

2019 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

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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.....	6
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	12
3.3	Compliance with Performance Standards	12
4.0	OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS	15

LIST OF TABLES

Table 3-1 Analytical Summary Table.....	13
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	Groundwater Sampling Logs
Appendix E	Waste Disposal Documentation
Appendix F	Laboratory Analytical Report

LIST OF ACRONYMS

ACM	Asbestos Containing Material
AOC	Area of Concern
CHA	CHA Consulting, Inc.
EPA	Environmental Protection Agency
ERP	Environmental Restoration Program
LNAPL	Light Non-Aqueous Phase Liquid
MOSF	Major Oil Storage Facility
NYSDEC	New York State Department of Environmental Conservation
OGS	Office of General Services
PCB	Polychlorinated Biphenyl
PID	Photoionization Detector
PRR	Periodic Review Report
RAO	Remedial Action Objectives
RCRA	Resource Conservation and Recovery Act
SAC	State Assistance Contract
SMP	Site Management Plan
STP	Sewage Treatment Plant
SVOC	Semi-volatile Organic Compound
TCL	Target Compound List
TMP	Tax Map Parcel
VOC	Volatile Organic Compound

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 most 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 summer of 2019.

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

The Site was observed to be in overall good condition at the time of the most recent site-wide inspection, conducted on July 18, 2019. 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 June 2018. It is

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

The groundwater analytical results from the July 2019 monitoring event indicate that concentrations of the contaminants of concern are below established New York State Groundwater Ambient Water Quality Standards 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; and the following metals: arsenic, barium, chromium, lead, mercury, and selenium.

No changes to the remedy or operation & maintenance plans are recommended at this time; however, CHA recommends a change to the monitoring plan.

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, with several changes. CHA recommends elimination of sampling of wells MW-6, MW-8, and MW-9 due to a consistent trend of low frequency of detections and exceedances. However, we recommend these wells continue to be gauged for water levels in the future. Additionally, CHA recommends eliminating analysis for VOCs from the annual monitoring event due to the lack of exceedances since the beginning of the monitoring program.

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 later amended (Amendment No. 1) to include reimbursement of a portion of incurred costs for the remedial design and remedial action. The Hudson River Waterfront - DeLaval Property, hereinafter referred to as the "Site" (also referred to as NYSDEC Site No. B00190-3), was remediated to commercial-use levels only, which includes passive recreational uses. This Periodic Review Report (PRR) is required as an element of the NYSDEC-approved Site Management Plan (SMP) developed for the Site and documents the annual groundwater monitoring event and site-wide inspection completed at the Site during the summer of 2019.

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 Zones (Zones 1 – 5) and 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 strip 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 many of the Site structures sometime between 1962 and 1967.

1.2 NATURE AND EXTENT OF CONTAMINATION

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

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

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

- **AOC-1:** An area of petroleum-impacted soil and groundwater near the southern end of the Site that paralleled the Hudson River, approximately 0.8-acre in size. An industrial landfill/construction & demolition debris disposal area that extended eastward of the petroleum-impacted soils to a bedrock outcrop along the east side of the Site was located above the petroleum-impacted area.
- **AOC-2/3:** An area of petroleum-impacted soil and groundwater in the central portion of the Site that paralleled the Hudson River, approximately 2.4-acres in size. An abandoned 14-inch oil pipeline and an approximately 400-gallon underground

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

- **AOC-4:** An area adjacent to a former Paint Shop along the eastern border of the Site where solvent-like odors were observed during one of the investigations and several semivolatile organic compounds (SVOCs) were detected in the soil samples. Additional investigation in this area was unable to replicate these observations, so no remediation was completed in this area.
- **AOC-4A:** An area measuring approximately 32-feet wide by 50-feet long of petroleum contamination that was encountered adjacent to the western side of AOC-4 while investigating for the potential presence of additional oil pipelines extending southward on the Site from AOC-2/3 during the construction activities at the Site. Migration of the contamination in this area appeared to have been hindered by the presence of several subsurface concrete foundation walls.
- **AOC-5:** A small area of petroleum contamination encountered near the south end of the Site immediately adjacent to the eastern concrete retaining wall that runs parallel to the Site during the installation of Storm Manhole No. STMH-1. Sanborn mapping indicated the presence of a former “oil house” in this location which likely contributed to the contamination encountered in this area.
- **Shoreline:** Two small areas of petroleum contamination were encountered during the subgrade excavation for the revetment in Zone 2. Similarly, two small areas of petroleum contamination were also encountered in Zone 4 during the revetment subgrade excavation. The limits of the petroleum contamination were reached and removed 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 development of the Site is limited to commercial and passive recreational uses only.

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

In the following subsections, CHA summarizes the major observations made during the July 18, 2019 Site inspection. The Sitewide Inspection Checklist is included in Appendix B. The next inspection of these controls is scheduled to occur during the summer of 2020.

2.1.1 Inspection of Cover System

Overall, the soil cover system appeared to be in good condition. Vegetation has grown to considerable height and should be monitored for damage to the cover system. At this time, no significant damage from vegetation was noted. Evidence of vectors, including burrowing vectors, were not present during the inspection. The portions of the Site covered with Item No. 4 run-of-crush material and other stone products had evidence of scour along the top of the bulkheads. The stone products covering the remainder of the Site did not appear to be disturbed. Photographs documenting the site cover are included in Appendix C.

2.1.2 Inspection of Bulkheads

CHA observed the current condition of the bulkheads just after low tide conditions from a boat provided by the City of Poughkeepsie. The above-water portions of the Zone 1 and Zone 3 bulkheads were observed to be in good condition. The concrete collars around the outfalls were observed to be in good condition.

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 two-thirds of the Zone 3 bulkhead. This gap along with cracks in the precast concrete cap was previously noted during a site inspection conducted in November 2013 and the width of the gap has not changed since the previous inspection in June 2018. 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. The crack in the precast concrete cap is at a joint between two concrete cap and is due to the small deflection of the bulkhead. 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.

Ultrasonic testing of the thickness of the steel sheet piles and underwater inspections of the bulkheads were not performed during this monitoring period. Ultrasonic testing will occur as part of the 2020 annual event, and the underwater inspection will occur in 2025, per the schedule provided in the SMP.

2.1.3 Inspection of Riprap Revetment

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

2.1.4 Inspection of Monitoring Well Network

All monitoring wells were observed to be in generally good condition. 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 June 2018.
 - 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. While this will make future installation of electrical services difficult, it does not appear to have impacted the Site remedy.
 - c. A pile of concrete rubble and a storage container were observed near the wall on the east side of the Site.

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 remaining contaminants in soil and groundwater at the Site to the public. The SMP is being implemented and based on this review, the remedy continues to be protective of public health and/or the environment and compliant

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

3.0 MONITORING PLAN COMPLIANCE REPORT

3.1 COMPONENTS OF THE MONITORING PLAN

Components of the Monitoring Plan include:

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

3.2 MONITORING COMPLETED DURING REPORTING PERIOD

3.2.1 Groundwater Monitoring Activities

On July 18 and 19, 2019, 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.

Prior to conducting groundwater level measurements on July 18, 2019, 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 the day of the well gauging activities, the time of high tide for the Hudson River at Poughkeepsie was reported as 2:50 p.m. Water level data were collected between 10:45 a.m. and 5:10 p.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 installed, and therefore 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 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 increase in water elevation along the western portion of the Site when the tide is coming in.

Monitoring wells MW-1, MW-2, MW-4R, MW-5, MW-8 and MW-9 were purged and sampled using bailers. Monitoring well MW-6 was purged and sampled using a submersible pump and low-flow/minimal drawdown methods. In previous monitoring events, low-flow/minimal drawdown techniques were utilized to purge and sample each monitoring well, but equipment malfunction at the Site prevented use of the low-flow pump for six of the seven wells sampled. Consideration for these changes in the sampling technique will be taken when analyzing the data. During well purging, at approximate intervals of one well volume, CHA personnel monitored and recorded field parameters including temperature, pH, specific conductance, dissolved oxygen, and turbidity. Wells were purged until three well volumes were extracted, or until purged dry. For low-flow purging methods at well MW-6, CHA monitored the same parameters at three to five-minute intervals. Upon stabilization, groundwater samples were collected in laboratory-provided, pre-preserved containers. A new bailer was used at each well to prevent cross-contamination between groundwater monitoring wells.

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

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

Upon completion of field activities, CHA transported the samples under chain-of-custody protocol to Alpha Analytical Inc.’s (Alpha) service center in Albany, New York. The samples were then transported by Alpha to their laboratory in Westborough, Massachusetts for analysis. All groundwater samples and the field blank sample were analyzed for:

- Target Contaminant List (TCL) VOCs by Environmental Protection Agency (EPA) Method 8260
- TCL SVOCs by EPA Method 8270
- PCBs by EPA Method 8082; and,
- Resource Conservation and Recovery Act (RCRA) 8 metals.

Corbett Industrial Cleaning Services, Inc. (Corbett) collected one drum of containerized purge water from the Site on September 4, 2019 for off-site disposal. A copy of the waste disposal documentation (Bill of Lading) is included in Appendix E.

3.2.2 Groundwater Monitoring Results

No evidence of organic vapors, LNAPL, or petroleum sheen was observed at any of the monitoring well locations during the July 2019 monitoring event. This is consistent with results from the June 2018 monitoring event.

Groundwater analytical results (detected compounds only) are summarized in Table 3-1 on the following page while the complete original laboratory data packages are included in Appendix F.

As shown in Table 3-1 on the following page, multiple SVOCs and metals were detected during this sampling event. Concentrations of the following six SVOCs were detected above their respective NYSDEC Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values (Class GA): benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene.

Metals detected above standards included arsenic, barium, chromium, lead, mercury, and selenium. The detection of RCRA 8 metals, particularly barium, chromium, mercury, and selenium, is inconsistent with previous monitoring events at this Site. Metals are adsorbed to soil particles in groundwater samples. The change in sampling method from low-flow/minimal drawdown to the use of bailers is likely the cause of the increase in metals detections. Bailers agitate the groundwater and generally cause higher turbidity in the groundwater sample. Additionally, in comparing the purging summary (Appendix D.3) to previous years', the turbidity of some wells, particularly wells MW-1, MW-2, and MW-4, is higher during this sampling event compared to historical sampling events.

VOCs were not detected above their applicable standards during this sampling event, which is consistent with previous sampling events. Acetone was detected at low concentration in every sample, which likely indicates a laboratory contaminant rather than a contaminant of concern on Site.

Total PCBs were detected at concentrations exceeding the applicable standard in monitoring well MW-1. Historically, PCBs have been detected at concentrations exceeding the standard in wells

MW-5 and MW-6. Similar to metals, PCBs adsorb to soil particles. The detection in MW-1 during this event could be associated with increased turbidity.

