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MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE ACTIVITIES (SEPTEMBER 2023) CLAREMONT POLYCHEMICAL OPERABLE UNIT 5 GROUND WATER TREATMENT SYSTEM, OLD BETHPAGE, NY

**MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE
ACTIVITIES (SEPTEMBER 2023)
CLAREMONT POLYCHEMICAL OPERABLE UNIT 5 GROUND
WATER TREATMENT SYSTEM, OLD BETHPAGE, NY**

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Prepared by **Pawel Mecinski – GES**
Checked by **Michael Grifasi - Ramboll**
Approved by **Andrew Leitzinger - Ramboll**

Ramboll
333 West Washington Street
Syracuse, NY 13202
USA

T 315-956-6100
F 315-463-7554
<https://ramboll.com>

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LIST OF ACRONYMS AND ABBREVIATIONS

AS	Air Stripper
A/V	Air and Vacuum
ASF	Air Stripper feed
BNA	Base Neutral & Acid Extractables
CPC	Claremont Polychemical
CSE	Confined Space Entry
DOSR	Daily Operations Summary Report
EE	Electrical Engineer
GES	Groundwater & Environmental Services, Inc.
GPM	Gallons Per Minute
GWTS	Groundwater extraction, treatment, and reinjection system
HDR	Henningson, Durham & Richardson Architecture and Engineering, P.C.
HMI	Human Machine Interface
HVAC	Heating, Ventilation, and Air Conditioning
MTBA	Tert-Butyl-Methyl ether
MW	Monitoring Well
NYSDEC	New York State Department of Environmental Conservation
O&M	Operation and Maintenance
OU4	Operable Unit 4
OU5	Operable Unit 5
PD	Plant Discharge
PDB	Passive Diffusion Bag
PFAS	Per- and polyfluoroalkyl substances
PFOS	Perfluorooctanesulfonic acid
PFOA	Perfluorooctanoic acid
PID	Photoionization Detector
PFF	Pressure Filter Feed
PLC	Programmable Logic Controller
ppm	parts per million
PW	Process Water
Ramboll	Ramboll Americas Engineering Solutions, Inc.
RW	Recovery Well, Process Well
SPEDES	State Pollutant Discharge Elimination System
SSHP	Site Safety and Health Plan
SU	Standard pH Units
SVOCs	Semi-Volatile Organic Compounds
TBA	Tert-butyl alcohol
TDS	Total Dissolved Solids
TKN	Total Kjeldahl Nitrogen
TOC	Total Organic Carbon
TSS	Total Suspended Solids
US Water	US Water Services Corporation
VOCs	Volatile Organic Compounds,

1. OPERATION AND MAINTENANCE ACTIVITIES

On behalf of Ramboll Americas Engineering Solutions, Inc. (Ramboll), Groundwater & Environmental Services, Inc. (GES) continued the daily operation and maintenance (O&M) of the Claremont Polychemical (CPC) Superfund Site Groundwater Treatment System (GWTS) Operable Unit 5 (OU5) during the month of September 2023. In addition, former Operable Unit (OU4) was inspected once per month to ensure security and building code compliance. For this report every time plant is mentioned it refers to OU5. OU4 will be referred to as such whenever discussed. This report covers the O&M activities for the system during the period defined as beginning at approximately 0800 hours, September 1, 2023, through approximately 0800 hours, October 2, 2023. O&M conducted during this reporting period was guided by the site O&M Manual.

The GWTS – treatment plant, grounds, and well systems - were maintained for the 31 days in this reporting period during which the treatment system experienced 0 minutes of downtime.

Readings of the key plant process parameters are normally recorded each workday. These readings and the Human Machine Interface (HMI) flow trend lines are used to monitor the system's performance and condition. Selected readings are recorded in the daily database which is an electronic file maintained in the monthly operating documents folder. If the plant is not occupied, the system is monitored remotely.

The treatment process control and alarm systems are functional. The recovery well pumps, process pumps, and air stripper blower are operated in the automatic mode and are normally remotely controlled and monitored. RW-3 and RW-5 recovery wells were operational during the month of September. RW-4 experienced random electrical shut downs and excessive vibration between August 11 through 14, 2023 and has since been offline for troubleshooting.

1.1 Daily Operations Summary Reports

The GWTS's daily operations and maintenance activities, project tasks, and observations during this period are briefly described in the Daily Operations Summary Report (DOSR). The DOSR is based in part on the treatment system's daily operating worksheets and logs which include:

- Daily Operating Log – flow readings and calculations (Form-01)
- Daily Site and Safety Inspection – plant condition checklist (Form-02)
- Daily Plant Activity Notes – plant manager's daily summary (Form-03)
- Sign-In Sheet – GES/Ramboll employee on-site hours (Form-15)
- Daily Process Data Sheet – point process readings (Form-30)
- Logbook CPC 5-8– plant operator's daily logbook
- Daily Database – daily process readings (September 23 Database.xlsx)
- NYSDEC Log-in Sheet – Entry/Exit Log with COVID-19 Acknowledgement

1.2 Summary of Maintenance Activities

The operation and maintenance of the treatment system, facility, and associated equipment is performed in accordance with the site O&M Manual. These tasks and inspections incorporate the equipment manufacturers' recommendations, operations experience, and good engineering and

maintenance practices. A detailed accounting of the September activities is further provided in the plantoperator's daily logbook.

Maintenance and project activities undertaken during the September period included:

- Routine and general maintenance tasks were conducted at the plant, on the grounds, and in the well fields.
- Single Air Stripper Feed (ASF) pumps were placed into hand mode and frequently switched to cycle their activity.
- The monthly process equipment tests were conducted.
- The Operable Unit 4 (OU4) comprehensive inspections were completed.
- The monthly Process/Recovery Well (RW) system inspection was completed.
- Recovery wells RW-4 and RW-5 were restarted following pump replacement.
- Basin 33 was inspected.
- The ASF pumps were lubricated, and the seals tightened.
- The OU5 comprehensive inspections were completed.
- The Pressure Filter Feed (PFF) pumps were lubricated, and the seals tightened.
- The fire alarm system components were inspected.
- The monthly electrical device survey was completed.
- The SUNY wellfield was inspected.

1.3 Maintenance Logs

The following operating logbooks are currently in use and maintained at OU5:

- CL-18 OU-4 Log (at OU4)
- CL-43 General Field Support Log (truck)
- CL-47 Misc. Projects Field Notebook (Pawel Mecinski)
- CPC 5-4 Project Support Logbook (site)
- CPC 5-8 Site Supervisor's Daily Logbook (Pawel Mecinski).

Except for log CPC 5-7, the completed logbooks associated with the project have been scanned, all are in storage at OU5, and are available for review.

2. TECHNICAL SUPPORT ACTIVITIES

2.1 GES/Ramboll Personnel

- GES maintained the system throughout the period.

2.2 NYSDEC Personnel, Subcontractors, and Other Visitors

- On September 01, 2023 – A representative from LEB Electric was on site to inspect RW-4 electrical controls.
- On September 13, 2023 – Payson Long (NYSDEC) and Ramboll personnel conducted OU-4 system inspection and equipment inventory.
- On September 18, 2023 – BK Fire Suppression & Security conducted fire alarm system inspection at OU-4 plant.

2.3 Deliveries

- On September 25, 2023 – National Waste Services, LLC. emptied the trash dumpster.
- On September 29, 2023 – FedEx delivered sampling coolers and supplies for the monthly system sampling event.

3. HEALTH AND SAFETY

Work at the Claremont GWTS OU5 was conducted in accordance with the approved and Ramboll adopted Site Safety and Health Plan (SSHP). Safety related activities during this period included:

- The water remained off at OU4. Both potable and non-potable lines were drained. (No sanitary water).
- Daily site safety inspections were completed as part of the routine O&M activities.

4. PLANNED ACTIVITIES AND SCHEDULES

The evaluation of the plant operating system and equipment is ongoing by GES/Ramboll. A list in the form of corrective actions or maintenance tasks has been generated as a monthly system status report. These reports are updated as needed and reviewed at least monthly. Both are electronically filed. The corrective action list is included at the end of this report as **Table 1** – Claremont Corrective Action Summary.

Upcoming tasks include:

- OU4 remains without water to the fire sprinkler system due to no heat in the building.
- OU4 potable water line was shut off due to pipe ruptures from frozen pipes.
- Air valve at MW-6 cluster in Bethpage State Park reinsertion.
- Investigate plant electric driven back-up heater failures.
Close and exercise all globe valves at the non-operational recovery wells.

5. MONITORING WELL WATER ELEVATIONS

The monitoring well system's groundwater elevation data table was updated after the August 2023 quarterly GW elevation recording task. This database is available for review. The next set of synoptic water level measurements will be scheduled for October 2023 and will be conducted by Ramboll.

6. TREATMENT SYSTEM FLOWS

During the September period, the plant continued to operate in the auto control mode. The volume of treated water discharged by the treatment system to the selected recharge basin was calculated from the plant influent and effluent flow meter readings. These readings are taken at the HMI and recorded in the daily database.

RW-5 pressure switch was replaced on January 5, 2023, and the well was successfully restarted on automatic run mode. RW-5 experienced electrical short across the motor windings on January 26, 2023, and was confirmed inoperable. The motor short circuiting was confirmed on March 13, 2023 during pump extraction and inspection activities. RW-5 motor and wiring was replaced on May 1, 2023. RW-5 has been operating since the replacement activities. RW-3 continues to function normally. RW-4 was offline from August 17, 2022 through May 2, 2023 following full replacement of pump, pump motor and down well wiring. RW-4 had been operating normally since the replacement activities. The old RW-4 pump was inspected, and it was determined that the shaft has ceased up and broke off between the motor and pump connection. RW-4 experienced abnormal vibrations and tripping on August 11, 2023, and was shut down on August 14, 2023 for further electrical and mechanical troubleshooting.

During the month of September, the plant discharge was directed to Recharge Basin 33.

The total volume of treated water discharged from ~0800 hours September 1 to ~0800 hours October 2 was approximately 20,636,000 gallons. The data in **Table 2** is a summary of plant discharge flows.

A graphic representation of the system's daily plant discharge output is provided in **Figure 1** and the daily plant totalizer readings for September 2023 are provided in **Table 3**, both following the text of this report.

Under current conditions, the PLC and the control system are functioning as designed. Flows from the individual recovery wells are remotely read, transmitted, and totalized.

The flow summary for the individual components of the system can be found in **Table 4** at the end of this report.

7. CHEMICAL CONSUMPTION

The hydrochloric acid feed system is currently off-line, and the system is void of acid. There are four drums of virgin acid on site. No acid was used for water treatment purposes in September of 2023.

The sodium hydroxide storage system is currently not in use and the system is empty of caustic. There is no bulk sodium hydroxide on site and no caustic was used in September of 2023.

The sodium hypochlorite storage system is currently not in use and the system is empty of bleach. No bulk sodium hypochlorite is stored on site. No sodium hypochlorite was used in September of 2023.

8. WASTE DISPOSALS

Routine accumulation of waste materials continued from plant day to day operations. Waste removal is being handled by National Waste Services, LLC. Waste container was last emptied on September 25, 2023.

9. MONTHLY DISCHARGE MONITORING REPORT

The GWTS is operated under an equivalency permit from the NYSDEC. **Table 5** presents the Claremont OU5 O&M Sampling and Measurement requirements and their frequency. The analytical results for the plant discharge sampling conducted on September 7, 2023 indicate that the analyzed parameters were compliant with permit limits (**Table 6**). Monthly system sampling analytical results are provided in **Attachment 1**.

The OU5 GWTS plant's water discharge permit is in the process of being renewed by the NYSDEC.

10. PENDING ISSUES AND CONSIDERATIONS

Mechanical repairs have been made to the plant HVAC system at OU4. Upon testing, the gas supply appeared to be shut off. Ramboll is currently planning demolition of the OU4 building.

The sprinkler system at OU4 remains drained of water. The potable and non-potable water lines at OU4 have been drained.

The discrepancies/inaccuracies in the plant flow meter readings at OU5 may be due to the inappropriate configuration of the local piping. Future calibration or adjustment of pulse reading may be required.

Repairs have been made at RW-4 and RW-5. Both pumps have returned to operation. RW-4 experienced excessive vibrations on August 11, 2023 and was shut down on August 14, 2023 to preserve mechanical components until further testing and troubleshooting is conducted.

The OU4 plant is offline and its disposition including that of the injection well system, and vapor carbon beds is pending.

The status of key aspects of OU4 are as follows:

- The plant heat is currently off, and the system is out of service.
- The fire alarm panels are off-line.
- The fire sprinkler system is currently off-line. The water has been drained from the system. An alarm system for the sprinkler has been installed with central monitoring.
- The facility is secure, and its physical monitoring continues.
- The facility and grounds are not maintained except for the facility entrance and plant egress points.
- NYSDEC plans on decommissioning and demolishing OU4. A team from Ramboll is in the process of developing bid documents for this work.

11. PLANT DOCUMENTS

Procedures and standard forms are written, reviewed, and revised as needed. As-built drawings are generated and updated as necessary.

12. MONITORING RESULTS

The CPC GWTS is monitored through the analysis of off-site laboratory analytical data and on-site field data.

12.1 Off-site Analytical Data Results

Monthly Plant Discharge (PD) samples are taken for organic analysis in compliance with the NYSDEC discharge permit. Quarterly groundwater samples are taken for organic analysis, and quarterly process water (PW) samples are taken for organic, inorganic, and generic analysis. At the direction of the NYSDEC in an August 17, 2022 email, analysis of Per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane were added to monthly sampling for both influent and effluent for the foreseeable future. The September 2023 PFAS and 1,4-dioxane influent and effluent results can be found in **Table 7** following the text of this report. Monthly and quarterly system sampling analytical results are provided in **Attachment 1**.

The September sampling activities included:

- The September PD data was processed and submitted.
- Monthly and quarterly system sampling was completed on September 7, 2023.

12.2 Field Data

12.2.1 Plant Discharge pH and Temperature

The treatment plant effluent is monitored for pH and temperature on a weekly basis to obtain a monthly average in compliance with the NYSDEC discharge permit requirements. These measurements are taken from the plant effluent at a controlled point with a calibrated portable meter. The plant discharge readings for September 2023 can be found in **Table 8** following the text of this report.

The September 2023 average pH measurement was 7.25 standard units (su). The NYSDEC discharge permit requires the plant discharge to have an average monthly pH between 6.5 and 8.5 su. The results for this month meet this requirement. Data showing the plant discharge's monthly average pH trend over several months is provided in **Table 9** following the text of this report.

12.2.2 Air Stripper (AS) Tower Air Monitoring

Using a calibrated photoionization detector (PID), the vapor discharge from the air stripper tower was monitored weekly for volatile organic compounds (VOCs). The measurements were taken from the tower's effluent air stream through Port B when the treatment system is online. The September 2023 readings from the AS tower are provided in **Table 10**.

Other routine data collected in September included:

- The electric and water meter readings at OU5 were recorded weekly.
- The plant vaults and selected areas were monitored for VOCs weekly.
- The plant sound levels were recorded bi-weekly.

- The monthly electric and gas meter readings for OU4 were recorded.
- The recharge basins were inspected weekly.
- The differential pressure readings across the AS Tower were recorded bi-weekly.

13. PROCESS ANALYSIS AND SYSTEM STATUS

The treatment system is currently operated 24/7 in the automatic mode. It is remotely monitored as necessary.

13.1 Extraction (RW) Processes

- The monthly system inspection was completed.
- The vault space heating units were deactivated on March 23, 2023.
- The recovery well pump system is remotely controlled and monitored, it operates in the auto mode.
- The pump at RW-3 is online and fully functional.
- The pump at RW-4 experienced multiple random shut downs and was quickly restarted without any issues. The pump experience excessive vibrations and electrical shut downs beginning on August 11, 2023 and was temporarily shut down on August 14, 2023 to preserve the pump until further testing.
- The pump at RW-5 is online and fully functional following motor replacement on May 1, 2023.
- Pump flow readouts are transmitted to the plant and the totalizers for pumps RW-3, and RW-4 are fully functional. The local flow meter for RW-5 occasionally stops transmitting.
- Air/Vacuum (A/V) valve at station 33+96 encountered a leak in May that required the vault to be pumped out and have its air/vacuum valve removed. Currently a stopper has been fitted to the pit that allows water to flow through the system.
- The Air/Vacuum (A/V) valve at station 16+57 and 17+10 remain isolated from the transmission line.
- RW-1 and RW-2 are offline and periodically run for preventative maintenance purposes. Their flow meters are not transmitting through the PLC. When repairs were made at RW-1 in November 2021, stones were removed from the flow meterhousing. There was a thick coating of iron salt deposits on the housing and impeller. Both RW-1 and RW-2 are isolated from the process pipeline throughout the operating period. On a monthly basis, the isolation valves are actuated open and pumps are run for 5 minutes to rotate the motors. The pumps were tested operational as of September 1, 2023.

13.2 AS Process

- The three OU5 ASF pumps in the AS Process are fully functional.
- Motors and seals were lubricated on a bi-weekly schedule. Seals were tightened and the drains were cleared as necessary.
- The AS tower main drain valve's manual actuator is not functional (fail open).
- The tower media appears clean as the pressure differential between the top and bottom ports remains relatively constant. The lower section of media has been visually inspected.
- The discharge valves for ASF P1 and P2 appear to be frozen in the open position.

13.3 PD Process

- The plant discharge flow is currently directed to Recharge Basin 33.

- The valve influent to Recharge Basin 1 remained closed during the September reporting period.
- Pump 1 has been taken out of service due to excessive noise and vibration. A full evaluation is required. Pumps 2 and 3 are fully functional.
- The motors and seals were lubricated as necessary.
- The discharge valve for PFF P3 has failed open.

13.4 Other

- The plant's first bank of lights is wired to the emergency-light recharging system. The circuit is kept on 24/7. The lamps appear burnt out. The second bank of lights provides sufficient lighting for general tasks. Additional work lights were installed around the plant area to further illuminate work areas.
- The potential for leaks in the water supply line running through the plant will continue to be monitored.
- The fire alarm and central monitoring systems are fully functional.

14. GROUNDS

14.1 Plant Perimeter

- General outdoor clean-up tasks are on-going.
- The fencing is clear and secure.

