg/l	NC		20

Project Name: DELAVAL ANNUAL GROUNDWATER**Lab Number:** L1734998**Project Number:** 30114**Report Date:** 10/09/17**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

B Absent

C Absent

D Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1734998-01A	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-01B	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-01C	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-01D	Plastic 250ml HNO3 preserved	B	<2	<2	4.5	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)
L1734998-01E	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-01F	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-01H	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-01I	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-02A	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-02B	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-02C	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-02D	Plastic 250ml HNO3 preserved	B	<2	<2	4.5	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)
L1734998-02E	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-02F	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-02H	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-02I	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-03A	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-03B	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Serial_No:10091718:03
Lab Number: L1734998
Report Date: 10/09/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1734998-03C	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-03D	Plastic 250ml HNO3 preserved	D	<2	<2	5.0	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)
L1734998-03E	Amber 1000ml unpreserved	D	7	7	5.0	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-03F	Amber 1000ml unpreserved	D	7	7	5.0	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-03H	Amber 1000ml unpreserved	D	7	7	5.0	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-03I	Amber 1000ml unpreserved	D	7	7	5.0	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-04A	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-04B	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-04C	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-04D	Plastic 250ml HNO3 preserved	D	<2	<2	5.0	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)
L1734998-04E	Amber 1000ml unpreserved	D	7	7	5.0	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-04F	Amber 1000ml unpreserved	D	7	7	5.0	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-04H	Amber 1000ml unpreserved	D	7	7	5.0	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-04I	Amber 1000ml unpreserved	D	7	7	5.0	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-05A	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-05B	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-05C	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-05D	Plastic 250ml HNO3 preserved	B	<2	<2	4.5	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)
L1734998-05E	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-05F	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-05H	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-05I	Amber 1000ml unpreserved	B	7	7	4.5	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-06A	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-06B	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-06C	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Serial_No:10091718:03
Lab Number: L1734998
Report Date: 10/09/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1734998-06D	Plastic 250ml HNO3 preserved	C	<2	<2	2.7	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)
L1734998-06E	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-06F	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-06H	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-06I	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-07A	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-07B	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-07C	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-07D	Plastic 250ml HNO3 preserved	C	<2	<2	2.7	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)
L1734998-07E	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-07F	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-07H	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-07I	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-08A	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-08B	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-08C	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-08D	Plastic 250ml HNO3 preserved	C	<2	<2	2.7	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)
L1734998-08E	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-08F	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-08H	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-08I	Amber 1000ml unpreserved	C	7	7	2.7	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-09A	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-09B	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-09C	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-09D	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	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)

Project Name: DELAVAL ANNUAL GROUNDWATER**Lab Number:** L1734998**Project Number:** 30114**Report Date:** 10/09/17**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1734998-09E	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-09F	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-09H	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-09I	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-10A	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-10B	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-10C	Vial HCl preserved	B	NA		4.5	Y	Absent		NYTCL-8260-R2(14)
L1734998-10D	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	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)
L1734998-10E	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-10F	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8082-1200ML(7)
L1734998-10H	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-10I	Amber 1000ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1734998-11A	Vial HCl preserved	B	NA		4.5	Y	Absent		HOLD-8260(14),NYTCL-8260-R2(14)
L1734998-11B	Vial HCl preserved	B	NA		4.5	Y	Absent		HOLD-8260(14),NYTCL-8260-R2(14)

Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

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

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.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

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.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: DELAVAL ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

Data Qualifiers

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 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 ANNUAL GROUNDWATER
Project Number: 30114

Lab Number: L1734998
Report Date: 10/09/17

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.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.**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.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****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, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 1 of 1		Date Rec'd in Lab <u>9/30/17</u>		ALPHA Job # <u>C1734998</u>																																																																																																																																																																																																					
		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																																																																																																																																																																																																									
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 Annual Groundwater Project Location: NY Project # <u>30114</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #																																																																																																																																																																																																							
		Project Manager: Candace Fox ALPHAQuote #: <u>3533 e1003</u> Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		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: Trip Blank Included		ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles																																																																																																																																																																																																							
Please specify Metals or TAL.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">NYTLC-8260</th> <th rowspan="2">NYTCL-8270</th> <th rowspan="2">NYTCL-8082</th> <th rowspan="2">TRCRA8 Metals</th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr><td>34998-01</td><td>MW-8</td><td>9/28/17</td><td>1233</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>02</td><td>MW-9</td><td>9/28/17</td><td>1350</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>03</td><td>MW-10</td><td>9/28/17</td><td>1447</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>04</td><td>MW-5</td><td>9/28/17</td><td>1411</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>05</td><td>CHA-1</td><td>9/28/17</td><td>1300</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>06</td><td>FB-2017</td><td>9/28/17</td><td>1200</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>07</td><td>MW-2</td><td>9/29/17</td><td>0931</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>08</td><td>MW-1</td><td>9/29/17</td><td>0858</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>09</td><td>MW-4</td><td>9/28/17</td><td>1030</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>WC-2017</td><td>9/28/17</td><td>1045</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	NYTLC-8260	NYTCL-8270	NYTCL-8082	TRCRA8 Metals									Date	Time	34998-01	MW-8	9/28/17	1233	Water		X	X	X	X									02	MW-9	9/28/17	1350	Water		X	X	X	X									03	MW-10	9/28/17	1447	Water		X	X	X	X									04	MW-5	9/28/17	1411	Water		X	X	X	X									05	CHA-1	9/28/17	1300	Water		X	X	X	X									06	FB-2017	9/28/17	1200	Water		X	X	X	X									07	MW-2	9/29/17	0931	Water		X	X	X	X									08	MW-1	9/29/17	0858	Water		X	X	X	X									09	MW-4	9/28/17	1030	Water		X	X	X	X									10	WC-2017	9/28/17	1045	Water		X	X	X	X									Sample Specific Comments	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection				Sample Matrix	Sampler's Initials															NYTLC-8260	NYTCL-8270	NYTCL-8082	TRCRA8 Metals																																																																																																																																																																																				
		Date	Time																																																																																																																																																																																																										
34998-01	MW-8	9/28/17	1233	Water		X	X	X	X																																																																																																																																																																																																				
02	MW-9	9/28/17	1350	Water		X	X	X	X																																																																																																																																																																																																				
03	MW-10	9/28/17	1447	Water		X	X	X	X																																																																																																																																																																																																				
04	MW-5	9/28/17	1411	Water		X	X	X	X																																																																																																																																																																																																				
05	CHA-1	9/28/17	1300	Water		X	X	X	X																																																																																																																																																																																																				
06	FB-2017	9/28/17	1200	Water		X	X	X	X																																																																																																																																																																																																				
07	MW-2	9/29/17	0931	Water		X	X	X	X																																																																																																																																																																																																				
08	MW-1	9/29/17	0858	Water		X	X	X	X																																																																																																																																																																																																				
09	MW-4	9/28/17	1030	Water		X	X	X	X																																																																																																																																																																																																				
10	WC-2017	9/28/17	1045	Water		X	X	X	X																																																																																																																																																																																																				
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O 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		Container Type Preservative		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.																																																																																																																																																																																																					
Relinquished By: <u>[Signature]</u>		Date/Time: <u>9/29/2017 12:47</u>		Received By: <u>[Signature]</u>		Date/Time: <u>9/29/17 12:47</u>		Date/Time: <u>9/30/17 0925</u>																																																																																																																																																																																																					