3.2.3 Groundwater Monitoring Trends

Groundwater analytical trends (detected compounds only) are summarized in Table 3-2 and the complete laboratory data package is included in Appendix G. Up-gradient wells, MW-4R, MW-8 and MW-9 indicate stable or decreasing trends for SVOCs and metals. The contaminant concentrations in monitoring wells MW-1, MW-2, MW-5, and MW-6 generally indicate stable concentrations for SVOCs over the annual groundwater monitoring events from 2015 to 2019. Metals concentrations were found to be generally higher than previous monitoring events, but this is likely associated with the change in sampling technique. Continued groundwater monitoring will determine if the change in sampling technique caused the increase in some metal concentrations.

3.3 COMPLIANCE WITH PERFORMANCE STANDARDS

The groundwater analytical results from the July 2019 monitoring event indicate that there are several contaminants of concern detected at concentrations that exceed the established New York State Groundwater Ambient Water Quality Standards and/or Guidance Values (Class GA). It is recommended that the groundwater monitoring program be continued to evaluate groundwater quality on the Site and potential trends in residual contaminant concentrations.

After completion of 5 years of groundwater monitoring, CHA recommends changes in environmental monitoring going forward, as follows:

- Eliminate analysis for VOCs in all wells as no VOCs have been detected in exceedance of standards or guidance values since monitoring started.
- Eliminate sampling of wells MW-6, MW-8, and MW-9 from the monitoring network due to a consistent trend of low frequency of detections and exceedances. However, we recommend these wells continue to be gauged for water levels in the future.

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	7/18/2019	7/18/2019	7/18/2019	7/18/2019	7/18/2019	7/18/2019	7/18/2019
Semivolatile Organics									
Acenaphthene	20	µg/l	0.41	0.03 J	0.48	0.04 J	0.4		
Anthracene	50	µg/l	0.74	0.18	1.3	0.12	0.02 J	0.03 J	0.02 J
Benzo(a)anthracene	0.002	µg/l	2.2	1.2	3.8	0.48	0.04 J	0.08 J	
Benzo(a)pyrene	0	µg/l	2.3	1.3	3.4	0.51	0.03 J	0.08 J	
Benzo(b)fluoranthene	0.002	µg/l	3.1	1.7	4.1	0.65	0.04 J	0.13	
Benzo(ghi)perylene		µg/l	1.9	0.91	2.3	0.4	0.03 J	0.07 J	
Benzo(k)fluoranthene	0.002	µg/l	1.0	0.54	1.4	0.22	0.02 J	0.05 J	
Bis(2-ethylhexyl)phthalate	5	µg/l	1.9 J			1.7 J			
Caprolactam		µg/l	100	160	130	230			
Chrysene	0.002	µg/l	2.2	1.1	3.5	0.45	0.03 J	0.08 J	
Fluoranthene	50	µg/l	4.3	2	7.5	0.87	0.06 J	0.11	0.04 J
Indeno(1,2,3-cd)pyrene	0.002	µg/l	2.0	1.0	2.5	0.43	0.02 J	0.07 J	
Phenanthrene	50	µg/l	2.5	0.54	5.4	0.49	0.04 J	0.04 J	0.03 J
Pyrene	50	µg/l	4	2	7	0.2	0.13		0.03 J
Total Metals									
Arsenic, Total	25	µg/l	34.3	4.87	21.97	0.82	1.57	11.2	7.56
Barium, Total	1000	µg/l	1149	151.9	255.9	38.7	49.1	137	116
Cadmium, Total	5	µg/l	3.24	0.85	0.48		0.25	0.19 J	2.04
Chromium, Total	50	µg/l	50.9	7.33	20.2	0.67 J	1.33	17.8	4.95
Lead, Total	25	µg/l	2050	116.9	326.2	4.25	15.9	30.1	7.15
Mercury, Total	0.7	µg/l	0.82	0.13 J	0.78				
Selenium, Total	10	µg/l	5.48	1.83 J	17.4			6.1	6.53
Silver, Total	50	µg/l	5.87		0.27 J				0.52

NOTES:

Samples were collected by CHA Consulting, Inc. on July 18, 2019 and analyzed by Alpha Analytical

New York TOGS 1.1.1. Ambient Water Quality Standards and Guidance Values criteria reflects all addendum to criteria through June 2004.

Values highlighted in blue indicate exceedance of TOGS 1.1.1 Ambient Water Quality Standards (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

4.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

The Site was observed to be in overall good condition at the time of the most recent sitewide inspection, conducted on July 18, 2019. Specific observations are noted below:

- Significant cracks were noted on the top of the bulkhead.
- Stone along the bulkhead has eroded and compacted.
- The wells still lack permanent protective casings; however, the casings will be installed after the site is developed.

These observations have been previously reported and do not represent new conditions.

No additional development of the Site has occurred since the last inspection in June 2018.

Evaluation of Remedy Performance, Effectiveness & Protectiveness

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

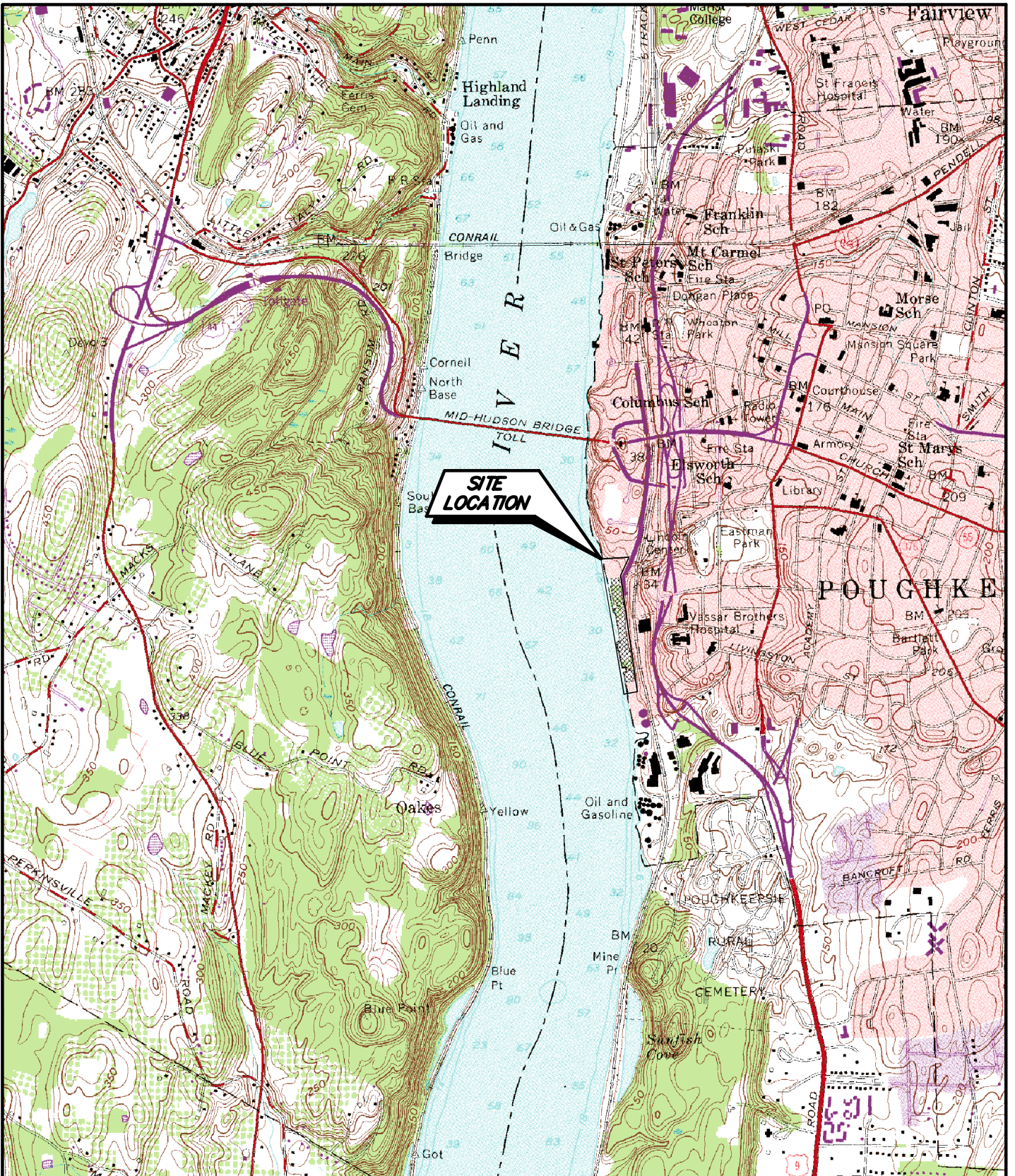
The results of groundwater sampling conducted in July 2019 (described in detail in Section 3.2) indicate that the remedy continues to be effective in achieving the RAOs for groundwater.

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. No changes to the remedy or operation & maintenance plans are recommended at this time; however, CHA recommends a change to the monitoring plan. CHA recommends elimination of sampling of wells MW-6, MW-8, and MW-9 due to the consistent trend of relatively low frequency of detections and exceedances. However, water level will continue to be gauged at these wells. Additionally, CHA recommends eliminating analysis of VOCs from all wells in the annual monitoring event due to the lack of exceedances since the beginning of the monitoring program.