14.2 Well Field

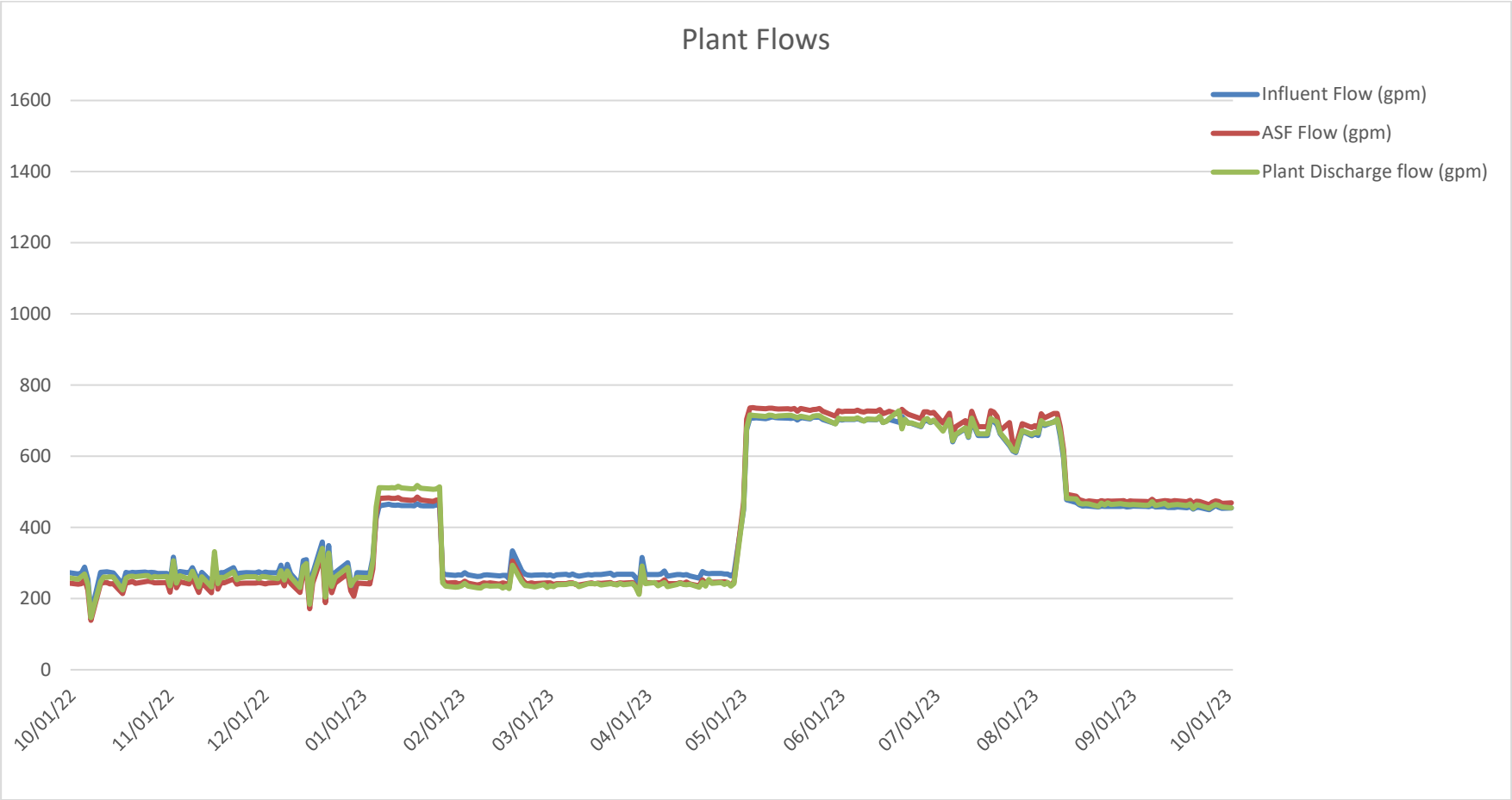
- Well field, and recharge basin inspections continue. Quarterly groundskeeping activities are performed in order to clear vegetation and poison ivy from around all well fields in anticipation of quarterly groundwater sampling event. In addition, the entrance to recharge basin #33 is maintained for ease of access.

14.3 Other

- The CPC GWTF OU4 is secure.
- The property at and around the OU4 site continues to be inspected. While the grounds are not maintained, the treatment plant's entrance and egress points are kept clear and functional.

FIGURE

Figure 1
Plant Discharge Daily Flow



TABLES

Table 1
Claremont Corrective Actions Summary

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
The RW Discharge Manifold integrity is suspect	The condition of the various devices on the RW discharge manifold are suspect. The Air Vent valve in the vault on the N-side of the 6th fairway is leaking from the influent nipple. The shut-off valve was closed and the device isolated. The air-vent valve in the vault to the east of the 6th green is leaking. The shut-off valve was closed and the device isolated. The manifold employs isolation, venting, and drain valves as well as other devices. Along the path of the manifold are vaults which house some of these devices. These vaults need to be accessed, pumped out, and the devices tested. Two isolation valves were closed between RW-1 and RW-3. These valves seemed to hold.	Plant staff and outside contractors	Possible shutdown	May require a Confined Space Entry (CSE)
AS Tower main drain valve is not controlled	The valve does not respond to manipulation of its actuator. <i>This valve should be replaced.</i> <i>No further action is planned at this time.</i>	Operator	Plant will need to be shut down to change out the valve	None

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
OU4 fire alarm system is not functioning Central monitoring of the fire alarm system or fire suppression system does not exist OU4 electrical system has been unstable	The Nassau County Fire Code indicates that the sprinkler system must have central monitoring for flow and valve tampering. The fire alarm system needs to be replaced and centrally monitored. Several contractors have been at the site to propose options for the system. BK Fire installed central monitoring on the sprinkler system. Both are offline as the sprinkler system will remain drained until the HVAC system is repaired. Certain OU4 lights currently create a large amount of noise in the fan box within the control room. The southern lights flicker and then die including the emergency system. OU4 is currently being planned for demolition.	Plant operator, Electrical Engineer (EE) and outside vender	None at this time	Fire code violations. High altitude tasks, safety code violations
Several leaks were observed in the plant overhead water supply line	Adjacent to the north door a clam-shell type clamp was applied. The second leak observed above the AS Blower is not readily accessible. It is not problematic. Repair work may require evaluation and outside resources. Currently the situation is controlled.	Outside plumbing contractor	None	Sanitary water may be shut off during repairs

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
The float controls for the PFF pump system have intermittently shorted out causing the system to not properly control the pumping operation	The wiring of the pump control system is connected below grade. The junction box in the wet well is thought to be filled with water creating a problem with the float switches to control relay wiring. The box cannot be opened without damage to it and the conduit. This appears to have been a longstanding problem, as when switches have been replaced in the past, they were spliced outside the box. The float switches have been replaced and spliced above the sump but there remains a problem with the L2 circuit. The output from the W-2 relay was moved to the output for the W-1 relay. This has stopped the short cycling. <i>The control wiring should be changed and moved above grade. Currently the second splices to the floats are above ground outside the vault.</i>	Plant operator and GES resources	Plant shut down is required	Possible Confined Space Entry work
PFF P1 has failed	The pump when activated immediately makes a lot of noise, and the pump drop pipe shakes. Smoke/fumes emanated at the Motor-shaft connection. The motor appears to be good. The pump was removed from service, February 24, 2020. <i>It is recommended that the motor be disconnected, lifted, and the mechanical connection checked.</i>	Outside contractors	None anticipated	To be determined

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
As the ASF pumps cycle off/on, the check valves have started to slam closed. When reactivating, the motor starter contact is rather violent. Both actions tend to rattle the piping and fixtures	There is no available literature regarding the check valves, so the exact description of their functioning parts is to be determined. A softer start/stop control may fix this issue. <i>This will need further investigation. Soft-start equipment and variable frequency controls were discussed.</i>	Plant operator and EE support	If replacement or repairs are necessary, a plant shutdown will be required as the units can- not be isolated	To be determined
The flowmeters for system flow, ASF flow and plant discharge are out of sync with the flow meters on the recovery wells	While the ASF flow meter is the most out of line, it is plumbed correctly. The influent system flow meter and the plant discharge flow meters are piped incorrectly. The same style of relay is used to count pulses, but the meters have not been calibrated. The system needs further investigation to determine if any changes are warranted.	EE support	To be determined	none
EF-4 is not operatable	The fan is controlled through the mezzanine thermostat, but it does not appear to be operating. The fan requires electrical testing. The system was checked, it appears that the fan is not functioning. The fan should be replaced.	EE support	Only in an emergency	Only in an emergency
Wiring nests in main control console	The wiring in the main control console needs to be cleaned up and labeled, to facilitate problem troubleshooting and process improvements.	EE support	A shut down may be necessary	Electrical work

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
Pressure Filter Feed pump controls	With P1 out of service, the sequencing of pumps allows for the PFF vault to reach HHL conditions in certain circumstances. Reprogram the sequencing to eliminate the position of P1.	EE support	To be determined	To be determined
RW-5 has failed	RW-5 pump was replaced on October 10, 2022, however due to PLC signal loss, it cannot be operated in automatic mode. GES conducted troubleshooting and parts replacement without success. System controls were examined by a PLC certified technician mid-December and determined pressure switch failure. Used device has been installed while a new one has been ordered. The pump ran on auto mode from January 5, 2023 to January 26, 2023 until an electrical short at the motor disabled the safe operation of the pump. New pressure switch was installed on March 23, 2023. New pump motor installed on May 1, 2023.	Plant Operator and Ramboll.	Less water is treated	To be determined
RW-4 has failed	RW-4 started to experience possible motor thermal overload shutdowns on multiple occasions during August monitoring period. The pump motor fully shut down on August 17, 2022 and all troubleshooting/restarting attempts were unsuccessful. New pump and pump motor installed on May 2, 2023. Pump experienced excessive vibration and shut downs on August 11, 2023. Suspected impeller bearing failure or electrical short circuiting. Pump temporarily shut down on August 14, 2023 for further electrical testing.	Plant Operator and Ramboll	Less water is treated	To be determined
Air vacuum valve removal	On May 22, 2022 RW-4 was shut down due to a leak detected in the field near an air/vacuum valve pit. On May 24 2022 through May 25, 2022 water was pumped out of the vault and on May 31, 2022 a	GES Mechanical Support	Less water is treated	Confined space entry required to do work in vault

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	confined space entry was made to attempt to tighten the valve in an effort to stop the leak. This tightening was unsuccessful, and the valve was removed entirely and replaced with a blank flange until further notice.			
Plant Electric Heater UH-3 failure and HVAC system performance	During sub-20 deg.F weather, the emergency electric heater failed. The HVAC system struggled to produce heat and the plant temperatures dipped to around mid-30's during that time.	Outside contractor	Water lines freezing	Equipment damage

Other Plant Conditions of Note (no action required at this time)

- The methane detection system is offline. **To function, it will need a technical inspection and maintenance.** However, methane does not currently appear to be a hazard.
- It has been determined that intrinsically safe components are no longer required in the plant.
- There has been no need for acid washing of the AS Tower media, the hydrochloric acid feed and storage system have not been operated. The tanks have not been filled and the level monitoring system has not been operated.

As previously noted, there are pieces of equipment that are out of service and require repairs. Currently there are no plans for addressing these conditions as the operation of this equipment is not necessary or needed for the operation of the treatment system.

Equipment	Fault	Status
Plant electric heater UH-1	Needs transformer	Heater is not needed
Plant electric heater UH-2	Needs relay timer and wiring repairs	Heater is not needed
Recovery well pump pressure switch assembly	Units are unwieldy and subject to vibration, corrosion, and leaks	Each unit requires assessment and disposition
NaOH sump pump	Pump is not operating	No water or chemicals stored in vault. Portable submersible pump in sump should suffice
Plant lights are wired to the emergency light charging system	Un-segregated light cannot be shut off. Several of the lamps may have burnt out	The bank of lights appear to have failed/burnt out. The second bank of lights are sufficient
Plant exhaust fans are part of methane system	Fans cannot be manually operated	Once the methane monitoring system is online, the fans can be operated

Equipment	Fault	Status
Plant discharge drain	Leak in Victaulic fitting	Drain line on plant discharge intermittently leaks. Parts are in-house. Not pressing
ASF pump isolation valve	Valve P1 has failed open	Not needed at this time
PFF pump isolation valve	Valve P3 has failed open	Not needed at this time
RW-1 flow meter	The meter is not operating	Pump is offline. Rocks were pulled from the housing and iron sediment was encrusting the flow meter impeller and housing
RW-2 flow meter	The meter is not transmitting	Pump is offline
Air stripper flow meter	Non-functional and removed	
AH-1 condenser	Air conditioner is non-functional	Two window AC units in place
Plant outdoor lights	9 of 12 lights not functioning	Not a security issue

Table 2
Plant Discharge Average Flow & Volume

Period	Average Flow (gpm)	Average Daily volume (gal)	Total Period Flow (gal)	Min off	Min on
Q4 2016	517	745,000	68,540,000	7,309	125,171
Q1 2017	520	748,244	67,342,000	655	128,945
Q2 2017	576	829,130	76,280,000	6,165	126,315
Q3 2017	634	913,576	84,049,000	1,110	131,370
Q4 2017	256	368,762	33,926,110	69,165	63,315
Q1 2018	53	75,989	6,839,000	118,180	11,420
Q2 2018	179	258,284	23,762,103	102,929	29,551
Q3 2018	504	725,280	66,725,717	57,416	75,064
Q4 2018	726	1,045,065	96,145,984	23,734	108,746
Q1 2019	527	758,467	68,262,000	735	128,865
Q2 2019	662	953,877	87,756,724	405	132,075
Q3 2019	685	985,802	90,693,740	108	132,372
Q4 2019	655	943,871	82,116,780	5,039	129,326
Q1 2020	480	682,527	62,110,000	1,824	129,326
Q2 2020	698	996,998	88,732,846	3,838	127,185
Q3 2020	669	955,928	87,945,333	1,099	131,401
Q4 2020	695	1,001,365	92,125,539	52	132,497
Q1 2021	708	1,019,733	91,776,000	0	129,603
Q2 2021	709	1,021,317	92,939,850	0	131,040
Q3 2021	615	884,934	81,413,897	0	132,475
Q4 2021	677	928,370	85,410,047	6,317	126,185
Q1 2022	633	1,291,661	80,082,987	5,280	124,320
Q2 2022	434	624,605	53,716,000	12,200	123,840
Q3 2022	365	514,501	46,283,000	3,004	124,994

Period	Average Flow (gpm)	Average Daily volume (gal)	Total Period Flow (gal)	Min off	Min on
Q4 2022	257	369,307	34,007,000	491	132,154
Q1 2023	305	434,900	37,841,000	323	123,817
Q2 2023	548	799,720	74,309,000	204	135,126
Q3 2023	560	806,666	72,430,000	102	130,998

Acronyms: gal - gallons gpm – gallons per minute

Table 3
Plant Daily Totalizer Readings

September 2023 Flows						
Plant Influent			Plant Discharge		RW Discharge	
Date	Volume	Avg. Flow	Volume	Avg. Flow	Volume	Avg. Flow
09/01/23	-	474	-	464	-	458
09/05/23	2,730,000	474	2,675,000	464	2,648,000	460
09/06/23	681,000	473	665,000	462	661,000	459
09/07/23	687,000	472	674,000	463	667,000	458
09/08/23	683,000	479	673,000	472	659,000	462
09/11/23	2,038,000	472	1,992,000	461	1,977,000	458
09/12/23	684,000	475	673,000	467	660,000	458
09/13/23	683,000	474	663,000	460	657,000	456
09/14/23	681,000	473	667,000	463	657,000	456
09/15/23	684,000	475	668,000	464	657,000	456
09/18/23	2,051,000	475	2,006,000	464	1,975,000	457
09/19/23	680,000	472	664,000	461	655,000	455
09/20/23	686,000	476	671,000	466	660,000	458
09/21/23	721,000	467	701,000	454	697,000	451
09/22/23	633,000	474	619,000	464	610,000	457
09/25/23	2,043,000	473	1,996,000	462	1,971,000	456
09/26/23	682,000	464	667,000	454	661,000	450
09/27/23	657,000	471	642,000	460	635,000	455
09/28/23	690,000	474	676,000	465	671,000	461
09/29/23	681,000	473	666,000	463	658,000	457
10/02/23	2,019,000	467	1,978,000	458	1,959,000	453
September Total Plant Influent (Gal)			21,094,000			
September Total Plant Effluent (Gal)			20,636,000			
September Total RW Discharge (Gal)			20,395,000			

Acronyms: gal - gallons

gpm – gallons per minute

Table 4
Pump System Flow Readings

September	On-Time Minutes (actual)	Avg. Flow (gpm)	Avg. Flow (gpd)	Total Flow (gal)
RW-1*	5	149	0	745
RW-2*	5	209	0	1,045
RW-3	44,640	212	305,871	9,482,000
RW-4	0	0	0	0
RW-5	44,640	247	356,290	11,045,000
RW Totals	44,640	457	657,903	20,395,000
Plant Influent	44,640	473	680,452	21,094,000
Plant Effluent	44,640	462	665,677	20,636,000

Acronyms: gal - gallons gpm – gallons per minute gpd – gallons per day

The treatment process was online 31 days during this period with 0 minutes of downtime. RW-4 pump experienced random shut downs and excessive vibration at the well head and was temporarily placed offline until further electrical and mechanical inspection. Flows are taken from the HMI meter readings.

* Offline aside from monthly process equipment test to check their functionality. There are no average gallons per day.