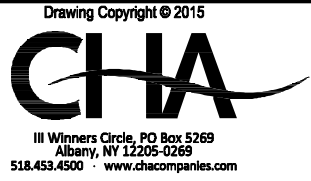
FIGURES

File: V:\PROJECTS\ANY\K4\30114\CADD\FIGURES\ENVIRONMENTAL\30114_FIGURE_1.DWG Saved: 7/31/2018 10:50:17 AM Plotted: 7/31/2018 10:50:22 AM User: Cascio, Angela



SOURCE: U.S.G.S. QUADRANGLE
QUADRANGLE: POUGHKEEPSIE, NEW YORK

SCALE: 1"=2000'



SITE LOCATION MAP

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

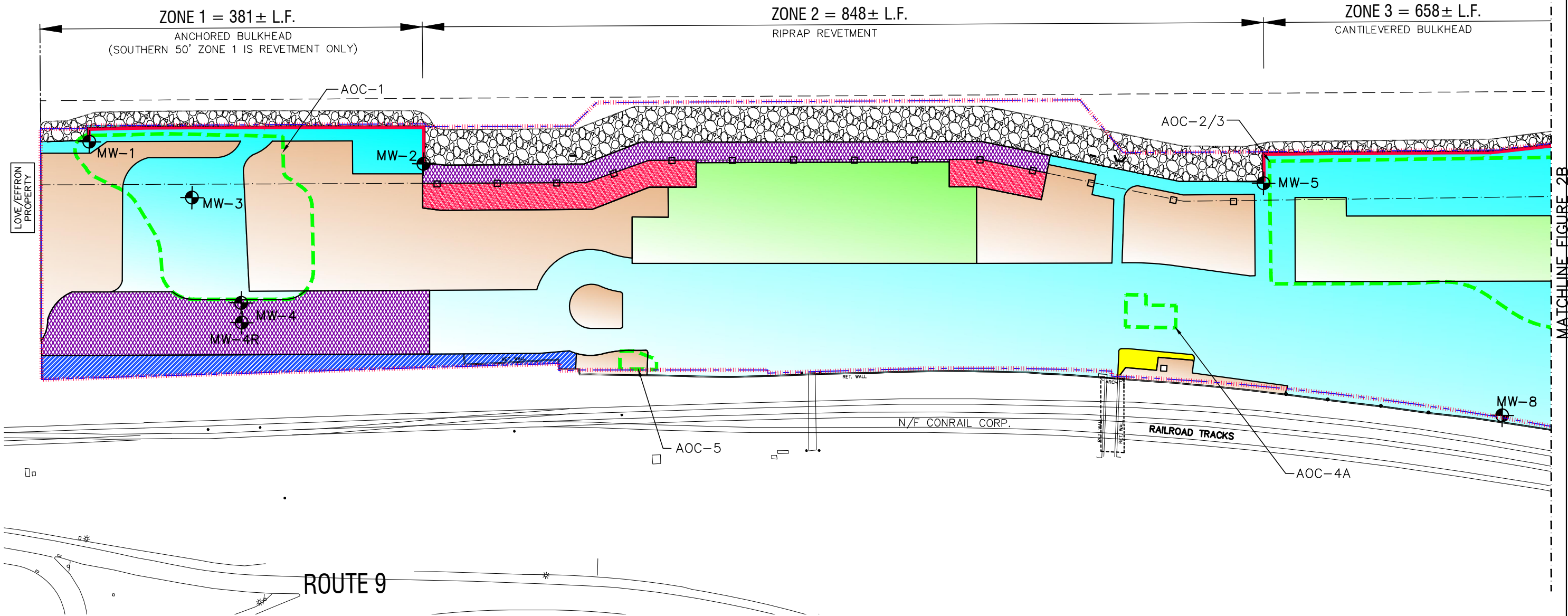
PROJECT NO.
30114

DATE: 2017

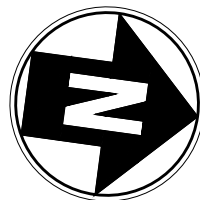
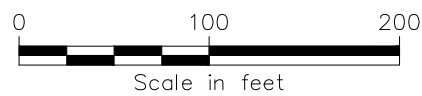
FIGURE 1

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

HUDSON RIVER



MATCHLINE FIGURE 2B



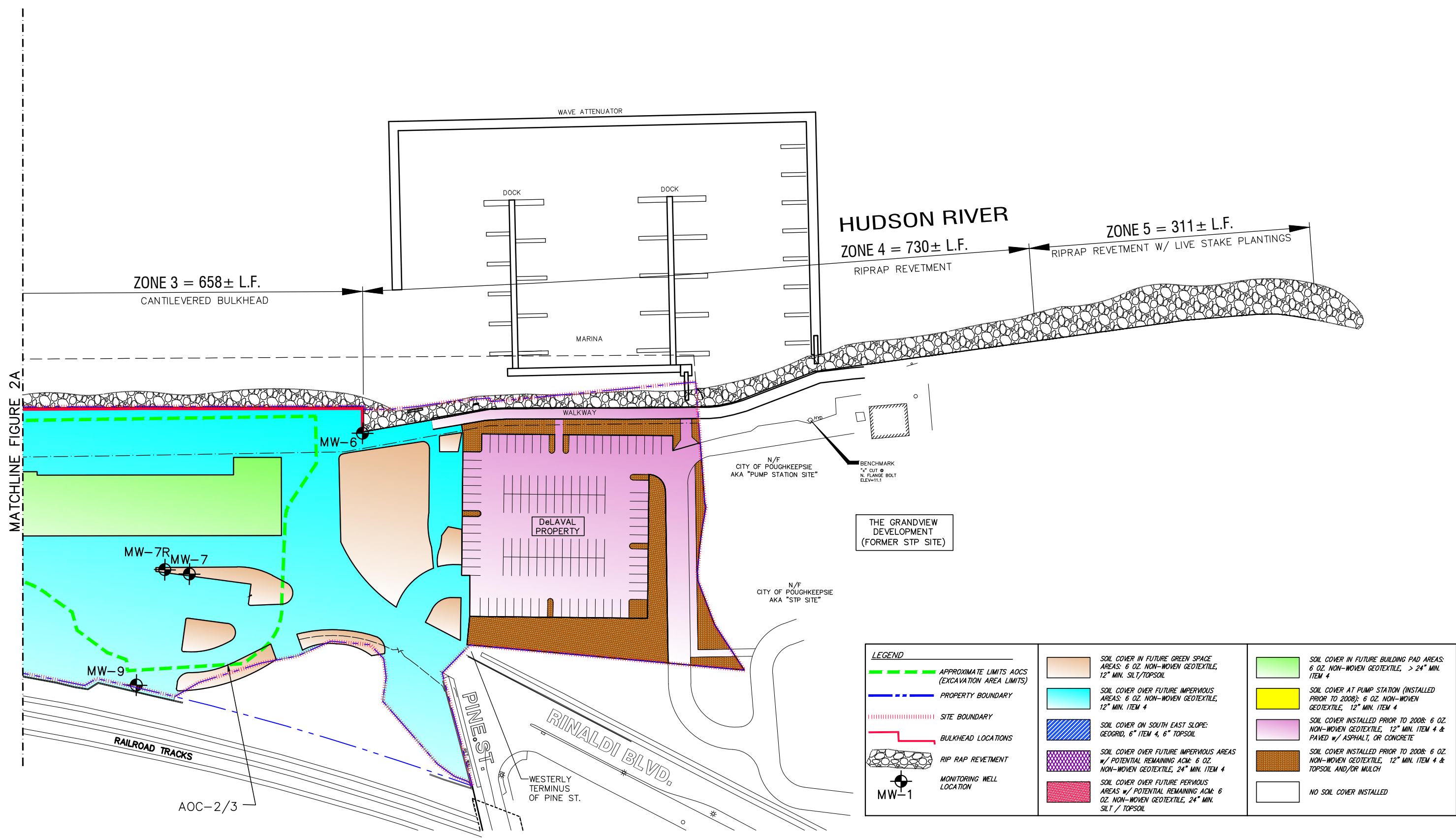
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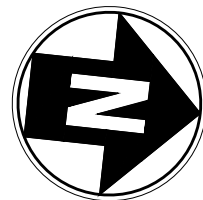
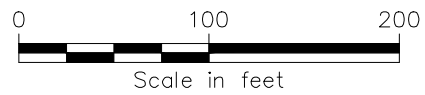
SOIL COVER SYSTEM & MONITORING WELL LOCATION MAP

202-204 RINALDI BLVD
CITY OF POUGHKEEPSIE, NEW YORK

PROJECT NO. 30114
DATE: OCT. 2019
FIGURE 2A



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



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**SOIL COVER SYSTEM &
MONITORING WELL LOCATION MAP**

202-204 RINALDI BOULEVARD
CITY OF POUGHKEEPSIE, NEW YORK

PROJECT NO. 30114
DATE: OCT. 2019
FIGURE 2B

APPENDIX A

Institutional & Engineering Controls Certification Forms



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1
Site No.	B00190	
Site Name Hudson River Waterfront-DeLaval Property		
Site Address: 202-204 Rinaldi Blvd. Zip Code: 12601- City/Town: Poughkeepsie (C) County: Dutchess Site Acreage: 13.6		
Reporting Period: January 2019 to December 2019		
		YES NO
1. Is the information above correct?		<input checked="" type="checkbox"/> <input type="checkbox"/>
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?		<input type="checkbox"/> <input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		<input type="checkbox"/> <input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input type="checkbox"/> <input checked="" type="checkbox"/>
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?		<input type="checkbox"/> <input checked="" type="checkbox"/>
		Box 2
		YES NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial		<input checked="" type="checkbox"/> <input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?		<input checked="" type="checkbox"/> <input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.		
A Corrective Measures Work Plan must be submitted along with this form to address these issues.		
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date

SITE NO. B00190

Box 3

Description of Institutional Controls

Parcel

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 Controls

Box 4

Parcel

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

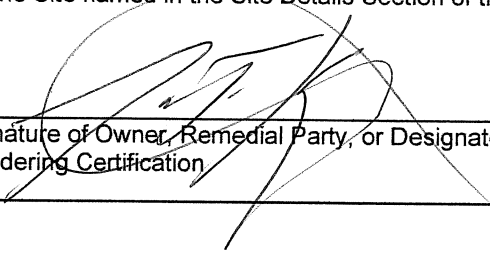
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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 KANE at CITY OF Poughkeepsie ENGINEERING
print name print business address

am certifying as DESIGNATED REPRESENTATIVE (^{FOR}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

12/03/2019
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 S. State St. Suite 600, Syracuse, New York 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



Stamp
(Required for PE)

12/09/19
Date

APPENDIX B

Sitewide Inspection Checklist



SITE-WIDE INSPECTION CHECKLIST

Report No. 005

Date: 07/18/2019

Time: 2:30 PM

Site Name: DeLaval ERP Site

NYSDEC Site No. B00190-3

Address: 202-204 Rinalidi Blvd, Poughkeepsie, NY, 12601

Project No. 30114

Inspector(s): S. Miller, E. Wos

Weather:

Temp.: Hi 75°F Low 73°F

Time Low Tide: 3:00 PM

Type of Inspection: Routine Post Severe Condition

SOIL COVER SYSTEM INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
There is no evidence of erosion of cover soils/materials from Site surface.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stone along the bulkhead has eroded - see photos
There is no evidence of depressions in cover materials.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Same comment as above
There is no evidence of significant cracks in cover materials.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Significant crack in the top of a bulkhead
There is no evidence of exposed or damaged demarcation barrier.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of vapors or odors emanating from the Site.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VEGETATIVE INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
Vegetation is well established over greenspace areas.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of stressed vegetation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of bare or thin vegetative cover.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of overgrowth or areas that need to be mowed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of recent areas of excavation or disturbed areas.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VECTOR INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
No vectors or vector activity (e.g. tracks, droppings, dens, etc.) were observed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There was no evidence of damage to the soil cover system due to vector activity.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