Table 5
Claremont OU5 O&M Sampling/Measurement Program and Frequency

Measurement / Analyte	Sampling Location			
	System Influent	Plant Discharge	Recovery Wells	Monitoring Wells
Flow	Daily	Daily	Daily	NA
pH	Quarterly	Weekly	Quarterly	Quarterly
VOCs (+Tert-Butyl-Methyl ether (MTBA) & Tert-butyl alcohol (TBA))	Quarterly	Monthly	Quarterly	Quarterly
Semi-Volatile Organic Compound (SVOC) Base Neutral & Acid Extractables (BNA)	Quarterly	Monthly	NS	NS
Per- and polyfluoroalkyl substances (PFAS)	Monthly	Monthly	NS	Quarterly ⁽¹⁾
1,4-Dioxane	Monthly	Monthly	NS	Quarterly ⁽¹⁾
Total Kjeldahl Nitrogen→ (TKN)	NS	Quarterly	NS	NS
Total Suspended Solids (TSS)	Quarterly	NS	Quarterly	NS
Total Organic Carbon (TOC)	Quarterly	NS	NS	NS
Total Dissolved Solids (TDS)	NS	Quarterly	NS	NS
Cyanide	NS	Quarterly	NS	NS
Hexavalent Chromium	NS	Quarterly	NS	NS
Mercury	NS	Quarterly	NS	NS
Metals	Quarterly	Quarterly	Quarterly	NS
Anions	NS	Quarterly	NS	NS

Notes: NA – Not applicable; NS – Not sampled. ⁽¹⁾ – CPC wells only

Table 6
Plant Discharge Analytical Results
September 7, 2023

Parameters	Discharge Limitations (SPDES)	Units	Results
<i>pH (range)</i>	6.5 – 8.5	<i>su</i>	7.25
1,1,1-Trichloroethane	5	ug/l	U
1,1-Dichloroethane	5	ug/l	U
1,1-Dichloroethylene	5	ug/l	U
1,2- Dichloroethane	0.6	ug/l	U
Benzene	0.7	ug/l	U
Chlorobenzene	5	ug/l	U
Chloroform	7	ug/l	U
CIS 1,2-Dichloroethylene	5	ug/l	U
Ethylbenzene	5	ug/l	U
Methylene Chloride	5	ug/l	U
Tert-butyl alcohol (TBA)	Not indicated	ug/l	U
Tert-Butyl-Methyl ether (MTBA)	5	ug/l	U
Tetrachloroethylene (PCE)	5	ug/l	U
Toluene	5	ug/l	U
Trans 1,2-Dichloroethylene	5	ug/l	U
Trichloroethylene (TCE)	5	ug/l	U
Bis(2-ethylhexyl) phthalate	5	ug/l	U
Di-n-butyl phthalate	50	ug/l	U
Nitro Benzene	0.4	ug/l	U
Antimony, Total recoverable	3	ug/l	U
Arsenic, Total recoverable	50	ug/l	U
Barium, Total recoverable	2000	ug/l	89
Chromium, Hexavalent	100	ug/l	U
Lead, Total recoverable	50	ug/l	U
Iron, Total recoverable	600	ug/l	U
Manganese, Total recoverable	600	ug/l	180
Mercury	Not indicated	ug/l	U
Zinc	Not indicated	mg/l	17
Nitrogen, Total (as N)	10	mg/l	3.4
Selenium, Total recoverable	40	ug/l	U
Solids, Total Dissolved	1000	mg/l	350
Chloride Ion	NL	mg/l	130
Cyanide	Not indicated	ug/l	U
Fluoride Ion	NL	mg/l	U

Parameters	Discharge Limitations (SPDES)	Units	Results
Sulfate Ion	NL	mg/l	22
J – Estimated value U – Analyzed but not detected NL – Monitor only NS– Not sampled SPDES – State Pollutant Discharge Elimination System ug/l – micrograms per liter ng/l – nanograms per liter mg/l – milligrams per liter Discharge limitations updates as per the water discharge permit. Note: Parameters shaded in gray are analyzed quarterly with results generally being provided March, June, October, and December.			

Table 7
Emerging Contaminant Influent & Effluent Analytical Results
September 7, 2023

Parameters	Guidance Values	Units	Influent Results	Effluent Results
Perfluorooctanoic acid (PFOA)	10 ¹	ng/l	41 / 41	39 / 41
Perfluorooctanesulfonic acid (PFOS)	10 ¹	ng/l	18 / 17	17 / 17
1,4-Dioxane	1 ²	ug/l	20 / 19	19 / 19
J – Estimated value U – Analyzed but not detected ug/l – micrograms per liter ng/l – nanograms per liter x / x – indicates primary/duplicate results				
¹ New York State Department of Environmental Conservation, Sampling, Analysis and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), November 2022. ² New York State, Department of Health, Subpart 5, Table 3, May 2018.				

Table 8
Effluent pH and Temperature Readings

Date	pH (su)	Temp (° C)
09/06/2023	7.06	20.9
09/13/2023	7.34	18.9
09/18/2023	7.64	16.1
09/25/2023	6.97	17.0
September Average	7.25 su	18.2 °C

Table 9
Plant Discharge Monthly Average pH

Month	pH(su)
Aug '19	6.56
Sept '19	7.45
Oct '19	6.86
Nov '19	6.88
Dec '19	6.84
Jan '20	6.63
Feb '20	6.75
Mar '20	6.74
Apr '20	6.65
May '20	6.8
June '20	6.8
July '20	6.9
Aug '20	6.8
Sept '20	6.8
Oct. '20	6.95
Nov '20	6.8
Dec '20	6.64
Jan '21	6.8
Feb '21	6.75
Mar '21	6.76
Apr '21	7.28
May '21	7.53
June '21	7.44
July '21	7.41
Aug '21	7.42
Sept '21	7.13
Oct '21	7.10
Nov '21	7.09
Dec '21	7.01
Jan '22	6.90
Feb '22	6.90
Mar '22	6.80
Apr '22	6.78
May '22	6.79
June '22	6.79
July '22	7.01
Aug '22	6.99
Sept '22	7.19
Oct '22	7.62
Nov '22	7.68
Dec '22	7.52

Month	pH(su)
Jan '23	7.24
Feb '23	7.36
Mar '23	7.56
Apr '23	7.28
May '23	7.56
June'23	7.36
July` 23	7.39
Aug` 23	7.24
Sept` 23	7.25

Plant Discharge Monthly Average pH Readings

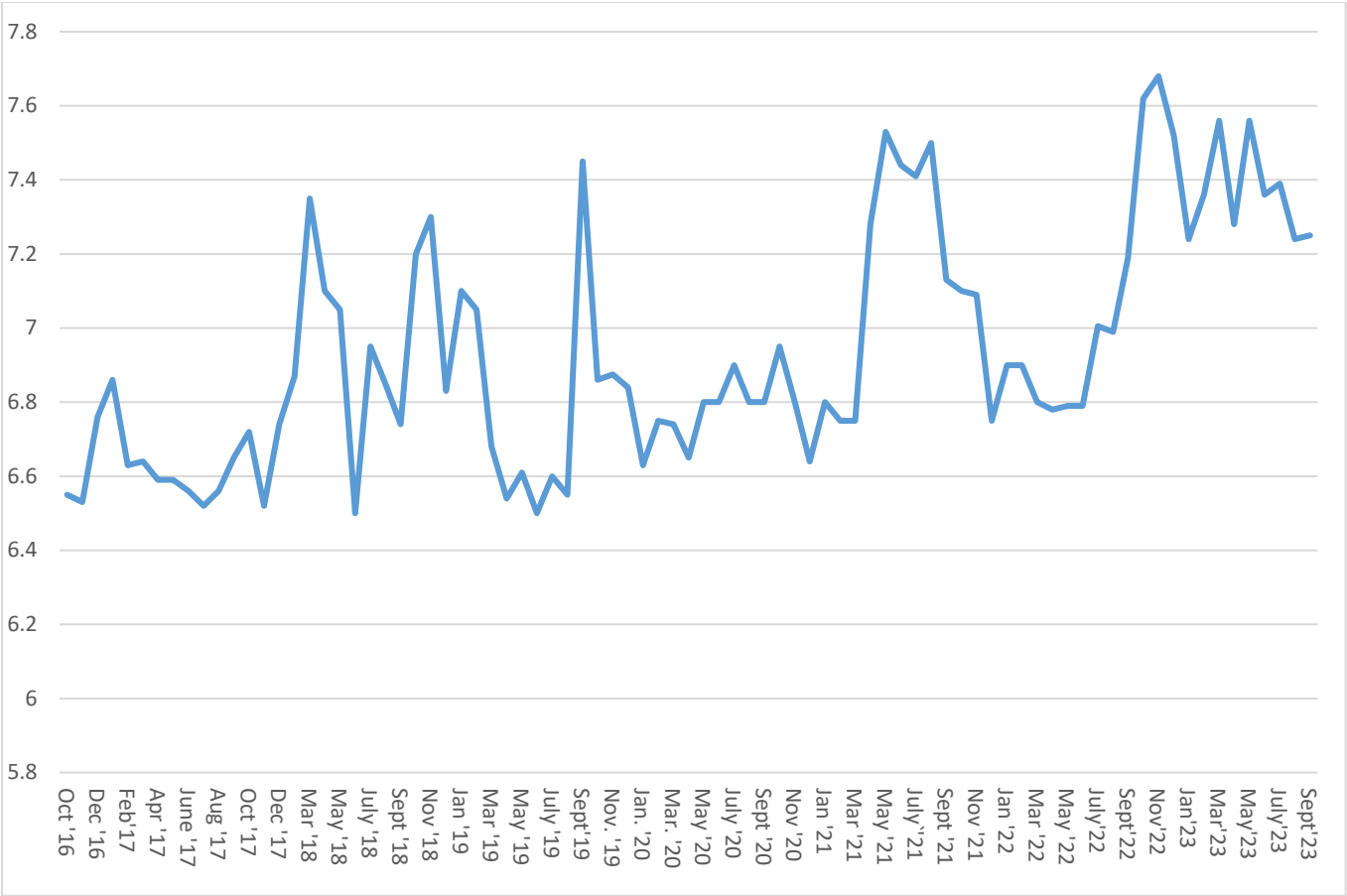


Table 10
AS Tower Air Monitoring Readings

Recorded Date	Port B (ppm)
09/06/2023	0.0
09/15/2023	0.0
09/18/2023	0.0
09/25/2023	0.0

ATTACHMENT 1
MONTHLY O&M SAMPLING ANALYTICAL RESULTS –SEPTEMBER 7, 2023

October 3, 2023

Payson Long
NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13221

Project Location: Old Bethpage, New York
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 23I0861

Enclosed are results of analyses for samples as received by the laboratory on September 8, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13221
ATTN: Payson Long

REPORT DATE: 10/3/2023

PURCHASE ORDER NUMBER: 144165

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 2310861

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Old Bethpage, New York

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
ASF-CP-00-090723	2310861-01	Water		SM 21-23 5310B SM21-23 2540D SW-846 6010D SW-846 7470A SW-846 8260D SW-846 8270E	
ASF-CP-01-090723	2310861-02	Water		SM 21-23 5310B SW-846 6010D SW-846 7470A SW-846 8270E	
PD-CP-00-090723	2310861-03	Water		EPA 300.0 SM19-23 4500-N Org B,C-NH3 C SM21-23 2540C SW-846 6010D SW-846 7196A SW-846 7470A SW-846 8260D SW-846 8270E SW-846 9014	
PD-CP-01-090723	2310861-04	Water		EPA 300.0 SM19-23 4500-N Org B,C-NH3 C SM21-23 2540C SW-846 7196A SW-846 8260D SW-846 8270E SW-846 9014	
RW3-CP-00-090723	2310861-05	Water		SM21-23 2540D SW-846 6010D SW-846 7470A SW-846 8260D	
RW3-CP-01-090723	2310861-06	Water		SM21-23 2540D	
RW5-CP-00-090723	2310861-08	Water		SM21-23 2540D SW-846 6010D SW-846 7470A SW-846 8260D	
TB-090723	2310861-09	Water		SW-846 8260D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

EPA 300.0**Qualifications:****MS-12**

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**Chloride**

23I0861-03[PD-CP-00-090723], B353516-MS1, B353516-MSD1

Fluoride

23I0861-03[PD-CP-00-090723], B351517-MS1, B351517-MSD1

Sulfate

23I0861-03[PD-CP-00-090723], B353516-MS1, B353516-MSD1

SW-846 6010D**Qualifications:****MS-19**

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:**Sodium**

23I0861-01[ASF-CP-00-090723], 23I0861-03[PD-CP-00-090723], B353162-MS1, B353162-MS2, B353162-MSD1, B353162-MSD2

SW-846 7196A**Qualifications:****H-09**

Sample received by laboratory with insufficient time remaining to perform analysis within the recommended holding time.

Analyte & Samples(s) Qualified:**Hexavalent Chromium**

23I0861-03[PD-CP-00-090723], 23I0861-04[PD-CP-01-090723], B351467-MS1, B351467-MSD1

SW-846 8260D**Qualifications:****PR-08**

pH of sample (pH 5) is outside of method specified preservation criteria.

Analyte & Samples(s) Qualified:

23I0861-01[ASF-CP-00-090723]

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**Vinyl Chloride**

B351657-BS1, B351657-BSD1, S093297-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Bromochloromethane**

B351657-BS1, B351657-BSD1, S093297-CCV1

Chloromethane

B351657-BS1, B351657-BSD1, S093297-CCV1

Dichlorodifluoromethane (Freon 12)

B351657-BS1, B351657-BSD1, S093297-CCV1

SW-846 8270E**Qualifications:**

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**N-Nitrosodimethylamine**

23I0861-01[ASF-CP-00-090723], B351830-BLK1, B351830-BS1, B351830-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B351920-BSD1

Aniline

B351830-BS1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**Benzidine**

B351830-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene**

B351830-BS1, B351830-BSD1

1,3-Dichlorobenzene

B351830-BS1, B351830-BSD1

1,4-Dichlorobenzene

B351830-BS1, B351830-BSD1

2,4-Dinitrophenol

B351830-BS1, B351830-BSD1

2-Chlorophenol

B351830-BS1, B351830-BSD1

2-Methylphenol

B351830-BS1, B351830-BSD1

3/4-Methylphenol

B351830-BS1, B351830-BSD1

3-Nitroaniline

B351830-BS1, B351830-BSD1

4-Chloroaniline

B351830-BS1, B351830-BSD1

4-Nitroaniline

B351830-BS1, B351830-BSD1

4-Nitrophenol

B351830-BS1, B351830-BSD1

Benzidine

B351830-BLK1, B351830-BS1

Benzoic Acid

B351830-BS1, B351830-BSD1

N-Nitrosodimethylamine

B351830-BS1, B351830-BSD1

Phenol

B351830-BS1, B351830-BSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B351830-BLK1, B351830-BS1, B351830-BSD1, B351920-BLK1, B351920-BS1, B351920-BSD1, S093397-CCV1, S093429-CCV1

4,6-Dinitro-2-methylphenol

B351830-BLK1, B351830-BS1, B351830-BSD1, B351920-BLK1, B351920-BS1, B351920-BSD1, S093397-CCV1, S093429-CCV1

Benzidine

23I0861-01[ASF-CP-00-090723], 23I0861-03[PD-CP-00-090723], 23I0861-04[PD-CP-01-090723], B351830-BLK1, B351830-BS1, B351830-BSD1, B351920-BLK1, B351920-BS1, B351920-BSD1, S093397-CCV1, S093429-CCV1, S093565-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**1,2-Diphenylhydrazine/Azobenzene**

B351830-BLK1, B351830-BS1, B351830-BSD1, S093397-CCV1

Aniline

B351830-BLK1, B351830-BS1, B351830-BSD1, B351920-BLK1, B351920-BS1, B351920-BSD1, S093397-CCV1, S093429-CCV1

Benzidine

23I0861-01[ASF-CP-00-090723], 23I0861-03[PD-CP-00-090723], 23I0861-04[PD-CP-01-090723], B351830-BLK1, B351830-BS1, B351830-BSD1, B351920-BLK1, B351920-BS1, B351920-BSD1, S093397-CCV1, S093429-CCV1, S093565-CCV1

Di-n-octylphthalate

23I0861-01[ASF-CP-00-090723], 23I0861-03[PD-CP-00-090723], 23I0861-04[PD-CP-01-090723], B351830-BS1, B351920-BS1, S093565-CCV1

Hexachlorocyclopentadiene

23I0861-01[ASF-CP-00-090723], 23I0861-03[PD-CP-00-090723], 23I0861-04[PD-CP-01-090723], B351830-BS1, B351920-BS1, S093565-CCV1

N-Nitrosodimethylamine

B351830-BLK1, B351830-BS1, B351830-BSD1, S093397-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B351830-BS1, B351830-BSD1, B351920-BLK1, B351920-BS1, B351920-BSD1, S093397-CCV1, S093429-CCV1

2,4-Dinitrotoluene

B351920-BLK1, B351920-BS1, B351920-BSD1, S093429-CCV1

2,6-Dinitrotoluene

B351920-BLK1, B351920-BS1, B351920-BSD1, S093429-CCV1

2-Nitroaniline

23I0861-01[ASF-CP-00-090723], 23I0861-03[PD-CP-00-090723], 23I0861-04[PD-CP-01-090723], B351830-BS1, B351920-BS1, S093565-CCV1

3-Nitroaniline

B351920-BLK1, B351920-BS1, B351920-BSD1, S093429-CCV1

4,6-Dinitro-2-methylphenol

B351830-BS1, B351830-BSD1, B351920-BLK1, B351920-BS1, B351920-BSD1, S093397-CCV1, S093429-CCV1

4-Nitroaniline

B351920-BLK1, B351920-BS1, B351920-BSD1, S093429-CCV1

Benzoic Acid

23I0861-01[ASF-CP-00-090723], 23I0861-03[PD-CP-00-090723], 23I0861-04[PD-CP-01-090723], B351830-BS1, B351920-BS1, S093565-CCV1

Bis(2-chloroethyl)ether

23I0861-01[ASF-CP-00-090723], 23I0861-03[PD-CP-00-090723], 23I0861-04[PD-CP-01-090723], B351830-BS1, B351920-BS1, S093565-CCV1

Bis(2-chloroisopropyl)ether

23I0861-01[ASF-CP-00-090723], 23I0861-03[PD-CP-00-090723], 23I0861-04[PD-CP-01-090723], B351830-BS1, B351920-BS1, S093565-CCV1

Bis(2-Ethylhexyl)phthalate

23I0861-01[ASF-CP-00-090723], 23I0861-03[PD-CP-00-090723], 23I0861-04[PD-CP-01-090723], B351830-BS1, B351920-BS1, S093565-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B351830-BLK1

4,6-Dinitro-2-methylphenol

B351830-BLK1

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V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Aniline**

23I0861-01[ASF-CP-00-090723], 23I0861-03[PD-CP-00-090723], 23I0861-04[PD-CP-01-090723], B351830-BLK1, B351830-BS1, B351830-BSD1, B351920-BLK1, B351920-BS1, B351920-BSD1, S093397-CCV1, S093429-CCV1, S093565-CCV1, S093746-ICV1

Benzidine

B351830-BLK1, B351830-BS1, B351830-BSD1, B351920-BLK1, B351920-BS1, B351920-BSD1, S093397-CCV1, S093429-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B351830-BLK1, B351830-BS1, B351830-BSD1, B351920-BLK1, B351920-BS1, B351920-BSD1, S093397-CCV1, S093429-CCV1

2-Nitroaniline

B351830-BLK1, B351830-BS1, B351830-BSD1, B351920-BLK1, B351920-BS1, B351920-BSD1, S093397-CCV1, S093429-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: ASF-CP-00-090723

Sampled: 9/7/2023 11:00

Sample ID: 2310861-01

Sample Matrix: Water

Sample Flags: PR-08

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	3.1	50	2.0	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Chlorobenzene	0.25	1.0	0.12	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,4-Dichlorobenzene	0.14	1.0	0.13	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,1-Dichloroethylene	1.5	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
cis-1,2-Dichloroethylene	1.6	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Methyl tert-Butyl Ether (MTBE)	0.50	1.0	0.17	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Tetrachloroethylene	5.4	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0861

Date Received: 9/8/2023

Field Sample #: ASF-CP-00-090723

Sampled: 9/7/2023 11:00

Sample ID: 23I0861-01

Sample Matrix: Water

Sample Flags: PR-08

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,1,1-Trichloroethane	0.66	1.0	0.15	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Trichloroethylene	39	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/12/23	9/12/23 17:35	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	103		70-130				9/12/23 17:35			
Toluene-d8	98.6		70-130				9/12/23 17:35			
4-Bromofluorobenzene	80.0		70-130				9/12/23 17:35			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: ASF-CP-00-090723

Sampled: 9/7/2023 11:00

Sample ID: 2310861-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Acenaphthylene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Acetophenone	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Aniline	ND	4.8	µg/L	1	V-34	SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Anthracene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Benzidine	ND	19	µg/L	1	V-04, V-05	SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Benzo(a)anthracene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Benzo(a)pyrene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Benzo(b)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Benzo(g,h,i)perylene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Benzo(k)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Benzoic Acid	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Bis(2-chloroethoxy)methane	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Bis(2-chloroethyl)ether	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Bis(2-chloroisopropyl)ether	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Bis(2-Ethylhexyl)phthalate	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/13/23	9/18/23 14:21	AR2
4-Bromophenylphenylether	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Butylbenzylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Carbazole	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
4-Chloroaniline	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
4-Chloro-3-methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2-Chloronaphthalene	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2-Chlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
4-Chlorophenylphenylether	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Chrysene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Dibenz(a,h)anthracene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Dibenzofuran	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Di-n-butylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
1,2-Dichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
1,3-Dichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
1,4-Dichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
3,3-Dichlorobenzidine	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2,4-Dichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Diethylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2,4-Dimethylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Dimethylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
4,6-Dinitro-2-methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2,4-Dinitrophenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2,4-Dinitrotoluene	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2,6-Dinitrotoluene	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Di-n-octylphthalate	ND	9.6	µg/L	1	V-05	SW-846 8270E	9/13/23	9/18/23 14:21	AR2
1,2-Diphenylhydrazine/Azobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Fluorene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: ASF-CP-00-090723

Sampled: 9/7/2023 11:00

Sample ID: 2310861-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Hexachlorobutadiene	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Hexachlorocyclopentadiene	ND	9.6	µg/L	1	V-05	SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Hexachloroethane	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Indeno(1,2,3-cd)pyrene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Isophorone	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
1-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2-Methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
3/4-Methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Naphthalene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2-Nitroaniline	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/13/23	9/18/23 14:21	AR2
3-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
4-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Nitrobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2-Nitrophenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
4-Nitrophenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
N-Nitrosodimethylamine	ND	9.6	µg/L	1	L-04	SW-846 8270E	9/13/23	9/18/23 14:21	AR2
N-Nitrosodiphenylamine/Diphenylamine	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
N-Nitrosodi-n-propylamine	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Pentachloronitrobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Pentachlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Phenanthrene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Phenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Pyrene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Pyridine	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
1,2,4,5-Tetrachlorobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
1,2,4-Trichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2,4,5-Trichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
2,4,6-Trichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/13/23	9/18/23 14:21	AR2
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	49.5	15-110							
Phenol-d6	36.1	15-110							
Nitrobenzene-d5	77.3	30-130							
2-Fluorobiphenyl	71.3	30-130							
2,4,6-Tribromophenol	71.0	15-110							
p-Terphenyl-d14	75.8	30-130							

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: ASF-CP-00-090723

Sampled: 9/7/2023 11:00

Sample ID: 2310861-01

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	20	0.20	µg/L	1		SW-846 8270E	9/14/23	9/21/23 17:03	CJM
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
1,4-Dioxane-d8	30.9	15-110						9/21/23 17:03	

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0861

Date Received: 9/8/2023

Field Sample #: ASF-CP-00-090723

Sampled: 9/7/2023 11:00

Sample ID: 23I0861-01

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 22:35	ATP
Antimony	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Arsenic	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 22:35	ATP
Barium	0.091	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Beryllium	ND	0.0040	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Calcium	10	0.50	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Chromium	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Cobalt	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Copper	0.077	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 22:35	ATP
Iron	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Lead	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 22:35	ATP
Magnesium	6.2	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 22:35	ATP
Manganese	0.19	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Mercury	0.00021	0.00020	mg/L	1		SW-846 7470A	9/11/23	9/12/23 13:18	AAJ
Nickel	0.012	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Potassium	9.6	2.0	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Selenium	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Silver	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Sodium	80	2.0	mg/L	1	MS-19	SW-846 6010D	9/26/23	9/28/23 20:48	ATP
Thallium	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 22:35	ATP
Vanadium	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 22:35	ATP
Zinc	0.039	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 20:48	ATP

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0861

Date Received: 9/8/2023

Field Sample #: ASF-CP-00-090723

Sampled: 9/7/2023 11:00

Sample ID: 23I0861-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	1.5	1.0	mg/L	1		SM 21-23 5310B	9/21/23	9/21/23 15:56	NRH
Total Suspended Solids	ND	1.0	mg/L	1		SM21-23 2540D	9/11/23	9/11/23 13:36	LL

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: ASF-CP-01-090723

Sampled: 9/7/2023 11:00

Sample ID: 2310861-02

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	19	0.20	µg/L	1		SW-846 8270E	9/14/23	9/21/23 17:23	CJM
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
1,4-Dioxane-d8	29.8	15-110						9/21/23 17:23	

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0861

Date Received: 9/8/2023

Field Sample #: ASF-CP-01-090723

Sampled: 9/7/2023 11:00

Sample ID: 23I0861-02

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:07	ATP
Antimony	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Arsenic	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:07	ATP
Barium	0.091	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Beryllium	ND	0.0040	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Calcium	10	0.50	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Chromium	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Cobalt	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Copper	0.078	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:07	ATP
Iron	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Lead	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:07	ATP
Magnesium	6.2	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:07	ATP
Manganese	0.19	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Mercury	ND	0.00020	mg/L	1		SW-846 7470A	9/11/23	9/12/23 13:20	AAJ
Nickel	0.012	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Potassium	9.7	2.0	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Selenium	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Silver	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Sodium	80	2.0	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP
Thallium	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:07	ATP
Vanadium	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:07	ATP
Zinc	0.038	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:17	ATP

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: ASF-CP-01-090723

Sampled: 9/7/2023 11:00

Sample ID: 2310861-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	1.3	1.0	mg/L	1		SM 21-23 5310B	9/21/23	9/21/23 16:48	NRH

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-00-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.2	50	2.0	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-00-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	79.6	70-130	

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-00-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-03

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Acenaphthylene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Acetophenone	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Aniline	ND	4.8	µg/L	1	V-34	SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Anthracene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Benzidine	ND	19	µg/L	1	V-04, V-05	SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Benzo(a)anthracene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Benzo(a)pyrene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Benzo(b)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Benzo(g,h,i)perylene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Benzo(k)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Benzoic Acid	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Bis(2-chloroethoxy)methane	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Bis(2-chloroethyl)ether	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Bis(2-chloroisopropyl)ether	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Bis(2-Ethylhexyl)phthalate	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/14/23	9/18/23 14:42	AR2
4-Bromophenylphenylether	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Butylbenzylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Carbazole	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
4-Chloroaniline	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
4-Chloro-3-methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2-Chloronaphthalene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2-Chlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
4-Chlorophenylphenylether	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Chrysene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Dibenz(a,h)anthracene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Dibenzofuran	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Di-n-butylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
1,2-Dichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
1,3-Dichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
1,4-Dichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
3,3-Dichlorobenzidine	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2,4-Dichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Diethylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2,4-Dimethylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Dimethylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
4,6-Dinitro-2-methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2,4-Dinitrophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2,4-Dinitrotoluene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2,6-Dinitrotoluene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Di-n-octylphthalate	ND	9.6	µg/L	1	V-05	SW-846 8270E	9/14/23	9/18/23 14:42	AR2
1,2-Diphenylhydrazine/Azobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Fluorene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-00-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-03

Sample Matrix: Water

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Hexachlorobutadiene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Hexachlorocyclopentadiene	ND	9.6	µg/L	1	V-05	SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Hexachloroethane	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Indeno(1,2,3-cd)pyrene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Isophorone	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
1-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2-Methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
3/4-Methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Naphthalene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2-Nitroaniline	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/14/23	9/18/23 14:42	AR2
3-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
4-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Nitrobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2-Nitrophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
4-Nitrophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
N-Nitrosodimethylamine	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
N-Nitrosodiphenylamine/Diphenylamine	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
N-Nitrosodi-n-propylamine	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Pentachloronitrobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Pentachlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Phenanthrene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Phenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Pyrene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Pyridine	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
1,2,4,5-Tetrachlorobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
1,2,4-Trichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2,4,5-Trichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
2,4,6-Trichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 14:42	AR2
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	49.7	15-110						9/18/23 14:42	
Phenol-d6	36.2	15-110						9/18/23 14:42	
Nitrobenzene-d5	70.6	30-130						9/18/23 14:42	
2-Fluorobiphenyl	74.8	30-130						9/18/23 14:42	
2,4,6-Tribromophenol	77.7	15-110						9/18/23 14:42	
p-Terphenyl-d14	82.2	30-130						9/18/23 14:42	

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-00-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-03

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	19	0.20	µg/L	1		SW-846 8270E	9/14/23	9/21/23 17:43	CJM
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
1,4-Dioxane-d8	30.3	15-110						9/21/23 17:43	

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-00-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-03

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:02	ATP
Antimony	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Arsenic	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:02	ATP
Barium	0.089	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Beryllium	ND	0.0040	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Calcium	9.9	0.50	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Chromium	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Cobalt	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Copper	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:02	ATP
Iron	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Lead	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:02	ATP
Magnesium	6.0	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:02	ATP
Manganese	0.18	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Mercury	ND	0.00020	mg/L	1		SW-846 7470A	9/18/23	9/19/23 15:03	AAJ
Nickel	0.011	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Potassium	9.4	2.0	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Selenium	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Silver	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Sodium	78	2.0	mg/L	1	MS-19	SW-846 6010D	9/26/23	9/28/23 21:09	ATP
Thallium	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:02	ATP
Vanadium	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:02	ATP
Zinc	0.017	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:09	ATP

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0861

Date Received: 9/8/2023

Field Sample #: PD-CP-00-090723

Sampled: 9/7/2023 11:30

Sample ID: 23I0861-03

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	130	5.0	mg/L	5	MS-12	EPA 300.0	10/1/23	10/1/23 8:48	EMF
Cyanide	ND	0.010	mg/L	1		SW-846 9014	9/13/23	9/14/23 11:57	DET
Fluoride	ND	0.50	mg/L	5	MS-12	EPA 300.0	10/1/23	10/1/23 8:48	EMF
Hexavalent Chromium	ND	0.0040	mg/L	1	H-09	SW-846 7196A	9/8/23	9/8/23 16:17	jec
Sulfate	22	5.0	mg/L	5	MS-12	EPA 300.0	10/1/23	10/1/23 8:48	EMF
Total Kjeldahl Nitrogen	3.4	1.0	mg/L	1		SM19-23 4500-N Org B,C-NH3 C	9/28/23	10/1/23 11:34	DET

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-00-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-03

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	350	10	mg/L	1		SM21-23 2540C	9/12/23	9/12/23 12:53	LL

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-01-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	4.3	50	2.0	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-01-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-04

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/12/23	9/12/23 16:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	80.8	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-01-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-04

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Acenaphthylene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Acetophenone	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Aniline	ND	4.8	µg/L	1	V-34	SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Anthracene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Benzidine	ND	19	µg/L	1	V-04, V-05	SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Benzo(a)anthracene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Benzo(a)pyrene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Benzo(b)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Benzo(g,h,i)perylene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Benzo(k)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Benzoic Acid	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Bis(2-chloroethoxy)methane	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Bis(2-chloroethyl)ether	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Bis(2-chloroisopropyl)ether	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Bis(2-Ethylhexyl)phthalate	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/14/23	9/18/23 15:03	AR2
4-Bromophenylphenylether	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Butylbenzylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Carbazole	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
4-Chloroaniline	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
4-Chloro-3-methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2-Chloronaphthalene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2-Chlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
4-Chlorophenylphenylether	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Chrysene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Dibenz(a,h)anthracene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Dibenzofuran	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Di-n-butylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
1,2-Dichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
1,3-Dichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
1,4-Dichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
3,3-Dichlorobenzidine	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2,4-Dichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Diethylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2,4-Dimethylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Dimethylphthalate	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
4,6-Dinitro-2-methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2,4-Dinitrophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2,4-Dinitrotoluene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2,6-Dinitrotoluene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Di-n-octylphthalate	ND	9.6	µg/L	1	V-05	SW-846 8270E	9/14/23	9/18/23 15:03	AR2
1,2-Diphenylhydrazine/Azobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Fluorene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-01-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-04

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Hexachlorobutadiene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Hexachlorocyclopentadiene	ND	9.6	µg/L	1	V-05	SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Hexachloroethane	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Indeno(1,2,3-cd)pyrene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Isophorone	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
1-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2-Methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
3/4-Methylphenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Naphthalene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2-Nitroaniline	ND	9.6	µg/L	1	V-06	SW-846 8270E	9/14/23	9/18/23 15:03	AR2
3-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
4-Nitroaniline	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Nitrobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2-Nitrophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
4-Nitrophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
N-Nitrosodimethylamine	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
N-Nitrosodiphenylamine/Diphenylamine	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
N-Nitrosodi-n-propylamine	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Pentachloronitrobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Pentachlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Phenanthrene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Phenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Pyrene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Pyridine	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
1,2,4,5-Tetrachlorobenzene	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
1,2,4-Trichlorobenzene	ND	4.8	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2,4,5-Trichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
2,4,6-Trichlorophenol	ND	9.6	µg/L	1		SW-846 8270E	9/14/23	9/18/23 15:03	AR2
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	49.9	15-110						9/18/23 15:03	
Phenol-d6	37.6	15-110						9/18/23 15:03	
Nitrobenzene-d5	73.4	30-130						9/18/23 15:03	
2-Fluorobiphenyl	70.5	30-130						9/18/23 15:03	
2,4,6-Tribromophenol	73.9	15-110						9/18/23 15:03	
p-Terphenyl-d14	80.1	30-130						9/18/23 15:03	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0861

Date Received: 9/8/2023

Field Sample #: PD-CP-01-090723

Sampled: 9/7/2023 11:30

Sample ID: 23I0861-04

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	19	0.19	µg/L	1		SW-846 8270E	9/14/23	9/21/23 18:03	CJM
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
1,4-Dioxane-d8	29.9	15-110						9/21/23 18:03	

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0861

Date Received: 9/8/2023

Field Sample #: PD-CP-01-090723

Sampled: 9/7/2023 11:30

Sample ID: 23I0861-04

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	120	5.0	mg/L	5		EPA 300.0	10/1/23	10/1/23 9:55	EMF
Cyanide	ND	0.010	mg/L	1		SW-846 9014	9/13/23	9/14/23 11:57	DET
Fluoride	ND	0.50	mg/L	5		EPA 300.0	10/1/23	10/1/23 9:55	EMF
Hexavalent Chromium	ND	0.0040	mg/L	1	H-09	SW-846 7196A	9/8/23	9/8/23 16:17	jec
Sulfate	22	5.0	mg/L	5		EPA 300.0	10/1/23	10/1/23 9:55	EMF
Total Kjeldahl Nitrogen	3.4	1.0	mg/L	1		SM19-23 4500-N Org B,C-NH3 C	9/28/23	10/1/23 13:20	DET

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: PD-CP-01-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310861-04

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	350	10	mg/L	1		SM21-23 2540C	9/12/23	9/12/23 12:53	LL

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: RW3-CP-00-090723

Sampled: 9/7/2023 09:40

Sample ID: 2310861-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Chlorobenzene	0.51	1.0	0.12	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,2-Dichlorobenzene	0.15	1.0	0.13	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,4-Dichlorobenzene	0.42	1.0	0.13	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
cis-1,2-Dichloroethylene	1.3	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,4-Dioxane	24	50	18	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Methyl tert-Butyl Ether (MTBE)	0.77	1.0	0.17	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Tetrachloroethylene	4.5	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0861

Date Received: 9/8/2023

Field Sample #: RW3-CP-00-090723

Sampled: 9/7/2023 09:40

Sample ID: 23I0861-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Trichloroethylene	37	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:02	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	105	70-130	
4-Bromofluorobenzene	81.2	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0861

Date Received: 9/8/2023

Field Sample #: RW3-CP-00-090723

Sampled: 9/7/2023 09:40

Sample ID: 23I0861-05

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:13	ATP
Antimony	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Arsenic	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:13	ATP
Barium	0.056	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Beryllium	ND	0.0040	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Calcium	8.0	0.50	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Chromium	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Cobalt	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Copper	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:13	ATP
Iron	0.26	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Lead	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:13	ATP
Magnesium	5.8	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:13	ATP
Manganese	0.21	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Mercury	ND	0.00020	mg/L	1		SW-846 7470A	9/11/23	9/12/23 13:24	AAJ
Nickel	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Potassium	14	2.0	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Selenium	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Silver	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Sodium	91	2.0	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP
Thallium	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:13	ATP
Vanadium	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:13	ATP
Zinc	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:39	ATP

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: RW3-CP-00-090723

Sampled: 9/7/2023 09:40

Sample ID: 2310861-05

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	1.0	mg/L	1		SM21-23 2540D	9/11/23	9/11/23 13:36	LL

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: RW3-CP-01-090723

Sampled: 9/7/2023 09:40

Sample ID: 2310861-06

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	1.0	mg/L	1		SM21-23 2540D	9/11/23	9/11/23 13:36	LL

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: RW5-CP-00-090723

Sampled: 9/7/2023 10:20

Sample ID: 2310861-08

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,1-Dichloroethane	0.34	1.0	0.14	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,1-Dichloroethylene	2.7	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
cis-1,2-Dichloroethylene	1.8	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Methyl tert-Butyl Ether (MTBE)	0.38	1.0	0.17	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Tetrachloroethylene	6.9	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: RW5-CP-00-090723

Sampled: 9/7/2023 10:20

Sample ID: 2310861-08

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,1,1-Trichloroethane	1.0	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Trichloroethylene	43	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/12/23	9/12/23 18:28	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	99.7		70-130				9/12/23 18:28			
Toluene-d8	101		70-130				9/12/23 18:28			
4-Bromofluorobenzene	79.1		70-130				9/12/23 18:28			

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0861

Date Received: 9/8/2023

Field Sample #: RW5-CP-00-090723

Sampled: 9/7/2023 10:20

Sample ID: 23I0861-08

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:18	ATP
Antimony	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Arsenic	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:18	ATP
Barium	0.11	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Beryllium	ND	0.0040	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Calcium	11	0.50	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Chromium	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Cobalt	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Copper	0.025	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:18	ATP
Iron	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Lead	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:18	ATP
Magnesium	6.4	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:18	ATP
Manganese	0.17	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Mercury	ND	0.00020	mg/L	1		SW-846 7470A	9/11/23	9/12/23 13:25	AAJ
Nickel	0.011	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Potassium	6.2	2.0	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Selenium	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Silver	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Sodium	69	2.0	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP
Thallium	ND	0.050	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:18	ATP
Vanadium	ND	0.010	mg/L	1		SW-846 6010D	9/26/23	9/29/23 23:18	ATP
Zinc	0.045	0.010	mg/L	1		SW-846 6010D	9/26/23	9/28/23 21:46	ATP