DRAINAGE SYSTEM INSPECTION

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



SITE-WIDE INSPECTION CHECKLIST

Report No. 005

Date: 07/18/2019

Time: 2:30 PM

BULKHEAD INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
There is no evidence of significant movement or deflections of bulkheads.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	One bulkhead appears to be angled towards the Hudson, see photos
There is no evidence of damage to the sheet piles through impacts from boats, ice, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of leaks from interlocks.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of significant coating damage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of significant corrosion.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no significant damage to the precast caps (e.g. cracks, spalling, etc.).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	One appears to be angled towards the Hudson, see photos
There is no evidence of scour, erosion, cracks, or settlement behind the bulkheads.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of a loss of toe protection stone from the front of the bulkheads (to extent visible at surface).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no visible evidence of sheen in the vicinity of the bulkheads.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of significant damage to the stormwater outfalls or associated concrete collars.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of flow restriction at the outfalls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of sheen emanating from the outfalls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

REVTMENT INSPECTION

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

MONITORING WELL INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
The monitoring wells are in generally good condition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Well caps are installed on the wells.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Locks present and secured.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Locks

SITE ACCESSIBILITY INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
Site accessible and passable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



SITE-WIDE INSPECTION CHECKLIST

Report No. 005

Date: 07/18/2019

Time: 2:30 PM

INSTITUTIONAL CONTROL INSPECTION

ITEM/CONDITION	TRUE	FALSE	N/A	COMMENTS
The Site continues to be utilized for commercial and passive recreational uses only.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is no evidence of groundwater extraction and/or use on Site.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

ADDITIONAL NOTES & OBSERVATIONS

Cracking and angling of bulkhead is similar to previous inspections and does not appear to have gotten any worse.

Signature: *Samantha Miller*

Total Inspection Time: 1 hr

APPENDIX C

Site Photographs



Photograph 1. Site overview facing north.



Photograph 2. Site overview facing south.



SITE PHOTOGRAPHS
DeLaval Property
202-204 Rinaldi Boulevard
Poughkeepsie, New York



Photograph 3. Items stored on site.



Photograph 4. Stone drive near bulkheads.



SITE PHOTOGRAPHS
DeLaval Property
202-204 Rinaldi Boulevard
Poughkeepsie, New York



Photograph 5. Spreading between bulkhead caps.



Photograph 6. Slight tilting of bulkhead cap.



SITE PHOTOGRAPHS
DeLaval Property
202-204 Rinaldi Boulevard
Poughkeepsie, New York



Photograph 7. Zone 3 Bulkhead.



Photograph 8. Rip rap along the Hudson River



SITE PHOTOGRAPHS
DeLaval Property
202-204 Rinaldi Boulevard
Poughkeepsie, New York



Photograph 9. Zone 1 Bulkhead.



Photograph 10. Crack at a joint in the precast concrete caps on top of the bulkhead.



SITE PHOTOGRAPHS
DeLaval Property
202-204 Rinaldi Boulevard
Poughkeepsie, New York

APPENDIX D

Groundwater Sampling Logs

Appendix D.1

Depth to Groundwater Measurements

DeLaval Property - July 2019 Groundwater Sampling Event

CHA Project No.: 30114

Well ID	Measuring Point	Measurement Time	Depth to Water	Comments
MW-1	TOR	14:19	6.17	No free product
MW-2	TOR	13:15	6.61	No free product
MW-3	TOR	14:40	10.33	No free product
MW-4R	TOR	14:46	19.54	No free product
MW-5	TOR	12:28	7.01	No free product
MW-6	TOR	10:48	6.93	No free product
MW-7	TOR	15:21	10.7	No free product
MW-8	TOR	15:29	12.11	No free product
MW-9	TOR	16:06	10.65	No free product

Appendix D.2
Sampling Summary

DeLaval Property - July 2019 Groundwater Sampling Event
CHA Project No.: 30114

Well ID	Sampling Method	Sampling Time	Sample Analyses	Number of Bottles	QA/QC	QA/QC Sample ID	QA/QC Sample Time
MW-1	Bailer	14:40	VOCs, SVOCs, PCBs, Metals	8	no		
MW-2	Bailer	13:25	VOCs, SVOCs, PCBs, Metals	16	yes	CHA001	13:30
MW-4	Bailer	15:05	VOCs, SVOCs, PCBs, Metals	8	no		
MW-5	Bailer	16:55	VOCs, SVOCs, PCBs, Metals	8	no		
MW-6	Submersible	12:05	VOCs, SVOCs, PCBs, Metals	8	no		
MW-8	Bailer	15:40	VOCs, SVOCs, PCBs, Metals	8	no		
MW-9	Bailer	16:30	VOCs, SVOCs, PCBs, Metals	8	no		

Appendix D.3
Sample Purging Summary
DeLaval Property - July 2019 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)
MW-1	Bailer	14:24	-244	3.07	0.625	1000	0.4	22.4
		14:26	-236	7.88	0.74	1000	0.474	20.7
		14:28	-241	7.81	0.758	1000	0.484	20.12
MW-2	Bailer	13:22	62	7.51	0.537	1000	0.344	23.91
		13:23	61	7.65	0.689	1000	0.441	20.01
		13:24	64	7.63	0.758	643	0.485	19.13
MW-4	Bailer	14:54	38	7.99	0.883	1000	0.571	22.86
		14:56	42	7.81	2.33	1000	1.5	16.59
		14:58	52	7.47	2.37	1000	1.51	15.55
MW-5	Bailer	12:36	79	7.29	0.239	217	1.6	21.91
		13:02	71	6.85	0.294	1000	0.191	23.01
MW-6	Submersible	11:23	51	7.37	0.32	426	2.8	20.98
		11:26	13	7.55	0.308	316	1.74	20.96
		11:29	2	7.62	0.307	217	1.35	21.04
		11:32	-12	7.69	0.305	165	1.24	21.07
		11:35	-23	7.71	0.306	128	1.34	21705
		11:38	-37	7.74	0.307	94.8	0.91	20.87
		11:41	-53	7.67	0.308	61	0.8	20.88
		11:45	-71	7.78	0.309	41.3	0.83	20.91
		11:48	-79	7.78	0.309	30	0.56	20.96
		11:50	-88	7.78	0.309	23.1	0.51	20.84
		11:54	-100	7.79	0.31	13.4	0.35	20.82
		11:57	-106	7.8	0.312	10.5	0.35	20.88
		12:00	-107	7.8	0.312	7.96	0.89	21.18
12:03	-111	7.82	0.314	6.85	0.38	21.38		
MW-8	Bailer	15:37	40	7.88	0.617	795	0.395	18.16
		15:39	42	7.85	0.579	960	0.371	16.29
		15:42	45	7.69	0.583	850	0.373	15.94
MW-9	Bailer	16:15	63	8.13	0.779	214	0.5	16.87
		16:18	74	7.97	0.807	123	0.516	15.24
		16:21	82	7.73	0.777	99.5	0.499	14.89

APPENDIX E

Waste Disposal Documentation



SHIPPING DOCUMENT	1. Generator ID Number C E S Q G N Y	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00605389		
5. Generator's Name and Mailing Address DELAVAL 202-204 RINALDI BOULEVARD POUGHKEEPSIE, NY 12601 Generator's Phone 518 688-7393		Generator's Site Address (if different than mailing address) SAME				
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS			U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9			
7. Transporter 2 Company Name FREEHOLD CARTAGE INC			U.S. EPA ID Number N J D 0 5 4 1 2 6 1 6 4			
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 125 FACTORY LANE MIDDLESEX, NJ 08846			U.S. EPA ID Number N J D 0 0 2 4 5 4 5 4 4			
Facility's Phone: 732 469-5100						
GENERATOR	9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Codes
		No.	Type			
	1. NON RCRA AND DOT NON REGULATED LIQUID					ID72
	2.	1	D M	4 0 0	P	
	3.					
14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + 1) W: 363470 A:MARWATER-NH						
15. 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/Officer's Printed/Typed Name JOSEPH KANE		Signature 		Month	Day	Year
				0 9	0 4	1 9
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
	17. Transporter Acknowledgment of Receipt of Shipment					
Transporter 1 Printed/Typed Name Robert Loucheart		Signature 		Month	Day	Year
				9	4	19
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	Shipping Document Tracking Number: _____					
	18b. Alternate Facility (or Generator)			U.S. EPA ID Number		
	Facility's Phone: _____					
18c. Signature of Alternate Facility (or Generator)				Month	Day	Year
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)						
1	2	3	4			
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a						
Printed/Typed Name		Signature		Month	Day	Year

APPENDIX F

Laboratory Analytical Report



ANALYTICAL REPORT

Lab Number:	L1931995
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
Project Number:	30114.1005.44200
Report Date:	08/08/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1931995-01	MW-1	WATER	POUGHKEEPSIE, NY	07/18/19 14:40	07/19/19
L1931995-02	MW-2	WATER	POUGHKEEPSIE, NY	07/18/19 13:25	07/19/19
L1931995-03	MW-4	WATER	POUGHKEEPSIE, NY	07/18/19 15:05	07/19/19
L1931995-04	MW-5	WATER	POUGHKEEPSIE, NY	07/18/19 16:55	07/19/19
L1931995-05	MW-6	WATER	POUGHKEEPSIE, NY	07/18/19 12:05	07/19/19
L1931995-06	MW-8	WATER	POUGHKEEPSIE, NY	07/18/19 15:40	07/19/19
L1931995-07	MW-9	WATER	POUGHKEEPSIE, NY	07/18/19 16:30	07/19/19
L1931995-08	CHA 001	WATER	POUGHKEEPSIE, NY	07/18/19 13:00	07/19/19
L1931995-09	WASTE CHAR 2019	WATER	POUGHKEEPSIE, NY	07/18/19 16:45	07/19/19
L1931995-10	TRIP BLANK	WATER	POUGHKEEPSIE, NY	07/18/19 00:00	07/19/19

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Case Narrative (continued)

Report Submission

August 08, 2019: This final report includes the results of all requested analyses.

August 01, 2019: This is a preliminary report.

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

Sample Receipt

L1931995-10: A sample identified as "TRIP BLANK" was received but not listed on the Chain of Custody. This sample was not analyzed.