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: RW5-CP-00-090723

Sampled: 9/7/2023 10:20

Sample ID: 2310861-08

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	1.0	mg/L	1		SM21-23 2540D	9/11/23	9/11/23 13:36	LL

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310861

Date Received: 9/8/2023

Field Sample #: TB-090723

Sampled: 9/7/2023 09:30

Sample ID: 2310861-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.9	50	2.0	µg/L	1	J	SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Bromoform	ND	1.0	0.41	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
tert-Butyl Alcohol (TBA)	ND	20	4.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0861

Date Received: 9/8/2023

Field Sample #: TB-090723

Sampled: 9/7/2023 09:30

Sample ID: 23I0861-09

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	9/12/23	9/12/23 11:22	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	98.0	70-130	
4-Bromofluorobenzene	86.0	70-130	

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Sample Extraction Data

Prep Method:EPA 300.0 Analytical Method:EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-03 [PD-CP-00-090723]	B351517	10.0	10.0	10/01/23
23I0861-04 [PD-CP-01-090723]	B351517	10.0	10.0	10/01/23

Prep Method:EPA 300.0 Analytical Method:EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-03 [PD-CP-00-090723]	B353516	10.0	10.0	10/01/23
23I0861-04 [PD-CP-01-090723]	B353516	10.0	10.0	10/01/23

SM 21-23 5310B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-01 [ASF-CP-00-090723]	B352663	50.0	50.0	09/21/23
23I0861-02 [ASF-CP-01-090723]	B352663	50.0	50.0	09/21/23

Prep Method:SM4500 N Org B C Analytical Method:SM19-23 4500-N Org B,C-NI

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-03 [PD-CP-00-090723]	B353302	25.0	25.0	09/28/23
23I0861-04 [PD-CP-01-090723]	B353302	25.0	25.0	09/28/23

SM21-23 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
23I0861-03 [PD-CP-00-090723]	B351655	50.0	09/12/23
23I0861-04 [PD-CP-01-090723]	B351655	50.0	09/12/23

SM21-23 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
23I0861-01 [ASF-CP-00-090723]	B351526	500	09/11/23
23I0861-05 [RW3-CP-00-090723]	B351526	500	09/11/23
23I0861-06 [RW3-CP-01-090723]	B351526	500	09/11/23
23I0861-08 [RW5-CP-00-090723]	B351526	500	09/11/23

Prep Method:SW-846 3005A Analytical Method:SW-846 6010D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-01 [ASF-CP-00-090723]	B353162	50.0	50.0	09/26/23
23I0861-02 [ASF-CP-01-090723]	B353162	50.0	50.0	09/26/23
23I0861-03 [PD-CP-00-090723]	B353162	50.0	50.0	09/26/23
23I0861-05 [RW3-CP-00-090723]	B353162	50.0	50.0	09/26/23
23I0861-08 [RW5-CP-00-090723]	B353162	50.0	50.0	09/26/23

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Sample Extraction Data**SW-846 7196A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-03 [PD-CP-00-090723]	B351467	50.0	50.0	09/08/23
23I0861-04 [PD-CP-01-090723]	B351467	50.0	50.0	09/08/23

Prep Method:SW-846 7470A Prep Analytical Method:SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-01 [ASF-CP-00-090723]	B351597	10.0	10.0	09/11/23
23I0861-02 [ASF-CP-01-090723]	B351597	10.0	10.0	09/11/23
23I0861-05 [RW3-CP-00-090723]	B351597	10.0	10.0	09/11/23
23I0861-08 [RW5-CP-00-090723]	B351597	10.0	10.0	09/11/23

Prep Method:SW-846 7470A Prep Analytical Method:SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-03RE1 [PD-CP-00-090723]	B352189	10.0	10.0	09/18/23

Prep Method:SW-846 5030B Analytical Method:SW-846 8260D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-01 [ASF-CP-00-090723]	B351657	5	5.00	09/12/23
23I0861-03 [PD-CP-00-090723]	B351657	5	5.00	09/12/23
23I0861-04 [PD-CP-01-090723]	B351657	5	5.00	09/12/23
23I0861-05 [RW3-CP-00-090723]	B351657	5	5.00	09/12/23
23I0861-08 [RW5-CP-00-090723]	B351657	5	5.00	09/12/23
23I0861-09 [TB-090723]	B351657	5	5.00	09/12/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-01 [ASF-CP-00-090723]	B351830	1040	1.00	09/13/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-01 [ASF-CP-00-090723]	B351918	1020	1.00	09/14/23
23I0861-02 [ASF-CP-01-090723]	B351918	1020	1.00	09/14/23
23I0861-03 [PD-CP-00-090723]	B351918	1020	1.00	09/14/23
23I0861-04 [PD-CP-01-090723]	B351918	1030	1.00	09/14/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0861-03 [PD-CP-00-090723]	B351920	1040	1.00	09/14/23
23I0861-04 [PD-CP-01-090723]	B351920	1040	1.00	09/14/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method:**SW-846 9010C **Analytical Method:**SW-846 9014

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
2310861-03 [PD-CP-00-090723]	B351794	50.0	50.0	09/13/23
2310861-04 [PD-CP-01-090723]	B351794	50.0	50.0	09/13/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B351657 - SW-846 5030B
Blank (B351657-BLK1)

Prepared & Analyzed: 09/12/23

Acetone	ND	50	µg/L
Benzene	ND	1.0	µg/L
Bromochloromethane	ND	1.0	µg/L
Bromodichloromethane	ND	0.50	µg/L
Bromoform	ND	1.0	µg/L
Bromomethane	ND	2.0	µg/L
2-Butanone (MEK)	ND	20	µg/L
tert-Butyl Alcohol (TBA)	ND	20	µg/L
Carbon Disulfide	ND	5.0	µg/L
Carbon Tetrachloride	ND	5.0	µg/L
Chlorobenzene	ND	1.0	µg/L
Chlorodibromomethane	ND	0.50	µg/L
Chloroethane	ND	2.0	µg/L
Chloroform	ND	2.0	µg/L
Chloromethane	ND	2.0	µg/L
Cyclohexane	ND	5.0	µg/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L
1,2-Dibromoethane (EDB)	ND	0.50	µg/L
1,2-Dichlorobenzene	ND	1.0	µg/L
1,3-Dichlorobenzene	ND	1.0	µg/L
1,4-Dichlorobenzene	ND	1.0	µg/L
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L
1,1-Dichloroethane	ND	1.0	µg/L
1,2-Dichloroethane	ND	1.0	µg/L
1,1-Dichloroethylene	ND	1.0	µg/L
cis-1,2-Dichloroethylene	ND	1.0	µg/L
trans-1,2-Dichloroethylene	ND	1.0	µg/L
1,2-Dichloropropane	ND	1.0	µg/L
cis-1,3-Dichloropropene	ND	0.50	µg/L
trans-1,3-Dichloropropene	ND	0.50	µg/L
1,4-Dioxane	ND	50	µg/L
Ethylbenzene	ND	1.0	µg/L
2-Hexanone (MBK)	ND	10	µg/L
Isopropylbenzene (Cumene)	ND	1.0	µg/L
Methyl Acetate	ND	1.0	µg/L
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L
Methyl Cyclohexane	ND	1.0	µg/L
Methylene Chloride	ND	5.0	µg/L
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L
Styrene	ND	1.0	µg/L
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L
Tetrachloroethylene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
1,2,3-Trichlorobenzene	ND	5.0	µg/L
1,2,4-Trichlorobenzene	ND	1.0	µg/L
1,1,1-Trichloroethane	ND	1.0	µg/L
1,1,2-Trichloroethane	ND	1.0	µg/L
Trichloroethylene	ND	1.0	µg/L
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L
Vinyl Chloride	ND	2.0	µg/L

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B351657 - SW-846 5030B										
Blank (B351657-BLK1)				Prepared & Analyzed: 09/12/23						
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	26.1		µg/L	25.0		104	70-130			
Surrogate: Toluene-d8	23.9		µg/L	25.0		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	21.4		µg/L	25.0		85.5	70-130			
LCS (B351657-BS1)				Prepared & Analyzed: 09/12/23						
Acetone	95.1	50	µg/L	100		95.1	70-160			†
Benzene	11.3	1.0	µg/L	10.0		113	70-130			
Bromochloromethane	11.6	1.0	µg/L	10.0		116	70-130			V-20
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130			
Bromoform	7.86	1.0	µg/L	10.0		78.6	70-130			
Bromomethane	11.6	2.0	µg/L	10.0		116	40-160			†
2-Butanone (MEK)	103	20	µg/L	100		103	40-160			†
tert-Butyl Alcohol (TBA)	69.8	20	µg/L	100		69.8	40-160			†
Carbon Disulfide	104	5.0	µg/L	100		104	70-130			
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130			
Chlorobenzene	9.99	1.0	µg/L	10.0		99.9	70-130			
Chlorodibromomethane	9.79	0.50	µg/L	10.0		97.9	70-130			
Chloroethane	10.1	2.0	µg/L	10.0		101	70-130			
Chloroform	10.5	2.0	µg/L	10.0		105	70-130			
Chloromethane	12.5	2.0	µg/L	10.0		125	40-160			V-20 †
Cyclohexane	10.7	5.0	µg/L	10.0		107	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.65	5.0	µg/L	10.0		86.5	70-130			
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130			
1,2-Dichlorobenzene	9.93	1.0	µg/L	10.0		99.3	70-130			
1,3-Dichlorobenzene	9.79	1.0	µg/L	10.0		97.9	70-130			
1,4-Dichlorobenzene	9.85	1.0	µg/L	10.0		98.5	70-130			
Dichlorodifluoromethane (Freon 12)	12.1	2.0	µg/L	10.0		121	40-160			V-20 †
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloroethane	9.90	1.0	µg/L	10.0		99.0	70-130			
1,1-Dichloroethylene	9.95	1.0	µg/L	10.0		99.5	70-130			
cis-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
trans-1,2-Dichloroethylene	9.54	1.0	µg/L	10.0		95.4	70-130			
1,2-Dichloropropane	10.9	1.0	µg/L	10.0		109	70-130			
cis-1,3-Dichloropropene	10.5	0.50	µg/L	10.0		105	70-130			
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130			
1,4-Dioxane	77.9	50	µg/L	100		77.9	40-130			†
Ethylbenzene	9.38	1.0	µg/L	10.0		93.8	70-130			
2-Hexanone (MBK)	89.2	10	µg/L	100		89.2	70-160			†
Isopropylbenzene (Cumene)	8.86	1.0	µg/L	10.0		88.6	70-130			
Methyl Acetate	9.13	1.0	µg/L	10.0		91.3	70-130			
Methyl tert-Butyl Ether (MTBE)	9.37	1.0	µg/L	10.0		93.7	70-130			
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106	70-130			
Methylene Chloride	9.90	5.0	µg/L	10.0		99.0	70-130			
4-Methyl-2-pentanone (MIBK)	90.8	10	µg/L	100		90.8	70-160			†
Styrene	9.29	1.0	µg/L	10.0		92.9	70-130			
1,1,1,2-Tetrachloroethane	9.51	0.50	µg/L	10.0		95.1	70-130			
Tetrachloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
Toluene	10.5	1.0	µg/L	10.0		105	70-130			
1,2,3-Trichlorobenzene	7.85	5.0	µg/L	10.0		78.5	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B351657 - SW-846 5030B
LCS (B351657-BS1)

Prepared & Analyzed: 09/12/23

1,2,4-Trichlorobenzene	7.35	1.0	µg/L	10.0		73.5	70-130			
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
Trichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6	1.0	µg/L	10.0		106	70-130			
Vinyl Chloride	12.6	2.0	µg/L	10.0		126	40-160			V-06 †
m+p Xylene	19.3	2.0	µg/L	20.0		96.4	70-130			
o-Xylene	9.03	1.0	µg/L	10.0		90.3	70-130			
Xylenes (total)	28.3	1.0	µg/L	30.0		94.4	0-200			
Surrogate: 1,2-Dichloroethane-d4	25.6		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	26.2		µg/L	25.0		105	70-130			
Surrogate: 4-Bromofluorobenzene	23.5		µg/L	25.0		94.1	70-130			

LCS Dup (B351657-BS1)

Prepared & Analyzed: 09/12/23

Acetone	97.6	50	µg/L	100		97.6	70-160	2.62	25	†
Benzene	11.4	1.0	µg/L	10.0		114	70-130	0.883	25	
Bromochloromethane	11.6	1.0	µg/L	10.0		116	70-130	0.0865	25	V-20
Bromodichloromethane	10.7	0.50	µg/L	10.0		107	70-130	0.749	25	
Bromoform	8.01	1.0	µg/L	10.0		80.1	70-130	1.89	25	
Bromomethane	11.6	2.0	µg/L	10.0		116	40-160	0.430	25	†
2-Butanone (MEK)	103	20	µg/L	100		103	40-160	0.534	25	†
tert-Butyl Alcohol (TBA)	70.5	20	µg/L	100		70.5	40-160	1.11	25	†
Carbon Disulfide	104	5.0	µg/L	100		104	70-130	0.336	25	
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103	70-130	0.677	25	
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	2.47	25	
Chlorodibromomethane	9.99	0.50	µg/L	10.0		99.9	70-130	2.02	25	
Chloroethane	10.3	2.0	µg/L	10.0		103	70-130	1.67	25	
Chloroform	10.7	2.0	µg/L	10.0		107	70-130	2.07	25	
Chloromethane	12.7	2.0	µg/L	10.0		127	40-160	1.90	25	V-20 †
Cyclohexane	10.7	5.0	µg/L	10.0		107	70-130	0.561	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.79	5.0	µg/L	10.0		87.9	70-130	1.61	25	
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130	6.52	25	
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	1.40	25	
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	5.37	25	
1,4-Dichlorobenzene	9.85	1.0	µg/L	10.0		98.5	70-130	0.00	25	
Dichlorodifluoromethane (Freon 12)	12.0	2.0	µg/L	10.0		120	40-160	0.749	25	V-20 †
1,1-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130	1.65	25	
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130	5.21	25	
1,1,1-Dichloroethylene	9.78	1.0	µg/L	10.0		97.8	70-130	1.72	25	
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	0.498	25	
trans-1,2-Dichloroethylene	9.67	1.0	µg/L	10.0		96.7	70-130	1.35	25	
1,2-Dichloropropane	11.4	1.0	µg/L	10.0		114	70-130	4.40	25	
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130	2.08	25	
trans-1,3-Dichloropropene	10.5	0.50	µg/L	10.0		105	70-130	1.34	25	
1,4-Dioxane	75.4	50	µg/L	100		75.4	40-130	3.31	50	† ‡
Ethylbenzene	9.64	1.0	µg/L	10.0		96.4	70-130	2.73	25	
2-Hexanone (MBK)	89.9	10	µg/L	100		89.9	70-160	0.771	25	†
Isopropylbenzene (Cumene)	8.87	1.0	µg/L	10.0		88.7	70-130	0.113	25	
Methyl Acetate	9.08	1.0	µg/L	10.0		90.8	70-130	0.549	25	
Methyl tert-Butyl Ether (MTBE)	9.45	1.0	µg/L	10.0		94.5	70-130	0.850	25	
Methyl Cyclohexane	10.8	1.0	µg/L	10.0		108	70-130	2.06	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B351657 - SW-846 5030B										
LCS Dup (B351657-BSD1)				Prepared & Analyzed: 09/12/23						
Methylene Chloride	9.97	5.0	µg/L	10.0		99.7	70-130	0.705	25	
4-Methyl-2-pentanone (MIBK)	93.1	10	µg/L	100		93.1	70-160	2.50	25	†
Styrene	9.30	1.0	µg/L	10.0		93.0	70-130	0.108	25	
1,1,2,2-Tetrachloroethane	9.56	0.50	µg/L	10.0		95.6	70-130	0.524	25	
Tetrachloroethylene	10.4	1.0	µg/L	10.0		104	70-130	0.387	25	
Toluene	10.8	1.0	µg/L	10.0		108	70-130	3.19	25	
1,2,3-Trichlorobenzene	7.93	5.0	µg/L	10.0		79.3	70-130	1.01	25	
1,2,4-Trichlorobenzene	7.34	1.0	µg/L	10.0		73.4	70-130	0.136	25	
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	4.39	25	
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130	3.65	25	
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	1.16	25	
Trichlorofluoromethane (Freon 11)	9.99	2.0	µg/L	10.0		99.9	70-130	1.39	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.0		107	70-130	1.12	25	
Vinyl Chloride	12.7	2.0	µg/L	10.0		127	40-160	0.952	25	V-06 †
m+p Xylene	19.2	2.0	µg/L	20.0		96.2	70-130	0.156	25	
o-Xylene	9.12	1.0	µg/L	10.0		91.2	70-130	0.992	25	
Xylenes (total)	28.4	1.0	µg/L	30.0		94.6	0-200	0.212		
Surrogate: 1,2-Dichloroethane-d4	26.3		µg/L	25.0		105	70-130			
Surrogate: Toluene-d8	26.8		µg/L	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	23.2		µg/L	25.0		92.9	70-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B351830 - SW-846 3510C
Blank (B351830-BLK1)

Prepared: 09/13/23 Analyzed: 09/14/23

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							V-05, V-34
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							R-05, V-04, V-05, V-34
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							V-04, V-20
2,4-Dinitrophenol	ND	10	µg/L							V-04, V-20, V-35
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L							V-05
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B351830 - SW-846 3510C
Blank (B351830-BLK1)

Prepared: 09/13/23 Analyzed: 09/14/23

2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							V-35
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							L-04, V-05
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	76.1		µg/L	200		38.1	15-110			
Surrogate: Phenol-d6	48.5		µg/L	200		24.3	15-110			
Surrogate: Nitrobenzene-d5	67.4		µg/L	100		67.4	30-130			
Surrogate: 2-Fluorobiphenyl	65.4		µg/L	100		65.4	30-130			
Surrogate: 2,4,6-Tribromophenol	157		µg/L	200		78.5	15-110			
Surrogate: p-Terphenyl-d14	79.3		µg/L	100		79.3	30-130			

LCS (B351830-BS1)

Prepared: 09/13/23 Analyzed: 09/14/23

Acenaphthene	33.0	5.0	µg/L	50.0		66.1	40-140			
Acenaphthylene	34.7	5.0	µg/L	50.0		69.4	40-140			
Acetophenone	29.8	10	µg/L	50.0		59.7	40-140			
Aniline	19.0	5.0	µg/L	50.0		38.0	* 40-140			L-07, V-05, V-34
Anthracene	35.7	5.0	µg/L	50.0		71.4	40-140			
Benzdine	26.8	20	µg/L	50.0		53.6	40-140			R-05, V-04, V-05, V-34
Benzo(a)anthracene	36.6	5.0	µg/L	50.0		73.3	40-140			
Benzo(a)pyrene	37.1	5.0	µg/L	50.0		74.2	40-140			
Benzo(b)fluoranthene	37.3	5.0	µg/L	50.0		74.6	40-140			
Benzo(g,h,i)perylene	38.5	5.0	µg/L	50.0		76.9	40-140			
Benzo(k)fluoranthene	40.4	5.0	µg/L	50.0		80.9	40-140			
Benzoic Acid	9.57	10	µg/L	50.0		19.1	10-130			R-05, V-06 †
Bis(2-chloroethoxy)methane	35.9	10	µg/L	50.0		71.8	40-140			
Bis(2-chloroethyl)ether	29.8	10	µg/L	50.0		59.6	40-140			V-06
Bis(2-chloroisopropyl)ether	33.4	10	µg/L	50.0		66.8	40-140			V-06
Bis(2-Ethylhexyl)phthalate	47.5	10	µg/L	50.0		95.0	40-140			V-06
4-Bromophenylphenylether	37.5	10	µg/L	50.0		75.0	40-140			
Butylbenzylphthalate	42.0	10	µg/L	50.0		83.9	40-140			
Carbazole	36.9	10	µg/L	50.0		73.8	40-140			
4-Chloroaniline	25.1	10	µg/L	50.0		50.3	40-140			R-05
4-Chloro-3-methylphenol	33.3	10	µg/L	50.0		66.6	30-130			
2-Chloronaphthalene	29.1	10	µg/L	50.0		58.1	40-140			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B351830 - SW-846 3510C										
LCS (B351830-BS1)										
Prepared: 09/13/23 Analyzed: 09/14/23										
2-Chlorophenol	27.0	10	µg/L	50.0		53.9	30-130			R-05
4-Chlorophenylphenylether	36.2	10	µg/L	50.0		72.4	40-140			
Chrysene	36.2	5.0	µg/L	50.0		72.5	40-140			
Dibenz(a,h)anthracene	38.6	5.0	µg/L	50.0		77.2	40-140			
Dibenzofuran	34.8	5.0	µg/L	50.0		69.7	40-140			
Di-n-butylphthalate	42.7	10	µg/L	50.0		85.5	40-140			
1,2-Dichlorobenzene	24.0	5.0	µg/L	50.0		48.0	40-140			
1,3-Dichlorobenzene	22.6	5.0	µg/L	50.0		45.2	40-140			R-05
1,4-Dichlorobenzene	22.7	5.0	µg/L	50.0		45.4	40-140			R-05
3,3-Dichlorobenzidine	40.2	10	µg/L	50.0		80.4	40-140			
2,4-Dichlorophenol	33.3	10	µg/L	50.0		66.5	30-130			
Diethylphthalate	39.6	10	µg/L	50.0		79.3	40-140			
2,4-Dimethylphenol	26.3	10	µg/L	50.0		52.6	30-130			
Dimethylphthalate	38.5	10	µg/L	50.0		76.9	40-140			
4,6-Dinitro-2-methylphenol	47.5	10	µg/L	50.0		95.0	30-130			V-04, V-06
2,4-Dinitrophenol	24.7	10	µg/L	50.0		49.5	30-130			R-05, V-04, V-06, V-35
2,4-Dinitrotoluene	43.4	10	µg/L	50.0		86.7	40-140			
2,6-Dinitrotoluene	43.3	10	µg/L	50.0		86.6	40-140			
Di-n-octylphthalate	46.6	10	µg/L	50.0		93.3	40-140			V-05
1,2-Diphenylhydrazine/Azobenzene	34.4	10	µg/L	50.0		68.8	40-140			V-05
Fluoranthene	37.5	5.0	µg/L	50.0		75.0	40-140			
Fluorene	34.2	5.0	µg/L	50.0		68.4	40-140			
Hexachlorobenzene	37.6	10	µg/L	50.0		75.2	40-140			
Hexachlorobutadiene	25.6	10	µg/L	50.0		51.2	40-140			
Hexachlorocyclopentadiene	22.6	10	µg/L	50.0		45.2	30-140			V-05 †
Hexachloroethane	22.6	10	µg/L	50.0		45.2	40-140			
Indeno(1,2,3-cd)pyrene	37.4	5.0	µg/L	50.0		74.8	40-140			
Isophorone	35.1	10	µg/L	50.0		70.2	40-140			
1-Methylnaphthalene	30.9	5.0	µg/L	50.0		61.7	40-140			
2-Methylnaphthalene	31.7	5.0	µg/L	50.0		63.4	40-140			
2-Methylphenol	24.6	10	µg/L	50.0		49.1	30-130			R-05
3/4-Methylphenol	23.7	10	µg/L	50.0		47.4	30-130			R-05
Naphthalene	28.9	5.0	µg/L	50.0		57.7	40-140			
2-Nitroaniline	36.7	10	µg/L	50.0		73.4	40-140			V-06, V-35
3-Nitroaniline	33.5	10	µg/L	50.0		66.9	40-140			R-05
4-Nitroaniline	38.2	10	µg/L	50.0		76.4	40-140			R-05
Nitrobenzene	30.0	10	µg/L	50.0		60.1	40-140			
2-Nitrophenol	35.9	10	µg/L	50.0		71.8	30-130			
4-Nitrophenol	11.4	10	µg/L	50.0		22.9	10-130			R-05 †
N-Nitrosodimethylamine	12.8	10	µg/L	50.0		25.6 *	40-140			L-04, R-05, V-05
N-Nitrosodiphenylamine/Diphenylamine	40.2	10	µg/L	50.0		80.4	40-140			
N-Nitrosodi-n-propylamine	31.2	10	µg/L	50.0		62.4	40-140			
Pentachloronitrobenzene	40.3	10	µg/L	50.0		80.7	40-140			
Pentachlorophenol	36.2	10	µg/L	50.0		72.3	30-130			
Phenanthrene	35.8	5.0	µg/L	50.0		71.6	40-140			
Phenol	10.6	10	µg/L	50.0		21.2	20-130			R-05 †
Pyrene	36.8	5.0	µg/L	50.0		73.6	40-140			
Pyridine	12.2	5.0	µg/L	50.0		24.4	10-140			†
1,2,4,5-Tetrachlorobenzene	30.2	10	µg/L	50.0		60.3	40-140			
1,2,4-Trichlorobenzene	26.6	5.0	µg/L	50.0		53.2	40-140			R-05
2,4,5-Trichlorophenol	36.3	10	µg/L	50.0		72.6	30-130			
2,4,6-Trichlorophenol	34.0	10	µg/L	50.0		68.0	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B351830 - SW-846 3510C
LCS (B351830-BS1)

Prepared: 09/13/23 Analyzed: 09/14/23

Surrogate: 2-Fluorophenol	66.8		µg/L	200		33.4	15-110			
Surrogate: Phenol-d6	45.2		µg/L	200		22.6	15-110			
Surrogate: Nitrobenzene-d5	64.2		µg/L	100		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	67.7		µg/L	100		67.7	30-130			
Surrogate: 2,4,6-Tribromophenol	174		µg/L	200		87.1	15-110			
Surrogate: p-Terphenyl-d14	80.6		µg/L	100		80.6	30-130			

LCS Dup (B351830-BS1)

Prepared: 09/13/23 Analyzed: 09/14/23

Acenaphthene	39.0	5.0	µg/L	50.0		78.0	40-140	16.5	20	
Acenaphthylene	39.2	5.0	µg/L	50.0		78.4	40-140	12.2	20	
Acetophenone	35.5	10	µg/L	50.0		71.0	40-140	17.3	20	
Aniline	23.5	5.0	µg/L	50.0		47.0	40-140	21.1	50	V-05, V-34 ‡
Anthracene	39.2	5.0	µg/L	50.0		78.3	40-140	9.24	20	
Benzidine	17.4	20	µg/L	50.0		34.7 *	40-140	42.8 *	20	L-07A, V-04, V-05, V-34
Benzo(a)anthracene	39.4	5.0	µg/L	50.0		78.9	40-140	7.36	20	
Benzo(a)pyrene	40.0	5.0	µg/L	50.0		79.9	40-140	7.48	20	
Benzo(b)fluoranthene	39.8	5.0	µg/L	50.0		79.6	40-140	6.56	20	
Benzo(g,h,i)perylene	41.4	5.0	µg/L	50.0		82.8	40-140	7.39	20	
Benzo(k)fluoranthene	44.1	5.0	µg/L	50.0		88.1	40-140	8.54	20	
Benzoic Acid	21.5	10	µg/L	50.0		43.0	10-130	76.8 *	50	R-05 † ‡
Bis(2-chloroethoxy)methane	40.4	10	µg/L	50.0		80.8	40-140	11.8	20	
Bis(2-chloroethyl)ether	36.0	10	µg/L	50.0		71.9	40-140	18.7	20	
Bis(2-chloroisopropyl)ether	38.6	10	µg/L	50.0		77.3	40-140	14.5	20	
Bis(2-Ethylhexyl)phthalate	47.1	10	µg/L	50.0		94.3	40-140	0.803	20	
4-Bromophenylphenylether	40.3	10	µg/L	50.0		80.7	40-140	7.32	20	
Butylbenzylphthalate	43.2	10	µg/L	50.0		86.4	40-140	2.87	20	
Carbazole	40.4	10	µg/L	50.0		80.8	40-140	9.08	20	
4-Chloroaniline	36.8	10	µg/L	50.0		73.6	40-140	37.6 *	20	R-05
4-Chloro-3-methylphenol	37.8	10	µg/L	50.0		75.7	30-130	12.7	20	
2-Chloronaphthalene	35.0	10	µg/L	50.0		70.1	40-140	18.7	20	
2-Chlorophenol	34.5	10	µg/L	50.0		68.9	30-130	24.4 *	20	R-05
4-Chlorophenylphenylether	40.6	10	µg/L	50.0		81.2	40-140	11.5	20	
Chrysene	38.9	5.0	µg/L	50.0		77.7	40-140	7.00	20	
Dibenz(a,h)anthracene	40.9	5.0	µg/L	50.0		81.8	40-140	5.81	20	
Dibenzofuran	39.8	5.0	µg/L	50.0		79.7	40-140	13.4	20	
Di-n-butylphthalate	44.6	10	µg/L	50.0		89.1	40-140	4.17	20	
1,2-Dichlorobenzene	28.6	5.0	µg/L	50.0		57.1	40-140	17.5	20	
1,3-Dichlorobenzene	27.9	5.0	µg/L	50.0		55.8	40-140	21.0 *	20	R-05
1,4-Dichlorobenzene	27.8	5.0	µg/L	50.0		55.7	40-140	20.4 *	20	R-05
3,3-Dichlorobenzidine	45.7	10	µg/L	50.0		91.4	40-140	12.9	20	
2,4-Dichlorophenol	37.9	10	µg/L	50.0		75.8	30-130	13.0	20	
Diethylphthalate	42.9	10	µg/L	50.0		85.7	40-140	7.83	20	
2,4-Dimethylphenol	29.4	10	µg/L	50.0		58.8	30-130	11.2	20	
Dimethylphthalate	41.3	10	µg/L	50.0		82.6	40-140	7.05	50	‡
4,6-Dinitro-2-methylphenol	61.8	10	µg/L	50.0		124	30-130	26.0	50	V-04, V-06 ‡
2,4-Dinitrophenol	61.2	10	µg/L	50.0		122	30-130	84.9 *	50	R-05, V-04, V-06, V-35 ‡
2,4-Dinitrotoluene	48.9	10	µg/L	50.0		97.8	40-140	12.0	20	
2,6-Dinitrotoluene	48.3	10	µg/L	50.0		96.5	40-140	10.9	20	
Di-n-octylphthalate	47.3	10	µg/L	50.0		94.7	40-140	1.49	20	
1,2-Diphenylhydrazine/Azobenzene	35.8	10	µg/L	50.0		71.6	40-140	4.05	20	V-05
Fluoranthene	41.1	5.0	µg/L	50.0		82.2	40-140	9.19	20	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B351830 - SW-846 3510C
LCS Dup (B351830-BSD1)

Prepared: 09/13/23 Analyzed: 09/14/23

Fluorene	39.4	5.0	µg/L	50.0		78.9	40-140	14.2	20	
Hexachlorobenzene	41.1	10	µg/L	50.0		82.2	40-140	8.82	20	
Hexachlorobutadiene	30.4	10	µg/L	50.0		60.9	40-140	17.3	20	
Hexachlorocyclopentadiene	27.6	10	µg/L	50.0		55.2	30-140	19.8	50	† ‡
Hexachloroethane	27.3	10	µg/L	50.0		54.5	40-140	18.7	50	‡
Indeno(1,2,3-cd)pyrene	39.6	5.0	µg/L	50.0		79.3	40-140	5.74	50	‡
Isophorone	38.9	10	µg/L	50.0		77.8	40-140	10.2	20	
1-Methylnaphthalene	35.9	5.0	µg/L	50.0		71.8	40-140	15.0	20	
2-Methylnaphthalene	36.5	5.0	µg/L	50.0		73.0	40-140	14.2	20	
2-Methylphenol	31.7	10	µg/L	50.0		63.4	30-130	25.4 *	20	R-05
3/4-Methylphenol	30.6	10	µg/L	50.0		61.2	30-130	25.4 *	20	R-05
Naphthalene	34.2	5.0	µg/L	50.0		68.3	40-140	16.8	20	
2-Nitroaniline	40.3	10	µg/L	50.0		80.6	40-140	9.38	20	V-35
3-Nitroaniline	47.8	10	µg/L	50.0		95.5	40-140	35.2 *	20	R-05
4-Nitroaniline	47.0	10	µg/L	50.0		93.9	40-140	20.5 *	20	R-05
Nitrobenzene	34.7	10	µg/L	50.0		69.4	40-140	14.4	20	
2-Nitrophenol	42.0	10	µg/L	50.0		84.0	30-130	15.7	20	
4-Nitrophenol	19.6	10	µg/L	50.0		39.3	10-130	52.8 *	50	R-05 † ‡
N-Nitrosodimethylamine	19.3	10	µg/L	50.0		38.6 *	40-140	40.3 *	20	L-04, R-05, V-05
N-Nitrosodiphenylamine/Diphenylamine	42.3	10	µg/L	50.0		84.6	40-140	5.19	20	
N-Nitrosodi-n-propylamine	35.7	10	µg/L	50.0		71.4	40-140	13.4	20	
Pentachloronitrobenzene	43.5	10	µg/L	50.0		87.0	40-140	7.56	20	
Pentachlorophenol	41.0	10	µg/L	50.0		81.9	30-130	12.5	50	‡
Phenanthrene	39.3	5.0	µg/L	50.0		78.6	40-140	9.43	20	
Phenol	15.7	10	µg/L	50.0		31.4	20-130	38.8 *	20	R-05 †
Pyrene	39.6	5.0	µg/L	50.0		79.3	40-140	7.48	20	
Pyridine	13.9	5.0	µg/L	50.0		27.7	10-140	12.8	50	† ‡
1,2,4,5-Tetrachlorobenzene	35.0	10	µg/L	50.0		70.0	40-140	14.9	20	
1,2,4-Trichlorobenzene	32.6	5.0	µg/L	50.0		65.3	40-140	20.4 *	20	R-05
2,4,5-Trichlorophenol	41.5	10	µg/L	50.0		83.0	30-130	13.3	20	
2,4,6-Trichlorophenol	38.8	10	µg/L	50.0		77.7	30-130	13.2	50	‡
Surrogate: 2-Fluorophenol	93.4		µg/L	200		46.7	15-110			
Surrogate: Phenol-d6	63.1		µg/L	200		31.6	15-110			
Surrogate: Nitrobenzene-d5	72.0		µg/L	100		72.0	30-130			
Surrogate: 2-Fluorobiphenyl	74.5		µg/L	100		74.5	30-130			
Surrogate: 2,4,6-Tribromophenol	191		µg/L	200		95.4	15-110			
Surrogate: p-Terphenyl-d14	83.1		µg/L	100		83.1	30-130			

Batch B351920 - SW-846 3510C
Blank (B351920-BLK1)

Prepared: 09/14/23 Analyzed: 09/15/23

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							V-05, V-34
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	20	µg/L							V-04, V-05, V-34
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B351920 - SW-846 3510C									
Blank (B351920-BLK1)									
Prepared: 09/14/23 Analyzed: 09/15/23									
Bis(2-chloroethoxy)methane	ND	10	µg/L						
Bis(2-chloroethyl)ether	ND	10	µg/L						
Bis(2-chloroisopropyl)ether	ND	10	µg/L						
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L						
4-Bromophenylphenylether	ND	10	µg/L						
Butylbenzylphthalate	ND	10	µg/L						
Carbazole	ND	10	µg/L						
4-Chloroaniline	ND	10	µg/L						
4-Chloro-3-methylphenol	ND	10	µg/L						
2-Chloronaphthalene	ND	10	µg/L						
2-Chlorophenol	ND	10	µg/L						
4-Chlorophenylphenylether	ND	10	µg/L						
Chrysene	ND	5.0	µg/L						
Dibenz(a,h)anthracene	ND	5.0	µg/L						
Dibenzofuran	ND	5.0	µg/L						
Di-n-butylphthalate	ND	10	µg/L						
1,2-Dichlorobenzene	ND	5.0	µg/L						
1,3-Dichlorobenzene	ND	5.0	µg/L						
1,4-Dichlorobenzene	ND	5.0	µg/L						
3,3-Dichlorobenzidine	ND	10	µg/L						
2,4-Dichlorophenol	ND	10	µg/L						
Diethylphthalate	ND	10	µg/L						
2,4-Dimethylphenol	ND	10	µg/L						
Dimethylphthalate	ND	10	µg/L						
4,6-Dinitro-2-methylphenol	ND	10	µg/L						V-04, V-06
2,4-Dinitrophenol	ND	10	µg/L						V-04, V-06, V-35
2,4-Dinitrotoluene	ND	10	µg/L						V-06
2,6-Dinitrotoluene	ND	10	µg/L						V-06
Di-n-octylphthalate	ND	10	µg/L						
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L						
Fluoranthene	ND	5.0	µg/L						
Fluorene	ND	5.0	µg/L						
Hexachlorobenzene	ND	10	µg/L						
Hexachlorobutadiene	ND	10	µg/L						
Hexachlorocyclopentadiene	ND	10	µg/L						
Hexachloroethane	ND	10	µg/L						
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L						
Isophorone	ND	10	µg/L						
1-Methylnaphthalene	ND	5.0	µg/L						
2-Methylnaphthalene	ND	5.0	µg/L						
2-Methylphenol	ND	10	µg/L						
3/4-Methylphenol	ND	10	µg/L						
Naphthalene	ND	5.0	µg/L						
2-Nitroaniline	ND	10	µg/L						V-35
3-Nitroaniline	ND	10	µg/L						V-06
4-Nitroaniline	ND	10	µg/L						V-06
Nitrobenzene	ND	10	µg/L						
2-Nitrophenol	ND	10	µg/L						
4-Nitrophenol	ND	10	µg/L						
N-Nitrosodimethylamine	ND	10	µg/L						
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L						
N-Nitrosodi-n-propylamine	ND	10	µg/L						