PCBs

L1931995-07: The surrogate recoveries were outside the acceptance criteria for decachlorobiphenyl (23%28%); however, re-extraction could not be performed due to lack of additional sample. The results of the original analysis 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 Sturgis

Title: Technical Director/Representative

Date: 08/08/19

ORGANICS

VOLATILES

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-01
 Client ID: MW-1
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 14:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/25/19 11:08
 Analyst: MKS

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

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-01
Client ID: MW-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 14:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	4.0	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	88		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	100		70-130

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-02
 Client ID: MW-2
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:25
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/25/19 11:33
 Analyst: MKS

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

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-02
Client ID: MW-2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:25
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	4.0	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	91		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	101		70-130

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-03
Client ID: MW-4
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:05
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/25/19 11:58
Analyst: MKS

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	0.88		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-03
Client ID: MW-4
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:05
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	2.7	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	92		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	102		70-130

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-04
Client ID: MW-5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:55
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/25/19 12:23
Analyst: MKS

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

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-04
Client ID: MW-5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:55
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	4.2	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	93		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	101		70-130

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-05
 Client ID: MW-6
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 12:05
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/25/19 12:48
 Analyst: MKS

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

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-05
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 12:05
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	4.4	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	93		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	103		70-130

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-06
Client ID: MW-8
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/25/19 13:13
Analyst: MKS

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

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-06
Client ID: MW-8
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	7.1		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	95		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	102		70-130

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-07
Client ID: MW-9
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:30
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/25/19 13:39
Analyst: MKS

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

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-07
Client ID: MW-9
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:30
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	95		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	104		70-130

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-08
Client ID: CHA 001
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:00
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/25/19 14:04
Analyst: MKS

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

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-08
Client ID: CHA 001
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:00
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	4.7	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	98		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	103		70-130

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-09
Client ID: WASTE CHAR 2019
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:45
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/25/19 14:29
Analyst: MKS

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	17		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

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-09
Client ID: WASTE CHAR 2019
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:45
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	6.9		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	97		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	104		70-130

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/25/19 08:11
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1264664-5					
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
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/25/19 08:11
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1264664-5					
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
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/25/19 08:11
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1264664-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1264664-3 WG1264664-4								
Methylene chloride	80		81		70-130	1		20
1,1-Dichloroethane	84		83		70-130	1		20
Chloroform	83		82		70-130	1		20
Carbon tetrachloride	99		97		63-132	2		20
1,2-Dichloropropane	84		84		70-130	0		20
Dibromochloromethane	91		91		63-130	0		20
1,1,2-Trichloroethane	77		78		70-130	1		20
Tetrachloroethene	98		95		70-130	3		20
Chlorobenzene	89		87		75-130	2		20
Trichlorofluoromethane	88		85		62-150	3		20
1,2-Dichloroethane	85		86		70-130	1		20
1,1,1-Trichloroethane	89		87		67-130	2		20
Bromodichloromethane	82		82		67-130	0		20
trans-1,3-Dichloropropene	69	Q	68	Q	70-130	1		20
cis-1,3-Dichloropropene	75		76		70-130	1		20
Bromoform	78		78		54-136	0		20
1,1,2,2-Tetrachloroethane	77		78		67-130	1		20
Benzene	84		84		70-130	0		20
Toluene	83		81		70-130	2		20
Ethylbenzene	83		82		70-130	1		20
Chloromethane	97		98		64-130	1		20
Bromomethane	62		60		39-139	3		20
Vinyl chloride	88		85		55-140	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1264664-3 WG1264664-4								
Chloroethane	78		76		55-138	3		20
1,1-Dichloroethene	90		88		61-145	2		20
trans-1,2-Dichloroethene	90		89		70-130	1		20
Trichloroethene	86		84		70-130	2		20
1,2-Dichlorobenzene	94		95		70-130	1		20
1,3-Dichlorobenzene	94		93		70-130	1		20
1,4-Dichlorobenzene	93		93		70-130	0		20
Methyl tert butyl ether	84		85		63-130	1		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	91		89		70-130	2		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	110		100		36-147	10		20
Acetone	87		89		58-148	2		20
Carbon disulfide	82		79		51-130	4		20
2-Butanone	82		86		63-138	5		20
4-Methyl-2-pentanone	80		82		59-130	2		20
2-Hexanone	80		79		57-130	1		20
Bromochloromethane	100		100		70-130	0		20
1,2-Dibromoethane	86		87		70-130	1		20
1,2-Dibromo-3-chloropropane	79		82		41-144	4		20
Isopropylbenzene	90		90		70-130	0		20
1,2,3-Trichlorobenzene	92		98		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1264664-3 WG1264664-4								
1,2,4-Trichlorobenzene	91		92		70-130	1		20
Methyl Acetate	86		89		70-130	3		20
Cyclohexane	100		100		70-130	0		20
1,4-Dioxane	104		108		56-162	4		20
Freon-113	100		98		70-130	2		20
Methyl cyclohexane	91		90		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		95		70-130
Toluene-d8	93		92		70-130
4-Bromofluorobenzene	89		89		70-130
Dibromofluoromethane	103		104		70-130

SEMIVOLATILES

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-01
Client ID: MW-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 14:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/25/19 11:38
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.9	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-01
Client ID: MW-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 14:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	100		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	77		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-01
Client ID: MW-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 14:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/24/19 19:36
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.41		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	4.3		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.27		ug/l	0.10	0.05	1
Benzo(a)anthracene	2.2		ug/l	0.10	0.02	1
Benzo(a)pyrene	2.3		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	3.1		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	1.0		ug/l	0.10	0.01	1
Chrysene	2.2		ug/l	0.10	0.01	1
Acenaphthylene	0.58		ug/l	0.10	0.01	1
Anthracene	0.74		ug/l	0.10	0.01	1
Benzo(ghi)perylene	1.9		ug/l	0.10	0.01	1
Fluorene	0.33		ug/l	0.10	0.01	1
Phenanthrene	2.5		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.45		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	2.0		ug/l	0.10	0.01	1
Pyrene	4.0		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.20		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-01
 Client ID: MW-1
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 14:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	77		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-02
Client ID: MW-2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:25
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/25/19 09:28
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-02
Client ID: MW-2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:25
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	160		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	13	Q	21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	14		10-120
4-Terphenyl-d14	74		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-02
 Client ID: MW-2
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:25
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/24/19 19:53
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/23/19 17:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.03	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	2.0		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	1.2		ug/l	0.10	0.02	1
Benzo(a)pyrene	1.3		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	1.7		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.54		ug/l	0.10	0.01	1
Chrysene	1.1		ug/l	0.10	0.01	1
Acenaphthylene	0.24		ug/l	0.10	0.01	1
Anthracene	0.18		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.91		ug/l	0.10	0.01	1
Fluorene	0.05	J	ug/l	0.10	0.01	1
Phenanthrene	0.54		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.22		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	1.0		ug/l	0.10	0.01	1
Pyrene	2.0		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-02
 Client ID: MW-2
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:25
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	28		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	32		10-120
4-Terphenyl-d14	76		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-03
Client ID: MW-4
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:05
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/25/19 11:13
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-03
Client ID: MW-4
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:05
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	130		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	26		10-120
4-Terphenyl-d14	71		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-03
 Client ID: MW-4
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:05
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/24/19 20:10
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/23/19 17:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.48		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	7.5		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.26		ug/l	0.10	0.05	1
Benzo(a)anthracene	3.8		ug/l	0.10	0.02	1
Benzo(a)pyrene	3.4		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	4.1		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	1.4		ug/l	0.10	0.01	1
Chrysene	3.5		ug/l	0.10	0.01	1
Acenaphthylene	0.35		ug/l	0.10	0.01	1
Anthracene	1.3		ug/l	0.10	0.01	1
Benzo(ghi)perylene	2.3		ug/l	0.10	0.01	1
Fluorene	0.42		ug/l	0.10	0.01	1
Phenanthrene	5.4		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.57		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	2.5		ug/l	0.10	0.01	1
Pyrene	7.0		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.24		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-03
 Client ID: MW-4
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:05
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	55		10-120
4-Terphenyl-d14	74		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-04
Client ID: MW-5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:55
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/25/19 09:01
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.7	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-04
Client ID: MW-5
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:55
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	290	E	ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	31		10-120
4-Terphenyl-d14	84		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-04
 Client ID: MW-5
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:55
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/24/19 20:27
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/23/19 17:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.04	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.87		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.07	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.48		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.51		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.65		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.22		ug/l	0.10	0.01	1
Chrysene	0.45		ug/l	0.10	0.01	1
Acenaphthylene	0.12		ug/l	0.10	0.01	1
Anthracene	0.12		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.40		ug/l	0.10	0.01	1
Fluorene	0.05	J	ug/l	0.10	0.01	1
Phenanthrene	0.49		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.09	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.43		ug/l	0.10	0.01	1
Pyrene	0.82		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-04
 Client ID: MW-5
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:55
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	55		10-120
4-Terphenyl-d14	82		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-04 D
 Client ID: MW-5
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:55
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 08/01/19 03:37
 Analyst: CB

Extraction Method: EPA 3510C
 Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	230		ug/l	50	16.	5

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-05
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 12:05
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/25/19 06:45
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-05
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 12:05
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	84		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-05
 Client ID: MW-6
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 12:05
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/24/19 20:44
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/23/19 17:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.40		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.06	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.05	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.03	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.03	J	ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.13		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-05
 Client ID: MW-6
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 12:05
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	83		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-06
 Client ID: MW-8
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 07/25/19 07:13
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-06
Client ID: MW-8
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	79		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-06
Client ID: MW-8
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/24/19 21:01
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.11		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.08	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.08	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.13		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.05	J	ug/l	0.10	0.01	1
Chrysene	0.08	J	ug/l	0.10	0.01	1
Acenaphthylene	0.06	J	ug/l	0.10	0.01	1
Anthracene	0.03	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.07	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.07	J	ug/l	0.10	0.01	1
Pyrene	0.11		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-06
 Client ID: MW-8
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	77		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-07
Client ID: MW-9
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:30
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/25/19 10:21
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-07
 Client ID: MW-9
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	29		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	22		10-120
4-Terphenyl-d14	79		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-07
 Client ID: MW-9
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/24/19 21:18
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/23/19 17:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-07
 Client ID: MW-9
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	50		10-120
4-Terphenyl-d14	84		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-08
Client ID: CHA 001
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:00
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/25/19 07:40
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-08
 Client ID: CHA 001
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	21.		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	25		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	22		10-120
4-Terphenyl-d14	84		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-08
Client ID: CHA 001
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:00
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/24/19 21:35
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.54		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.05	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.33		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.34		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.43		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.15		ug/l	0.10	0.01	1
Chrysene	0.29		ug/l	0.10	0.01	1
Acenaphthylene	0.06	J	ug/l	0.10	0.01	1
Anthracene	0.05	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.23		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.17		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.06	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.26		ug/l	0.10	0.01	1
Pyrene	0.52		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-08
 Client ID: CHA 001
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	33		10-120
4-Terphenyl-d14	81		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-09
 Client ID: WASTE CHAR 2019
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 07/25/19 10:47
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	4.5		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	0.42	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	1.5	J	ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-09
 Client ID: WASTE CHAR 2019
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	52.		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	40		10-120
4-Terphenyl-d14	69		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-09
 Client ID: WASTE CHAR 2019
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/24/19 21:52
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/23/19 17:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.23		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	3.6		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.24		ug/l	0.10	0.05	1
Benzo(a)anthracene	1.9		ug/l	0.10	0.02	1
Benzo(a)pyrene	2.0		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	2.8		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.78		ug/l	0.10	0.01	1
Chrysene	1.9		ug/l	0.10	0.01	1
Acenaphthylene	0.50		ug/l	0.10	0.01	1
Anthracene	0.55		ug/l	0.10	0.01	1
Benzo(ghi)perylene	1.6		ug/l	0.10	0.01	1
Fluorene	0.23		ug/l	0.10	0.01	1
Phenanthrene	2.0		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.37		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	1.8		ug/l	0.10	0.01	1
Pyrene	3.4		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.14		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-09
 Client ID: WASTE CHAR 2019
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	72		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D-SIM
Analytical Date: 07/24/19 17:20
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-09 Batch: WG1263497-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/24/19 17:20
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-09 Batch: WG1263497-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	93		41-149

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/24/19 10:34
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1263499-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 07/24/19 10:34
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 17:43

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1263499-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	93		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 Batch: WG1263497-2 WG1263497-3								
Acenaphthene	84		75		40-140	11		40
2-Chloronaphthalene	87		77		40-140	12		40
Fluoranthene	87		80		40-140	8		40
Hexachlorobutadiene	73		60		40-140	20		40
Naphthalene	83		69		40-140	18		40
Benzo(a)anthracene	84		80		40-140	5		40
Benzo(a)pyrene	86		81		40-140	6		40
Benzo(b)fluoranthene	85		81		40-140	5		40
Benzo(k)fluoranthene	89		83		40-140	7		40
Chrysene	80		74		40-140	8		40
Acenaphthylene	72		73		40-140	1		40
Anthracene	85		79		40-140	7		40
Benzo(ghi)perylene	81		76		40-140	6		40
Fluorene	87		79		40-140	10		40
Phenanthrene	83		77		40-140	8		40
Dibenzo(a,h)anthracene	87		83		40-140	5		40
Indeno(1,2,3-cd)pyrene	84		81		40-140	4		40
Pyrene	87		80		40-140	8		40
2-Methylnaphthalene	87		75		40-140	15		40
Pentachlorophenol	106		100		40-140	6		40
Hexachlorobenzene	85		78		40-140	9		40
Hexachloroethane	78		62		40-140	23		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 Batch: WG1263497-2 WG1263497-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	62		52		21-120
Phenol-d6	52		46		10-120
Nitrobenzene-d5	89		76		23-120
2-Fluorobiphenyl	82		75		15-120
2,4,6-Tribromophenol	89		91		10-120
4-Terphenyl-d14	94		88		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1263499-2 WG1263499-3								
Bis(2-chloroethyl)ether	66		74		40-140	11		30
3,3'-Dichlorobenzidine	66		68		40-140	3		30
2,4-Dinitrotoluene	74		76		48-143	3		30
2,6-Dinitrotoluene	87		89		40-140	2		30
4-Chlorophenyl phenyl ether	75		76		40-140	1		30
4-Bromophenyl phenyl ether	87		81		40-140	7		30
Bis(2-chloroisopropyl)ether	81		84		40-140	4		30
Bis(2-chloroethoxy)methane	77		78		40-140	1		30
Hexachlorocyclopentadiene	77		87		40-140	12		30
Isophorone	78		82		40-140	5		30
Nitrobenzene	81		80		40-140	1		30
NDPA/DPA	78		79		40-140	1		30
n-Nitrosodi-n-propylamine	86		86		29-132	0		30
Bis(2-ethylhexyl)phthalate	83		81		40-140	2		30
Butyl benzyl phthalate	96		96		40-140	0		30
Di-n-butylphthalate	84		85		40-140	1		30
Di-n-octylphthalate	94		91		40-140	3		30
Diethyl phthalate	84		83		40-140	1		30
Dimethyl phthalate	91		92		40-140	1		30
Biphenyl	70		74		40-140	6		30
4-Chloroaniline	68		98		40-140	36	Q	30
2-Nitroaniline	86		88		52-143	2		30
3-Nitroaniline	64		66		25-145	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1263499-2 WG1263499-3								
4-Nitroaniline	74		74		51-143	0		30
Dibenzofuran	69		70		40-140	1		30
1,2,4,5-Tetrachlorobenzene	74		77		2-134	4		30
Acetophenone	67		68		39-129	1		30
2,4,6-Trichlorophenol	89		92		30-130	3		30
p-Chloro-m-cresol	89		89		23-97	0		30
2-Chlorophenol	72		78		27-123	8		30
2,4-Dichlorophenol	81		81		30-130	0		30
2,4-Dimethylphenol	66		76		30-130	14		30
2-Nitrophenol	82		82		30-130	0		30
4-Nitrophenol	74		74		10-80	0		30
2,4-Dinitrophenol	94		90		20-130	4		30
4,6-Dinitro-o-cresol	96		98		20-164	2		30
Phenol	56		60		12-110	7		30
3-Methylphenol/4-Methylphenol	73		74		30-130	1		30
2,4,5-Trichlorophenol	91		91		30-130	0		30
Carbazole	83		83		55-144	0		30
Atrazine	128		128		40-140	0		30
Benzaldehyde	66		70		40-140	6		30
Caprolactam	54		57		10-130	5		30
2,3,4,6-Tetrachlorophenol	84		81		40-140	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1263499-2 WG1263499-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	61		66		21-120
Phenol-d6	56		57		10-120
Nitrobenzene-d5	84		82		23-120
2-Fluorobiphenyl	79		85		15-120
2,4,6-Tribromophenol	77		85		10-120
4-Terphenyl-d14	92		90		41-149

PCBS

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-01
Client ID: MW-1
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 14:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/08/19 15:40
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 15:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.013	1	A
Aroclor 1221	ND		ug/l	0.083	0.018	1	A
Aroclor 1232	ND		ug/l	0.083	0.038	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.038	1	A
Aroclor 1254	0.117		ug/l	0.083	0.014	1	B
Aroclor 1260	0.182		ug/l	0.083	0.029	1	B
Aroclor 1262	ND		ug/l	0.083	0.028	1	A
Aroclor 1268	ND		ug/l	0.083	0.026	1	A
PCBs, Total	0.299		ug/l	0.083	0.013	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	37		30-150	B
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	28	Q	30-150	A

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-02
Client ID: MW-2
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:25
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/08/19 15:52
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 15:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.013	1	A
Aroclor 1221	ND		ug/l	0.083	0.018	1	A
Aroclor 1232	ND		ug/l	0.083	0.038	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.038	1	A
Aroclor 1254	ND		ug/l	0.083	0.014	1	A
Aroclor 1260	ND		ug/l	0.083	0.029	1	A
Aroclor 1262	ND		ug/l	0.083	0.028	1	A
Aroclor 1268	ND		ug/l	0.083	0.026	1	A
PCBs, Total	ND		ug/l	0.083	0.013	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	41		30-150	B
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	33		30-150	A

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-03
Client ID: MW-4
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:05
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/08/19 16:05
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 15:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.013	1	A
Aroclor 1221	ND		ug/l	0.083	0.018	1	A
Aroclor 1232	ND		ug/l	0.083	0.038	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.038	1	A
Aroclor 1254	ND		ug/l	0.083	0.014	1	A
Aroclor 1260	ND		ug/l	0.083	0.029	1	A
Aroclor 1262	ND		ug/l	0.083	0.028	1	A
Aroclor 1268	ND		ug/l	0.083	0.026	1	A
PCBs, Total	ND		ug/l	0.083	0.013	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	41		30-150	B
Decachlorobiphenyl	31		30-150	B
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	24	Q	30-150	A

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-04
 Client ID: MW-5
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:55
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 08/08/19 16:17
 Analyst: KB

Extraction Method: EPA 3510C
 Extraction Date: 07/23/19 15:50
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/25/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.013	1	A
Aroclor 1221	ND		ug/l	0.083	0.018	1	A
Aroclor 1232	ND		ug/l	0.083	0.038	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.038	1	A
Aroclor 1254	ND		ug/l	0.083	0.014	1	A
Aroclor 1260	ND		ug/l	0.083	0.029	1	A
Aroclor 1262	ND		ug/l	0.083	0.028	1	A
Aroclor 1268	ND		ug/l	0.083	0.026	1	A
PCBs, Total	ND		ug/l	0.083	0.013	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	39		30-150	B
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	31		30-150	A

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-05
Client ID: MW-6
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 12:05
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/08/19 16:30
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 15:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.013	1	A
Aroclor 1221	ND		ug/l	0.083	0.018	1	A
Aroclor 1232	ND		ug/l	0.083	0.038	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.038	1	A
Aroclor 1254	ND		ug/l	0.083	0.014	1	A
Aroclor 1260	ND		ug/l	0.083	0.029	1	A
Aroclor 1262	ND		ug/l	0.083	0.028	1	A
Aroclor 1268	ND		ug/l	0.083	0.026	1	A
PCBs, Total	ND		ug/l	0.083	0.013	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	53		30-150	B
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	43		30-150	A

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-06
Client ID: MW-8
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/08/19 16:42
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 15:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.013	1	A
Aroclor 1221	ND		ug/l	0.083	0.018	1	A
Aroclor 1232	ND		ug/l	0.083	0.038	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.038	1	A
Aroclor 1254	ND		ug/l	0.083	0.014	1	A
Aroclor 1260	ND		ug/l	0.083	0.029	1	A
Aroclor 1262	ND		ug/l	0.083	0.028	1	A
Aroclor 1268	ND		ug/l	0.083	0.026	1	A
PCBs, Total	ND		ug/l	0.083	0.013	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	B
Decachlorobiphenyl	30		30-150	B
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	27	Q	30-150	A

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-07
 Client ID: MW-9
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 08/08/19 16:54
 Analyst: KB

Extraction Method: EPA 3510C
 Extraction Date: 07/23/19 15:50
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/25/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.013	1	A
Aroclor 1221	ND		ug/l	0.083	0.018	1	A
Aroclor 1232	ND		ug/l	0.083	0.038	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.038	1	A
Aroclor 1254	ND		ug/l	0.083	0.014	1	A
Aroclor 1260	ND		ug/l	0.083	0.029	1	A
Aroclor 1262	ND		ug/l	0.083	0.028	1	A
Aroclor 1268	ND		ug/l	0.083	0.026	1	A
PCBs, Total	ND		ug/l	0.083	0.013	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	28	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	23	Q	30-150	A