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B351920 - SW-846 3510C
Blank (B351920-BLK1)

Prepared: 09/14/23 Analyzed: 09/15/23

Pentachloronitrobenzene	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	87.4		µg/L	200		43.7	15-110			
Surrogate: Phenol-d6	62.8		µg/L	200		31.4	15-110			
Surrogate: Nitrobenzene-d5	60.7		µg/L	100		60.7	30-130			
Surrogate: 2-Fluorobiphenyl	62.0		µg/L	100		62.0	30-130			
Surrogate: 2,4,6-Tribromophenol	160		µg/L	200		79.8	15-110			
Surrogate: p-Terphenyl-d14	81.3		µg/L	100		81.3	30-130			

LCS (B351920-BS1)

Prepared: 09/14/23 Analyzed: 09/15/23

Acenaphthene	37.6	5.0	µg/L	50.0		75.1	40-140			
Acenaphthylene	38.6	5.0	µg/L	50.0		77.1	40-140			
Acetophenone	33.2	10	µg/L	50.0		66.4	40-140			
Aniline	26.8	5.0	µg/L	50.0		53.6	40-140			V-05, V-34
Anthracene	37.9	5.0	µg/L	50.0		75.8	40-140			
Benzidine	34.5	20	µg/L	50.0		69.1	40-140			V-04, V-05, V-34
Benzo(a)anthracene	39.9	5.0	µg/L	50.0		79.9	40-140			
Benzo(a)pyrene	39.4	5.0	µg/L	50.0		78.9	40-140			
Benzo(b)fluoranthene	39.1	5.0	µg/L	50.0		78.2	40-140			
Benzo(g,h,i)perylene	41.2	5.0	µg/L	50.0		82.3	40-140			
Benzo(k)fluoranthene	42.3	5.0	µg/L	50.0		84.5	40-140			
Benzoic Acid	24.7	10	µg/L	50.0		49.3	10-130			V-06 †
Bis(2-chloroethoxy)methane	37.1	10	µg/L	50.0		74.2	40-140			
Bis(2-chloroethyl)ether	33.2	10	µg/L	50.0		66.3	40-140			V-06
Bis(2-chloroisopropyl)ether	35.0	10	µg/L	50.0		70.1	40-140			V-06
Bis(2-Ethylhexyl)phthalate	38.9	10	µg/L	50.0		77.8	40-140			V-06
4-Bromophenylphenylether	37.0	10	µg/L	50.0		74.0	40-140			
Butylbenzylphthalate	39.2	10	µg/L	50.0		78.4	40-140			
Carbazole	40.7	10	µg/L	50.0		81.4	40-140			
4-Chloroaniline	34.0	10	µg/L	50.0		68.0	40-140			
4-Chloro-3-methylphenol	35.3	10	µg/L	50.0		70.6	30-130			
2-Chloronaphthalene	32.9	10	µg/L	50.0		65.9	40-140			
2-Chlorophenol	33.2	10	µg/L	50.0		66.4	30-130			
4-Chlorophenylphenylether	38.5	10	µg/L	50.0		76.9	40-140			
Chrysene	39.5	5.0	µg/L	50.0		78.9	40-140			
Dibenz(a,h)anthracene	41.1	5.0	µg/L	50.0		82.3	40-140			
Dibenzofuran	38.6	5.0	µg/L	50.0		77.1	40-140			
Di-n-butylphthalate	40.1	10	µg/L	50.0		80.2	40-140			
1,2-Dichlorobenzene	25.5	5.0	µg/L	50.0		50.9	40-140			
1,3-Dichlorobenzene	24.4	5.0	µg/L	50.0		48.9	40-140			
1,4-Dichlorobenzene	24.2	5.0	µg/L	50.0		48.3	40-140			
3,3-Dichlorobenzidine	42.6	10	µg/L	50.0		85.2	40-140			
2,4-Dichlorophenol	36.4	10	µg/L	50.0		72.8	30-130			
Diethylphthalate	40.2	10	µg/L	50.0		80.4	40-140			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B351920 - SW-846 3510C										
LCS (B351920-BS1)										
Prepared: 09/14/23 Analyzed: 09/15/23										
2,4-Dimethylphenol	28.3	10	µg/L	50.0		56.6	30-130			
Dimethylphthalate	40.0	10	µg/L	50.0		80.0	40-140			
4,6-Dinitro-2-methylphenol	59.7	10	µg/L	50.0		119	30-130			V-04, V-06
2,4-Dinitrophenol	63.3	10	µg/L	50.0		127	30-130			V-04, V-06, V-35
2,4-Dinitrotoluene	47.8	10	µg/L	50.0		95.6	40-140			V-06
2,6-Dinitrotoluene	46.8	10	µg/L	50.0		93.6	40-140			V-06
Di-n-octylphthalate	38.4	10	µg/L	50.0		76.7	40-140			V-05
1,2-Diphenylhydrazine/Azobenzene	34.5	10	µg/L	50.0		69.0	40-140			
Fluoranthene	40.6	5.0	µg/L	50.0		81.1	40-140			
Fluorene	38.1	5.0	µg/L	50.0		76.2	40-140			
Hexachlorobenzene	38.8	10	µg/L	50.0		77.6	40-140			
Hexachlorobutadiene	24.8	10	µg/L	50.0		49.6	40-140			
Hexachlorocyclopentadiene	24.0	10	µg/L	50.0		48.1	30-140			V-05 †
Hexachloroethane	22.9	10	µg/L	50.0		45.7	40-140			
Indeno(1,2,3-cd)pyrene	40.6	5.0	µg/L	50.0		81.2	40-140			
Isophorone	36.0	10	µg/L	50.0		72.0	40-140			
1-Methylnaphthalene	31.4	5.0	µg/L	50.0		62.8	40-140			
2-Methylnaphthalene	32.6	5.0	µg/L	50.0		65.3	40-140			
2-Methylphenol	32.2	10	µg/L	50.0		64.3	30-130			
3/4-Methylphenol	30.8	10	µg/L	50.0		61.6	30-130			
Naphthalene	31.0	5.0	µg/L	50.0		61.9	40-140			
2-Nitroaniline	40.5	10	µg/L	50.0		81.1	40-140			V-06, V-35
3-Nitroaniline	46.9	10	µg/L	50.0		93.8	40-140			V-06
4-Nitroaniline	48.2	10	µg/L	50.0		96.5	40-140			V-06
Nitrobenzene	33.0	10	µg/L	50.0		66.0	40-140			
2-Nitrophenol	38.8	10	µg/L	50.0		77.6	30-130			
4-Nitrophenol	23.3	10	µg/L	50.0		46.5	10-130			†
N-Nitrosodimethylamine	20.4	10	µg/L	50.0		40.9	40-140			
N-Nitrosodiphenylamine/Diphenylamine	41.0	10	µg/L	50.0		82.1	40-140			
N-Nitrosodi-n-propylamine	32.5	10	µg/L	50.0		65.0	40-140			
Pentachloronitrobenzene	42.2	10	µg/L	50.0		84.4	40-140			
Pentachlorophenol	38.7	10	µg/L	50.0		77.4	30-130			
Phenanthrene	38.9	5.0	µg/L	50.0		77.7	40-140			
Phenol	17.3	10	µg/L	50.0		34.7	20-130			†
Pyrene	38.7	5.0	µg/L	50.0		77.5	40-140			
Pyridine	19.3	5.0	µg/L	50.0		38.5	10-140			†
1,2,4,5-Tetrachlorobenzene	32.9	10	µg/L	50.0		65.9	40-140			
1,2,4-Trichlorobenzene	28.8	5.0	µg/L	50.0		57.5	40-140			
2,4,5-Trichlorophenol	39.8	10	µg/L	50.0		79.6	30-130			
2,4,6-Trichlorophenol	37.4	10	µg/L	50.0		74.8	30-130			
Surrogate: 2-Fluorophenol	99.9		µg/L	200		50.0	15-110			
Surrogate: Phenol-d6	68.9		µg/L	200		34.5	15-110			
Surrogate: Nitrobenzene-d5	67.9		µg/L	100		67.9	30-130			
Surrogate: 2-Fluorobiphenyl	70.4		µg/L	100		70.4	30-130			
Surrogate: 2,4,6-Tribromophenol	182		µg/L	200		90.8	15-110			
Surrogate: p-Terphenyl-d14	77.3		µg/L	100		77.3	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B351920 - SW-846 3510C										
LCS Dup (B351920-BSD1)										
Prepared: 09/14/23 Analyzed: 09/15/23										
Acenaphthene	39.5	5.0	µg/L	50.0		78.9	40-140	4.93	20	
Acenaphthylene	40.1	5.0	µg/L	50.0		80.2	40-140	3.89	20	
Acetophenone	36.5	10	µg/L	50.0		73.1	40-140	9.64	20	
Aniline	27.2	5.0	µg/L	50.0		54.3	40-140	1.30	50	V-05, V-34 ‡
Anthracene	40.5	5.0	µg/L	50.0		81.1	40-140	6.78	20	
Benzidine	31.0	20	µg/L	50.0		61.9	40-140	10.9	20	V-04, V-05, V-34
Benzo(a)anthracene	41.6	5.0	µg/L	50.0		83.3	40-140	4.19	20	
Benzo(a)pyrene	41.9	5.0	µg/L	50.0		83.7	40-140	5.98	20	
Benzo(b)fluoranthene	41.9	5.0	µg/L	50.0		83.9	40-140	6.98	20	
Benzo(g,h,i)perylene	43.9	5.0	µg/L	50.0		87.7	40-140	6.33	20	
Benzo(k)fluoranthene	45.1	5.0	µg/L	50.0		90.2	40-140	6.52	20	
Benzoic Acid	26.4	10	µg/L	50.0		52.7	10-130	6.59	50	† ‡
Bis(2-chloroethoxy)methane	39.7	10	µg/L	50.0		79.4	40-140	6.77	20	
Bis(2-chloroethyl)ether	35.5	10	µg/L	50.0		71.0	40-140	6.76	20	
Bis(2-chloroisopropyl)ether	39.1	10	µg/L	50.0		78.2	40-140	10.9	20	
Bis(2-Ethylhexyl)phthalate	41.3	10	µg/L	50.0		82.6	40-140	5.99	20	
4-Bromophenylphenylether	41.0	10	µg/L	50.0		82.0	40-140	10.4	20	
Butylbenzylphthalate	40.0	10	µg/L	50.0		79.9	40-140	1.97	20	
Carbazole	42.6	10	µg/L	50.0		85.3	40-140	4.73	20	
4-Chloroaniline	35.3	10	µg/L	50.0		70.6	40-140	3.78	20	
4-Chloro-3-methylphenol	40.0	10	µg/L	50.0		80.0	30-130	12.5	20	
2-Chloronaphthalene	34.2	10	µg/L	50.0		68.4	40-140	3.78	20	
2-Chlorophenol	36.0	10	µg/L	50.0		71.9	30-130	7.95	20	
4-Chlorophenylphenylether	40.1	10	µg/L	50.0		80.1	40-140	4.07	20	
Chrysene	41.0	5.0	µg/L	50.0		81.9	40-140	3.73	20	
Dibenz(a,h)anthracene	42.8	5.0	µg/L	50.0		85.6	40-140	3.98	20	
Dibenzofuran	40.3	5.0	µg/L	50.0		80.6	40-140	4.41	20	
Di-n-butylphthalate	41.1	10	µg/L	50.0		82.3	40-140	2.51	20	
1,2-Dichlorobenzene	28.8	5.0	µg/L	50.0		57.5	40-140	12.1	20	
1,3-Dichlorobenzene	27.9	5.0	µg/L	50.0		55.8	40-140	13.2	20	
1,4-Dichlorobenzene	27.5	5.0	µg/L	50.0		55.1	40-140	13.0	20	
3,3-Dichlorobenzidine	45.1	10	µg/L	50.0		90.2	40-140	5.70	20	
2,4-Dichlorophenol	39.9	10	µg/L	50.0		79.8	30-130	9.22	20	
Diethylphthalate	41.5	10	µg/L	50.0		82.9	40-140	3.13	20	
2,4-Dimethylphenol	30.2	10	µg/L	50.0		60.3	30-130	6.26	20	
Dimethylphthalate	41.3	10	µg/L	50.0		82.6	40-140	3.17	50	‡
4,6-Dinitro-2-methylphenol	64.9	10	µg/L	50.0		130	30-130	8.46	50	V-04, V-06 ‡
2,4-Dinitrophenol	69.0	10	µg/L	50.0		138	* 30-130	8.53	50	L-07, V-04, V-06, V-35 ‡
2,4-Dinitrotoluene	51.1	10	µg/L	50.0		102	40-140	6.70	20	V-06
2,6-Dinitrotoluene	50.8	10	µg/L	50.0		102	40-140	8.20	20	V-06
Di-n-octylphthalate	41.9	10	µg/L	50.0		83.7	40-140	8.72	20	
1,2-Diphenylhydrazine/Azobenzene	36.5	10	µg/L	50.0		73.0	40-140	5.75	20	
Fluoranthene	43.1	5.0	µg/L	50.0		86.1	40-140	6.03	20	
Fluorene	40.5	5.0	µg/L	50.0		80.9	40-140	5.96	20	
Hexachlorobenzene	42.1	10	µg/L	50.0		84.2	40-140	8.26	20	
Hexachlorobutadiene	28.0	10	µg/L	50.0		56.0	40-140	12.2	20	
Hexachlorocyclopentadiene	24.0	10	µg/L	50.0		48.1	30-140	0.0832	50	† ‡
Hexachloroethane	26.5	10	µg/L	50.0		53.0	40-140	14.7	50	‡
Indeno(1,2,3-cd)pyrene	42.6	5.0	µg/L	50.0		85.3	40-140	4.93	50	‡
Isophorone	39.9	10	µg/L	50.0		79.8	40-140	10.4	20	
1-Methylnaphthalene	36.3	5.0	µg/L	50.0		72.6	40-140	14.4	20	
2-Methylnaphthalene	37.1	5.0	µg/L	50.0		74.2	40-140	12.8	20	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B351920 - SW-846 3510C										
LCS Dup (B351920-BSD1)										
Prepared: 09/14/23 Analyzed: 09/15/23										
2-Methylphenol	35.0	10	µg/L	50.0		70.1	30-130	8.57	20	
3/4-Methylphenol	33.2	10	µg/L	50.0		66.4	30-130	7.50	20	
Naphthalene	33.6	5.0	µg/L	50.0		67.3	40-140	8.26	20	
2-Nitroaniline	42.8	10	µg/L	50.0		85.6	40-140	5.49	20	V-35
3-Nitroaniline	48.3	10	µg/L	50.0		96.7	40-140	3.00	20	V-06
4-Nitroaniline	49.5	10	µg/L	50.0		99.0	40-140	2.60	20	V-06
Nitrobenzene	34.5	10	µg/L	50.0		69.1	40-140	4.59	20	
2-Nitrophenol	42.8	10	µg/L	50.0		85.6	30-130	9.88	20	
4-Nitrophenol	24.4	10	µg/L	50.0		48.8	10-130	4.82	50	† ‡
N-Nitrosodimethylamine	22.5	10	µg/L	50.0		45.0	40-140	9.46	20	
N-Nitrosodiphenylamine/Diphenylamine	43.4	10	µg/L	50.0		86.9	40-140	5.73	20	
N-Nitrosodi-n-propylamine	36.9	10	µg/L	50.0		73.8	40-140	12.7	20	
Pentachloronitrobenzene	45.1	10	µg/L	50.0		90.2	40-140	6.69	20	
Pentachlorophenol	42.3	10	µg/L	50.0		84.6	30-130	8.96	50	‡
Phenanthrene	41.2	5.0	µg/L	50.0		82.3	40-140	5.70	20	
Phenol	18.7	10	µg/L	50.0		37.4	20-130	7.66	20	†
Pyrene	40.5	5.0	µg/L	50.0		81.0	40-140	4.44	20	
Pyridine	19.8	5.0	µg/L	50.0		39.6	10-140	2.82	50	† ‡
1,2,4,5-Tetrachlorobenzene	34.2	10	µg/L	50.0		68.4	40-140	3.72	20	
1,2,4-Trichlorobenzene	31.3	5.0	µg/L	50.0		62.6	40-140	8.43	20	
2,4,5-Trichlorophenol	42.4	10	µg/L	50.0		84.7	30-130	6.23	20	
2,4,6-Trichlorophenol	39.8	10	µg/L	50.0		79.6	30-130	6.14	50	‡
Surrogate: 2-Fluorophenol	105		µg/L	200		52.5	15-110			
Surrogate: Phenol-d6	74.7		µg/L	200		37.3	15-110			
Surrogate: Nitrobenzene-d5	72.5		µg/L	100		72.5	30-130			
Surrogate: 2-Fluorobiphenyl	72.7		µg/L	100		72.7	30-130			
Surrogate: 2,4,6-Tribromophenol	195		µg/L	200		97.5	15-110			
Surrogate: p-Terphenyl-d14	80.8		µg/L	100		80.8	30-130			