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-08
Client ID: CHA 001
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:00
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/08/19 17:07
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 15:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.013	1	A
Aroclor 1221	ND		ug/l	0.083	0.018	1	A
Aroclor 1232	ND		ug/l	0.083	0.038	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.038	1	A
Aroclor 1254	ND		ug/l	0.083	0.014	1	A
Aroclor 1260	ND		ug/l	0.083	0.029	1	A
Aroclor 1262	ND		ug/l	0.083	0.028	1	A
Aroclor 1268	ND		ug/l	0.083	0.026	1	A
PCBs, Total	ND		ug/l	0.083	0.013	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	38		30-150	B
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	31		30-150	A

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-09
Client ID: WASTE CHAR 2019
Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:45
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/08/19 17:19
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 15:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.013	1	A
Aroclor 1221	ND		ug/l	0.083	0.018	1	A
Aroclor 1232	ND		ug/l	0.083	0.038	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.038	1	A
Aroclor 1254	0.072	J	ug/l	0.083	0.014	1	A
Aroclor 1260	0.092		ug/l	0.083	0.029	1	B
Aroclor 1262	ND		ug/l	0.083	0.028	1	A
Aroclor 1268	ND		ug/l	0.083	0.026	1	A
PCBs, Total	0.163	J	ug/l	0.083	0.013	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	34		30-150	B
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	26	Q	30-150	A

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 08/08/19 15:02
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 07/23/19 15:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-09 Batch: WG1263432-1						
Aroclor 1016	ND		ug/l	0.083	0.013	A
Aroclor 1221	ND		ug/l	0.083	0.018	A
Aroclor 1232	ND		ug/l	0.083	0.038	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.038	A
Aroclor 1254	ND		ug/l	0.083	0.014	A
Aroclor 1260	ND		ug/l	0.083	0.029	A
Aroclor 1262	ND		ug/l	0.083	0.028	A
Aroclor 1268	ND		ug/l	0.083	0.026	A
PCBs, Total	ND		ug/l	0.083	0.013	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	48		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-09 Batch: WG1263432-2 WG1263432-3									
Aroclor 1016	68		68		40-140	0		50	A
Aroclor 1260	56		55		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		59		30-150	B
Decachlorobiphenyl	61		60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		61		30-150	A
Decachlorobiphenyl	50		48		30-150	A

METALS

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-01
 Client ID: MW-1
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 14:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 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	0.03433		mg/l	0.00050	0.00016	1	07/23/19 18:25	07/24/19 21:18	EPA 3005A	1,6020B	AM
Barium, Total	1.149		mg/l	0.00050	0.00017	1	07/23/19 18:25	07/24/19 21:18	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00324		mg/l	0.00020	0.00005	1	07/23/19 18:25	07/24/19 21:18	EPA 3005A	1,6020B	AM
Chromium, Total	0.05085		mg/l	0.00100	0.00017	1	07/23/19 18:25	07/24/19 21:18	EPA 3005A	1,6020B	AM
Lead, Total	2.050		mg/l	0.00100	0.00034	1	07/23/19 18:25	07/24/19 21:18	EPA 3005A	1,6020B	AM
Mercury, Total	0.00082		mg/l	0.00020	0.00009	1	07/25/19 11:47	07/25/19 20:47	EPA 7470A	1,7470A	EA
Selenium, Total	0.00548		mg/l	0.00500	0.00173	1	07/23/19 18:25	07/24/19 21:18	EPA 3005A	1,6020B	AM
Silver, Total	0.00587		mg/l	0.00040	0.00016	1	07/23/19 18:25	07/24/19 21:18	EPA 3005A	1,6020B	AM



Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-02
 Client ID: MW-2
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:25
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 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	0.00594		mg/l	0.00050	0.00016	1	07/23/19 18:25	07/24/19 21:22	EPA 3005A	1,6020B	AM
Barium, Total	0.1656		mg/l	0.00050	0.00017	1	07/23/19 18:25	07/24/19 21:22	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00101		mg/l	0.00020	0.00005	1	07/23/19 18:25	07/24/19 21:22	EPA 3005A	1,6020B	AM
Chromium, Total	0.00747		mg/l	0.00100	0.00017	1	07/23/19 18:25	07/24/19 21:22	EPA 3005A	1,6020B	AM
Lead, Total	0.1192		mg/l	0.00100	0.00034	1	07/23/19 18:25	07/24/19 21:22	EPA 3005A	1,6020B	AM
Mercury, Total	0.00021		mg/l	0.00020	0.00009	1	07/25/19 11:47	07/25/19 20:48	EPA 7470A	1,7470A	EA
Selenium, Total	0.00312	J	mg/l	0.00500	0.00173	1	07/23/19 18:25	07/24/19 21:22	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/23/19 18:25	07/24/19 21:22	EPA 3005A	1,6020B	AM



Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-03
 Client ID: MW-4
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:05
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 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	0.02197		mg/l	0.00050	0.00016	1	07/23/19 18:25	07/24/19 21:26	EPA 3005A	1,6020B	AM
Barium, Total	0.2559		mg/l	0.00050	0.00017	1	07/23/19 18:25	07/24/19 21:26	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00048		mg/l	0.00020	0.00005	1	07/23/19 18:25	07/24/19 21:26	EPA 3005A	1,6020B	AM
Chromium, Total	0.02020		mg/l	0.00100	0.00017	1	07/23/19 18:25	07/24/19 21:26	EPA 3005A	1,6020B	AM
Lead, Total	0.9262		mg/l	0.00100	0.00034	1	07/23/19 18:25	07/24/19 21:26	EPA 3005A	1,6020B	AM
Mercury, Total	0.00078		mg/l	0.00020	0.00009	1	07/25/19 11:47	07/25/19 20:50	EPA 7470A	1,7470A	EA
Selenium, Total	0.0174		mg/l	0.00500	0.00173	1	07/23/19 18:25	07/24/19 21:26	EPA 3005A	1,6020B	AM
Silver, Total	0.00027	J	mg/l	0.00040	0.00016	1	07/23/19 18:25	07/24/19 21:26	EPA 3005A	1,6020B	AM



Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-04
 Client ID: MW-5
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:55
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 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	0.00082		mg/l	0.00050	0.00016	1	07/23/19 18:25	07/24/19 21:31	EPA 3005A	1,6020B	AM
Barium, Total	0.03866		mg/l	0.00050	0.00017	1	07/23/19 18:25	07/24/19 21:31	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/23/19 18:25	07/24/19 21:31	EPA 3005A	1,6020B	AM
Chromium, Total	0.00067	J	mg/l	0.00100	0.00017	1	07/23/19 18:25	07/24/19 21:31	EPA 3005A	1,6020B	AM
Lead, Total	0.00425		mg/l	0.00100	0.00034	1	07/23/19 18:25	07/24/19 21:31	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/25/19 11:47	07/25/19 20:51	EPA 7470A	1,7470A	EA
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/23/19 18:25	07/24/19 21:31	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/23/19 18:25	07/24/19 21:31	EPA 3005A	1,6020B	AM



Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-05
 Client ID: MW-6
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 12:05
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 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	0.00157		mg/l	0.00050	0.00016	1	07/23/19 18:25	07/24/19 21:35	EPA 3005A	1,6020B	AM
Barium, Total	0.04908		mg/l	0.00050	0.00017	1	07/23/19 18:25	07/24/19 21:35	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00025		mg/l	0.00020	0.00005	1	07/23/19 18:25	07/24/19 21:35	EPA 3005A	1,6020B	AM
Chromium, Total	0.00133		mg/l	0.00100	0.00017	1	07/23/19 18:25	07/24/19 21:35	EPA 3005A	1,6020B	AM
Lead, Total	0.01593		mg/l	0.00100	0.00034	1	07/23/19 18:25	07/24/19 21:35	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/25/19 11:47	07/25/19 20:52	EPA 7470A	1,7470A	EA
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/23/19 18:25	07/24/19 21:35	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/23/19 18:25	07/24/19 21:35	EPA 3005A	1,6020B	AM



Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-06
 Client ID: MW-8
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 15:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 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	0.01116		mg/l	0.00050	0.00016	1	07/23/19 18:25	07/24/19 21:39	EPA 3005A	1,6020B	AM
Barium, Total	0.1370		mg/l	0.00050	0.00017	1	07/23/19 18:25	07/24/19 21:39	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00019	J	mg/l	0.00020	0.00005	1	07/23/19 18:25	07/24/19 21:39	EPA 3005A	1,6020B	AM
Chromium, Total	0.01777		mg/l	0.00100	0.00017	1	07/23/19 18:25	07/24/19 21:39	EPA 3005A	1,6020B	AM
Lead, Total	0.03007		mg/l	0.00100	0.00034	1	07/23/19 18:25	07/24/19 21:39	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/25/19 11:47	07/25/19 20:54	EPA 7470A	1,7470A	EA
Selenium, Total	0.00610		mg/l	0.00500	0.00173	1	07/23/19 18:25	07/24/19 21:39	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/23/19 18:25	07/24/19 21:39	EPA 3005A	1,6020B	AM



Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-07
 Client ID: MW-9
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 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	0.00756		mg/l	0.00050	0.00016	1	07/23/19 18:25	07/24/19 21:44	EPA 3005A	1,6020B	AM
Barium, Total	0.1162		mg/l	0.00050	0.00017	1	07/23/19 18:25	07/24/19 21:44	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00204		mg/l	0.00020	0.00005	1	07/23/19 18:25	07/24/19 21:44	EPA 3005A	1,6020B	AM
Chromium, Total	0.00495		mg/l	0.00100	0.00017	1	07/23/19 18:25	07/24/19 21:44	EPA 3005A	1,6020B	AM
Lead, Total	0.00715		mg/l	0.00100	0.00034	1	07/23/19 18:25	07/24/19 21:44	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/25/19 11:47	07/25/19 20:55	EPA 7470A	1,7470A	EA
Selenium, Total	0.00653		mg/l	0.00500	0.00173	1	07/23/19 18:25	07/24/19 21:44	EPA 3005A	1,6020B	AM
Silver, Total	0.00052		mg/l	0.00040	0.00016	1	07/23/19 18:25	07/24/19 21:44	EPA 3005A	1,6020B	AM



Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-08
 Client ID: CHA 001
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 13:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 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	0.00431		mg/l	0.00050	0.00016	1	07/23/19 18:25	07/24/19 21:48	EPA 3005A	1,6020B	AM
Barium, Total	0.1271		mg/l	0.00050	0.00017	1	07/23/19 18:25	07/24/19 21:48	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00050		mg/l	0.00020	0.00005	1	07/23/19 18:25	07/24/19 21:48	EPA 3005A	1,6020B	AM
Chromium, Total	0.00525		mg/l	0.00100	0.00017	1	07/23/19 18:25	07/24/19 21:48	EPA 3005A	1,6020B	AM
Lead, Total	0.07577		mg/l	0.00100	0.00034	1	07/23/19 18:25	07/24/19 21:48	EPA 3005A	1,6020B	AM
Mercury, Total	0.00013	J	mg/l	0.00020	0.00009	1	07/25/19 11:47	07/25/19 20:59	EPA 7470A	1,7470A	EA
Selenium, Total	0.00197	J	mg/l	0.00500	0.00173	1	07/23/19 18:25	07/24/19 21:48	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/23/19 18:25	07/24/19 21:48	EPA 3005A	1,6020B	AM



Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1931995-09
 Client ID: WASTE CHAR 2019
 Sample Location: POUGHKEEPSIE, NY

Date Collected: 07/18/19 16:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 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	0.04544		mg/l	0.00050	0.00016	1	07/23/19 18:25	07/24/19 21:52	EPA 3005A	1,6020B	AM
Barium, Total	0.8608		mg/l	0.00050	0.00017	1	07/23/19 18:25	07/24/19 21:52	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00435		mg/l	0.00020	0.00005	1	07/23/19 18:25	07/24/19 21:52	EPA 3005A	1,6020B	AM
Chromium, Total	0.07278		mg/l	0.00100	0.00017	1	07/23/19 18:25	07/24/19 21:52	EPA 3005A	1,6020B	AM
Lead, Total	1.070		mg/l	0.00100	0.00034	1	07/23/19 18:25	07/24/19 21:52	EPA 3005A	1,6020B	AM
Mercury, Total	0.00158		mg/l	0.00020	0.00009	1	07/25/19 11:47	07/25/19 21:01	EPA 7470A	1,7470A	EA
Selenium, Total	0.0136		mg/l	0.00500	0.00173	1	07/23/19 18:25	07/24/19 21:52	EPA 3005A	1,6020B	AM
Silver, Total	0.00358		mg/l	0.00040	0.00016	1	07/23/19 18:25	07/24/19 21:52	EPA 3005A	1,6020B	AM



Project Name: DELAVAL
 Project Number: 30114.1005.44200

Lab Number: L1931995
 Report Date: 08/08/19

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): 01-09 Batch: WG1263466-1									
Arsenic, Total	ND	mg/l	0.00050	0.00016	1	07/23/19 18:25	07/24/19 20:21	1,6020B	AM
Barium, Total	ND	mg/l	0.00050	0.00017	1	07/23/19 18:25	07/24/19 20:21	1,6020B	AM
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	07/23/19 18:25	07/24/19 20:21	1,6020B	AM
Chromium, Total	ND	mg/l	0.00100	0.00017	1	07/23/19 18:25	07/24/19 20:21	1,6020B	AM
Lead, Total	ND	mg/l	0.00100	0.00034	1	07/23/19 18:25	07/24/19 20:21	1,6020B	AM
Selenium, Total	ND	mg/l	0.00500	0.00173	1	07/23/19 18:25	07/24/19 20:21	1,6020B	AM
Silver, Total	ND	mg/l	0.00040	0.00016	1	07/23/19 18:25	07/24/19 20:21	1,6020B	AM

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): 01-09 Batch: WG1264436-1									
Mercury, Total	ND	mg/l	0.00020	0.00009	1	07/25/19 11:47	07/25/19 20:33	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1263466-2								
Arsenic, Total	104		-		80-120	-		
Barium, Total	108		-		80-120	-		
Cadmium, Total	113		-		80-120	-		
Chromium, Total	106		-		80-120	-		
Lead, Total	111		-		80-120	-		
Selenium, Total	103		-		80-120	-		
Silver, Total	104		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-09 Batch: WG1264436-2								
Mercury, Total	97		-		80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

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): 01-09 QC Batch ID: WG1263466-3 QC Sample: L1932069-12 Client ID: MS Sample												
Arsenic, Total	ND	0.12	0.1255	104		-	-		75-125	-		20
Barium, Total	0.00126	2	2.153	108		-	-		75-125	-		20
Cadmium, Total	ND	0.051	0.05657	111		-	-		75-125	-		20
Chromium, Total	0.00049J	0.2	0.2090	104		-	-		75-125	-		20
Lead, Total	ND	0.51	0.5737	112		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.130	108		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05224	104		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1264436-3 WG1264436-4 QC Sample: L1931271-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00468	94		0.00470	94		75-125	0		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1263466-4 QC Sample: L1932069-12 Client ID: DUP Sample						
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	0.00126	0.00118	mg/l	7		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.00049J	0.00050J	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1931995-01A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-01B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-01C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-01D	Plastic 250ml HNO3 preserved	A	<2	<2	4.2	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1931995-01E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-01F	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-01G	Amber 1000ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7),NYTCL-8082-1200ML(7)
L1931995-01H	Amber 1000ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7),NYTCL-8082-1200ML(7)
L1931995-02A	Vial HCl preserved	C	NA		5.0	Y	Absent		NYTCL-8260-R2(14)
L1931995-02B	Vial HCl preserved	C	NA		5.0	Y	Absent		NYTCL-8260-R2(14)
L1931995-02C	Vial HCl preserved	C	NA		5.0	Y	Absent		NYTCL-8260-R2(14)
L1931995-02D	Plastic 250ml HNO3 preserved	C	<2	<2	5.0	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1931995-02E	Amber 250ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-02F	Amber 250ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-02G	Amber 1000ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8082-1200ML(7)

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1931995-02H	Amber 1000ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-03A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-03B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-03C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-03D	Plastic 250ml HNO3 preserved	A	<2	<2	4.2	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1931995-03E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-03F	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-03G	Amber 1000ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-03H	Amber 1000ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-04A	Vial HCl preserved	B	NA		5.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-04B	Vial HCl preserved	B	NA		5.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-04C	Vial HCl preserved	B	NA		5.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-04D	Plastic 250ml HNO3 preserved	B	<2	<2	5.2	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1931995-04E	Amber 250ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-04F	Amber 250ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-04G	Amber 1000ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-04H	Amber 1000ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-05A	Vial HCl preserved	C	NA		5.0	Y	Absent		NYTCL-8260-R2(14)
L1931995-05B	Vial HCl preserved	C	NA		5.0	Y	Absent		NYTCL-8260-R2(14)
L1931995-05C	Vial HCl preserved	C	NA		5.0	Y	Absent		NYTCL-8260-R2(14)
L1931995-05D	Plastic 250ml HNO3 preserved	C	<2	<2	5.0	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1931995-05E	Amber 250ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-05F	Amber 250ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-05G	Amber 1000ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-05H	Amber 1000ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-06A	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1931995-06B	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-06C	Vial HCl preserved	A	NA		4.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-06D	Plastic 250ml HNO3 preserved	A	<2	<2	4.2	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1931995-06E	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-06F	Amber 250ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-06G	Amber 1000ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-06H	Amber 1000ml unpreserved	A	7	7	4.2	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-07A	Vial HCl preserved	B	NA		5.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-07B	Vial HCl preserved	B	NA		5.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-07C	Vial HCl preserved	B	NA		5.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-07D	Plastic 250ml HNO3 preserved	B	<2	<2	5.2	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1931995-07E	Amber 250ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-07F	Amber 250ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-07G	Amber 1000ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-07H	Amber 1000ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-08A	Vial HCl preserved	C	NA		5.0	Y	Absent		NYTCL-8260-R2(14)
L1931995-08B	Vial HCl preserved	C	NA		5.0	Y	Absent		NYTCL-8260-R2(14)
L1931995-08C	Vial HCl preserved	C	NA		5.0	Y	Absent		NYTCL-8260-R2(14)
L1931995-08D	Plastic 250ml HNO3 preserved	C	<2	<2	5.0	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1931995-08E	Amber 250ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-08F	Amber 250ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-08G	Amber 1000ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-08H	Amber 1000ml unpreserved	C	7	7	5.0	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-09A	Vial HCl preserved	B	NA		5.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-09B	Vial HCl preserved	B	NA		5.2	Y	Absent		NYTCL-8260-R2(14)
L1931995-09C	Vial HCl preserved	B	NA		5.2	Y	Absent		NYTCL-8260-R2(14)

Project Name: DELAVAL
Project Number: 30114.1005.44200

Serial_No:08081918:45
Lab Number: L1931995
Report Date: 08/08/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1931995-09D	Plastic 250ml HNO3 preserved	B	<2	<2	5.2	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28)
L1931995-09E	Amber 250ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-09F	Amber 250ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1931995-09G	Amber 1000ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-09H	Amber 1000ml unpreserved	B	7	7	5.2	Y	Absent		NYTCL-8082-1200ML(7)
L1931995-10A	Vial HCl preserved	A	NA		4.2	Y	Absent		ARCHIVE()
L1931995-10B	Vial HCl preserved	A	NA		4.2	Y	Absent		ARCHIVE()

Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

- 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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: DELAVAL
Project Number: 30114.1005.44200

Lab Number: L1931995
Report Date: 08/08/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

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: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: 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 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, 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 of 1		Date Rec'd in Lab 7/19/19	ALPHA Job # 61931995						
			Project Information Project Name: Delaval Project Location: Poughkeepsie, NY Project # 30114, 1005, 44200 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #					
Client Information Client: CHA Address: 3005 State St Ste 400 Syracuse NY 13202 Phone: 315 257 7154 Fax: Email: Smiller@chacompanies.com		Project Manager: Candy Fox ALPHAQuote #: 7108 Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:						
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.					ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		Total Bottles			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs 8240C	NY TCL SVOCs 8270A	TCL PCBs 8082A		Tot. RCRA g mat.	Sample Specific Comments	
31995-01	MW-1	7/18/19	1440	Water	SM/EN	x	x	x		x		8
-02	MW-2	7/18/2019	1325			x	x	x		x		8
-03	MW-4	7/18/2019	1505			x	x	x		x		8
-04	MW-5	7/18/2019	1455			x	x	x		x		8
-05	MW-6	7/18/2019	1205			x	x	x		x		8
-06	MW-8	7/18/2019	1540			x	x	x		x		8
-07	MW-9	7/18/2019	1430			x	x	x		x		8
-08	CHA 001	7/18/2019	1300			x	x	x		x		8
-09	Waste Char 2019	7/18/2019	1645			x	x	x	x		8	
	Trip Blank			Water	sm/en	x					2	
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 V A A P		Preservative B A A C		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. (See reverse side.)		
Relinquished By:		Date/Time		Received By:		Date/Time						
[Signature]		7-19-19/1145		[Signature]		7-19-19 11:45						
[Signature]		7-19-19/1150		[Signature]		7-19-19 12:25						
[Signature]		7-19-19, 17:10		[Signature]		7/19/19 17:10						

CHIA