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QUALITY CONTROL
1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B351918 - SW-846 3510C										
Blank (B351918-BLK1)										
				Prepared: 09/14/23 Analyzed: 09/19/23						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.61		µg/L	10.0		26.1	15-110			
LCS (B351918-BS1)										
				Prepared: 09/14/23 Analyzed: 09/19/23						
1,4-Dioxane	11.1	0.20	µg/L	10.0		111	40-140			
Surrogate: 1,4-Dioxane-d8	4.28		µg/L	10.0		42.8	15-110			
LCS Dup (B351918-BSD1)										
				Prepared: 09/14/23 Analyzed: 09/19/23						
1,4-Dioxane	12.2	0.20	µg/L	10.0		122	40-140	9.73	30	
Surrogate: 1,4-Dioxane-d8	3.65		µg/L	10.0		36.5	15-110			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B351597 - SW-846 7470A Prep										
Blank (B351597-BLK1)				Prepared: 09/11/23 Analyzed: 09/12/23						
Mercury	ND	0.00020	mg/L							
LCS (B351597-BS1)				Prepared: 09/11/23 Analyzed: 09/12/23						
Mercury	0.00423	0.00020	mg/L	0.00402		105	80-120			
LCS Dup (B351597-BSD1)				Prepared: 09/11/23 Analyzed: 09/12/23						
Mercury	0.00430	0.00020	mg/L	0.00402		107	80-120	1.83	20	
Matrix Spike (B351597-MS1)				Source: 23I0861-01		Prepared: 09/11/23 Analyzed: 09/12/23				
Mercury	0.00442	0.00020	mg/L	0.00402	0.000211	105	75-125			
Matrix Spike Dup (B351597-MSD1)				Source: 23I0861-01		Prepared: 09/11/23 Analyzed: 09/12/23				
Mercury	0.00446	0.00020	mg/L	0.00402	0.000211	106	75-125	0.942	20	
Batch B352189 - SW-846 7470A Prep										
Blank (B352189-BLK1)				Prepared: 09/18/23 Analyzed: 09/19/23						
Mercury	ND	0.00020	mg/L							
LCS (B352189-BS1)				Prepared: 09/18/23 Analyzed: 09/19/23						
Mercury	0.00421	0.00020	mg/L	0.00402		105	80-120			
LCS Dup (B352189-BSD1)				Prepared: 09/18/23 Analyzed: 09/19/23						
Mercury	0.00440	0.00020	mg/L	0.00402		110	80-120	4.49	20	
Matrix Spike (B352189-MS1)				Source: 23I0861-03RE1		Prepared: 09/18/23 Analyzed: 09/19/23				
Mercury	0.00455	0.00020	mg/L	0.00402	ND	113	75-125			
Matrix Spike Dup (B352189-MSD1)				Source: 23I0861-03RE1		Prepared: 09/18/23 Analyzed: 09/19/23				
Mercury	0.00459	0.00020	mg/L	0.00402	ND	114	75-125	0.889	20	
Batch B353162 - SW-846 3005A										
Blank (B353162-BLK1)				Prepared: 09/26/23 Analyzed: 09/28/23						
Antimony	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.50	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Sodium	ND	2.0	mg/L							
Zinc	ND	0.010	mg/L							

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B353162 - SW-846 3005A
Blank (B353162-BLK2)

Prepared: 09/26/23 Analyzed: 09/29/23

Aluminum	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.050	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							

LCS (B353162-BS1)

Prepared: 09/26/23 Analyzed: 09/28/23

Antimony	0.518	0.050	mg/L	0.500		104	80-120			
Barium	0.521	0.050	mg/L	0.500		104	80-120			
Beryllium	0.507	0.0040	mg/L	0.500		101	80-120			
Cadmium	0.514	0.0040	mg/L	0.500		103	80-120			
Calcium	3.98	0.50	mg/L	4.00		99.5	80-120			
Chromium	0.516	0.010	mg/L	0.500		103	80-120			
Cobalt	0.514	0.010	mg/L	0.500		103	80-120			
Iron	4.02	0.050	mg/L	4.00		101	80-120			
Manganese	0.504	0.010	mg/L	0.500		101	80-120			
Nickel	0.517	0.010	mg/L	0.500		103	80-120			
Potassium	4.20	2.0	mg/L	4.00		105	80-120			
Selenium	0.492	0.050	mg/L	0.500		98.3	80-120			
Silver	0.537	0.010	mg/L	0.500		107	80-120			
Sodium	4.17	2.0	mg/L	4.00		104	80-120			
Zinc	1.04	0.010	mg/L	1.00		104	80-120			

LCS (B353162-BS2)

Prepared: 09/26/23 Analyzed: 09/29/23

Aluminum	0.496	0.050	mg/L	0.500		99.2	45.3-154.7			
Arsenic	0.461	0.010	mg/L	0.500		92.1	80-120			
Copper	0.953	0.010	mg/L	1.00		95.3	80-120			
Lead	0.490	0.010	mg/L	0.500		97.9	80-120			
Magnesium	4.03	0.050	mg/L	4.00		101	80-120			
Thallium	0.479	0.050	mg/L	0.500		95.7	80-120			
Vanadium	0.494	0.010	mg/L	0.500		98.8	80-120			

LCS Dup (B353162-BSD1)

Prepared: 09/26/23 Analyzed: 09/28/23

Antimony	0.537	0.050	mg/L	0.500		107	80-120	3.59	20	
Barium	0.532	0.050	mg/L	0.500		106	80-120	2.05	20	
Beryllium	0.516	0.0040	mg/L	0.500		103	80-120	1.91	20	
Cadmium	0.525	0.0040	mg/L	0.500		105	80-120	2.14	20	
Calcium	4.06	0.50	mg/L	4.00		102	80-120	2.01	20	
Chromium	0.525	0.010	mg/L	0.500		105	80-120	1.77	20	
Cobalt	0.524	0.010	mg/L	0.500		105	80-120	1.91	20	
Iron	4.10	0.050	mg/L	4.00		102	80-120	1.89	20	
Magnesium	4.20	0.050	mg/L	4.00		105	80-120	1.71	20	
Manganese	0.513	0.010	mg/L	0.500		103	80-120	1.69	20	
Nickel	0.526	0.010	mg/L	0.500		105	80-120	1.69	30	
Potassium	4.34	2.0	mg/L	4.00		108	80-120	3.15	20	
Selenium	0.498	0.050	mg/L	0.500		99.5	80-120	1.22	20	
Silver	0.526	0.010	mg/L	0.500		105	80-120	2.09	20	
Sodium	4.23	2.0	mg/L	4.00		106	80-120	1.49	20	
Zinc	1.06	0.010	mg/L	1.00		106	80-120	1.74	20	

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B353162 - SW-846 3005A										
LCS Dup (B353162-BSD2)				Prepared: 09/26/23 Analyzed: 09/29/23						
Aluminum	0.508	0.050	mg/L	0.500		102	45.3-154.7	2.43	30	
Arsenic	0.459	0.010	mg/L	0.500		91.7	80-120	0.412	20	
Copper	0.938	0.010	mg/L	1.00		93.8	80-120	1.66	20	
Lead	0.487	0.010	mg/L	0.500		97.4	80-120	0.552	20	
Magnesium	4.01	0.050	mg/L	4.00		100	80-120	0.493	20	
Thallium	0.477	0.050	mg/L	0.500		95.4	80-120	0.328	20	
Vanadium	0.488	0.010	mg/L	0.500		97.5	80-120	1.28	20	
Matrix Spike (B353162-MS1)				Source: 23I0861-01		Prepared: 09/26/23 Analyzed: 09/28/23				
Antimony	0.532	0.050	mg/L	0.500	ND	106	75-125			
Barium	0.608	0.050	mg/L	0.500	0.0906	103	75-125			
Beryllium	0.513	0.0040	mg/L	0.500	ND	103	75-125			
Cadmium	0.517	0.0040	mg/L	0.500	ND	103	75-125			
Calcium	14.1	0.50	mg/L	4.00	10.2	98.9	75-125			
Chromium	0.510	0.010	mg/L	0.500	ND	102	75-125			
Cobalt	0.514	0.010	mg/L	0.500	0.00627	101	75-125			
Iron	4.09	0.050	mg/L	4.00	0.0249	102	75-125			
Manganese	0.694	0.010	mg/L	0.500	0.190	101	75-125			
Nickel	0.519	0.010	mg/L	0.500	0.0121	101	75-125			
Potassium	13.7	2.0	mg/L	4.00	9.64	101	75-125			
Selenium	0.499	0.050	mg/L	0.500	ND	99.7	75-125			
Silver	0.491	0.010	mg/L	0.500	ND	98.3	75-125			
Sodium	81.3	2.0	mg/L	4.00	80.4	23.1	* 75-125			MS-19
Zinc	1.10	0.010	mg/L	1.00	0.0391	106	75-125			
Matrix Spike (B353162-MS2)				Source: 23I0861-03		Prepared: 09/26/23 Analyzed: 09/28/23				
Antimony	0.529	0.050	mg/L	0.500	ND	106	75-125			
Barium	0.609	0.050	mg/L	0.500	0.0892	104	75-125			
Beryllium	0.505	0.0040	mg/L	0.500	ND	101	75-125			
Cadmium	0.522	0.0040	mg/L	0.500	ND	104	75-125			
Calcium	14.0	0.50	mg/L	4.00	9.93	102	75-125			
Chromium	0.513	0.010	mg/L	0.500	ND	103	75-125			
Cobalt	0.514	0.010	mg/L	0.500	0.00621	102	75-125			
Iron	4.02	0.050	mg/L	4.00	0.0329	99.7	75-125			
Manganese	0.682	0.010	mg/L	0.500	0.182	100	75-125			
Nickel	0.522	0.010	mg/L	0.500	0.0110	102	75-125			
Potassium	13.7	2.0	mg/L	4.00	9.43	106	75-125			
Selenium	0.498	0.050	mg/L	0.500	ND	99.5	75-125			
Silver	0.513	0.010	mg/L	0.500	ND	103	75-125			
Sodium	83.5	2.0	mg/L	4.00	77.9	139	* 75-125			MS-19
Zinc	1.08	0.010	mg/L	1.00	0.0168	107	75-125			
Matrix Spike (B353162-MS3)				Source: 23I0861-01		Prepared: 09/26/23 Analyzed: 09/29/23				
Aluminum	0.500	0.050	mg/L	0.500	ND	99.9	75-125			
Arsenic	0.470	0.010	mg/L	0.500	ND	94.0	75-125			
Copper	1.06	0.010	mg/L	1.00	0.0773	98.0	75-125			
Lead	0.482	0.010	mg/L	0.500	ND	96.4	75-125			
Magnesium	9.78	0.050	mg/L	4.00	6.24	88.6	75-125			
Thallium	0.494	0.050	mg/L	0.500	ND	98.9	75-125			
Vanadium	0.501	0.010	mg/L	0.500	ND	100	75-125			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B353162 - SW-846 3005A										
Matrix Spike (B353162-MS4)		Source: 2310861-03		Prepared: 09/26/23 Analyzed: 09/29/23						
Aluminum	0.496	0.050	mg/L	0.500	ND	99.2	75-125			
Arsenic	0.472	0.010	mg/L	0.500	ND	94.5	75-125			
Copper	0.984	0.010	mg/L	1.00	0.00739	97.6	75-125			
Lead	0.482	0.010	mg/L	0.500	ND	96.4	75-125			
Magnesium	9.84	0.050	mg/L	4.00	6.00	95.9	75-125			
Thallium	0.487	0.050	mg/L	0.500	ND	97.4	75-125			
Vanadium	0.499	0.010	mg/L	0.500	ND	99.8	75-125			
Matrix Spike Dup (B353162-MSD1)		Source: 2310861-01		Prepared: 09/26/23 Analyzed: 09/28/23						
Antimony	0.529	0.050	mg/L	0.500	ND	106	75-125	0.516	20	
Barium	0.602	0.050	mg/L	0.500	0.0906	102	75-125	0.952	20	
Beryllium	0.512	0.0040	mg/L	0.500	ND	102	75-125	0.184	20	
Cadmium	0.513	0.0040	mg/L	0.500	ND	103	75-125	0.652	20	
Calcium	14.1	0.50	mg/L	4.00	10.2	98.7	75-125	0.0501	20	
Chromium	0.506	0.010	mg/L	0.500	ND	101	75-125	0.812	20	
Cobalt	0.509	0.010	mg/L	0.500	0.00627	101	75-125	0.938	20	
Iron	4.07	0.050	mg/L	4.00	0.0249	101	75-125	0.388	20	
Magnesium	10.4	0.050	mg/L	4.00	6.24	105	75-125	0.407	20	
Manganese	0.694	0.010	mg/L	0.500	0.190	101	75-125	0.0140	20	
Nickel	0.515	0.010	mg/L	0.500	0.0121	101	75-125	0.853	20	
Potassium	13.7	2.0	mg/L	4.00	9.64	101	75-125	0.0266	20	
Selenium	0.493	0.050	mg/L	0.500	ND	98.5	75-125	1.23	20	
Silver	0.470	0.010	mg/L	0.500	ND	94.1	75-125	4.37	20	
Sodium	83.0	2.0	mg/L	4.00	80.4	65.4	* 75-125	2.06	20	MS-19
Zinc	1.09	0.010	mg/L	1.00	0.0391	105	75-125	0.581	20	
Matrix Spike Dup (B353162-MSD2)		Source: 2310861-03		Prepared: 09/26/23 Analyzed: 09/28/23						
Antimony	0.532	0.050	mg/L	0.500	ND	106	75-125	0.574	20	
Barium	0.612	0.050	mg/L	0.500	0.0892	105	75-125	0.503	20	
Beryllium	0.505	0.0040	mg/L	0.500	ND	101	75-125	0.000637	20	
Cadmium	0.522	0.0040	mg/L	0.500	ND	104	75-125	0.0406	20	
Calcium	14.0	0.50	mg/L	4.00	9.93	103	75-125	0.117	20	
Chromium	0.515	0.010	mg/L	0.500	ND	103	75-125	0.449	20	
Cobalt	0.516	0.010	mg/L	0.500	0.00621	102	75-125	0.345	20	
Iron	4.02	0.050	mg/L	4.00	0.0329	99.6	75-125	0.108	20	
Magnesium	10.4	0.050	mg/L	4.00	6.00	110	75-125	0.0360	20	
Manganese	0.683	0.010	mg/L	0.500	0.182	100	75-125	0.0294	20	
Nickel	0.522	0.010	mg/L	0.500	0.0110	102	75-125	0.0141	20	
Potassium	13.6	2.0	mg/L	4.00	9.43	105	75-125	0.163	20	
Selenium	0.502	0.050	mg/L	0.500	ND	100	75-125	0.865	20	
Silver	0.498	0.010	mg/L	0.500	ND	99.6	75-125	2.97	20	
Sodium	82.1	2.0	mg/L	4.00	77.9	104	75-125	1.71	20	MS-19
Zinc	1.09	0.010	mg/L	1.00	0.0168	107	75-125	0.281	20	

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B353162 - SW-846 3005A
Matrix Spike Dup (B353162-MSD3)
Source: 2310861-01

Prepared: 09/26/23 Analyzed: 09/29/23

Aluminum	0.512	0.050	mg/L	0.500	ND	102	75-125	2.43	20	
Arsenic	0.471	0.010	mg/L	0.500	ND	94.3	75-125	0.239	20	
Copper	1.04	0.010	mg/L	1.00	0.0773	96.7	75-125	1.20	20	
Lead	0.482	0.010	mg/L	0.500	ND	96.3	75-125	0.0923	20	
Magnesium	10.1	0.050	mg/L	4.00	6.24	97.3	75-125	3.49	20	
Thallium	0.471	0.050	mg/L	0.500	ND	94.1	75-125	4.89	20	
Vanadium	0.492	0.010	mg/L	0.500	ND	98.5	75-125	1.85	20	

Matrix Spike Dup (B353162-MSD4)
Source: 2310861-03

Prepared: 09/26/23 Analyzed: 09/29/23

Aluminum	0.486	0.050	mg/L	0.500	ND	97.1	75-125	2.11	20	
Arsenic	0.465	0.010	mg/L	0.500	ND	93.1	75-125	1.53	20	
Copper	0.974	0.010	mg/L	1.00	0.00739	96.7	75-125	1.01	20	
Lead	0.474	0.010	mg/L	0.500	ND	94.8	75-125	1.64	20	
Magnesium	9.82	0.050	mg/L	4.00	6.00	95.5	75-125	0.182	20	
Thallium	0.475	0.050	mg/L	0.500	ND	95.0	75-125	2.48	20	
Vanadium	0.492	0.010	mg/L	0.500	ND	98.5	75-125	1.35	20	

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B351467 - SW-846 7196A										
Blank (B351467-BLK1)	Prepared & Analyzed: 09/08/23									
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B351467-BS1)	Prepared & Analyzed: 09/08/23									
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		108	80-120			
LCS Dup (B351467-BSD1)	Prepared & Analyzed: 09/08/23									
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		106	80-120	2.33	20	
Matrix Spike (B351467-MS1)	Source: 23I0861-04 Prepared & Analyzed: 09/08/23									
Hexavalent Chromium	0.10	0.0040	mg/L	0.100	ND	101	85-115			H-09
Matrix Spike Dup (B351467-MSD1)	Source: 23I0861-04 Prepared & Analyzed: 09/08/23									
Hexavalent Chromium	0.10	0.0040	mg/L	0.100	ND	105	85-115	3.65	20	H-09
Batch B351517 - EPA 300.0										
Blank (B351517-BLK1)	Prepared & Analyzed: 10/01/23									
Fluoride	ND	0.10	mg/L							
LCS (B351517-BS1)	Prepared & Analyzed: 10/01/23									
Fluoride	1.0	0.10	mg/L	1.00		100	90-110			
LCS Dup (B351517-BSD1)	Prepared & Analyzed: 10/01/23									
Fluoride	1.0	0.10	mg/L	1.00		100	90-110	0.0699	20	
Matrix Spike (B351517-MS1)	Source: 23I0861-03 Prepared & Analyzed: 10/01/23									
Fluoride	8.9	0.50	mg/L	5.00	ND	178 *	80-120			MS-12
Matrix Spike Dup (B351517-MSD1)	Source: 23I0861-03 Prepared & Analyzed: 10/01/23									
Fluoride	9.0	0.50	mg/L	5.00	ND	179 *	80-120	0.778	20	MS-12
Batch B351526 - SM21-23 2540D										
Blank (B351526-BLK1)	Prepared & Analyzed: 09/11/23									
Total Suspended Solids	ND	5.0	mg/L							
LCS (B351526-BS1)	Prepared & Analyzed: 09/11/23									
Total Suspended Solids	221	5.0	mg/L	200		110	55.1-124			
Batch B351794 - SW-846 9010C										
Blank (B351794-BLK1)	Prepared: 09/13/23 Analyzed: 09/14/23									
Cyanide	ND	0.010	mg/L							

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B351794 - SW-846 9010C										
LCS (B351794-BS1)				Prepared: 09/13/23 Analyzed: 09/14/23						
Cyanide	0.32	0.010	mg/L	0.382		84.6	80-120			
LCS Dup (B351794-BSD1)				Prepared: 09/13/23 Analyzed: 09/14/23						
Cyanide	0.33	0.010	mg/L	0.382		86.0	80-120	1.70	20	
Matrix Spike (B351794-MS1)				Source: 23I0861-03		Prepared: 09/13/23 Analyzed: 09/14/23				
Cyanide	0.30	0.010	mg/L	0.390	ND	77.7	75-125			
Matrix Spike Dup (B351794-MSD1)				Source: 23I0861-03		Prepared: 09/13/23 Analyzed: 09/14/23				
Cyanide	0.33	0.010	mg/L	0.390	ND	84.7	75-125	8.56	20	
Batch B352663 - SM 21-23 5310B										
Blank (B352663-BLK1)				Prepared & Analyzed: 09/21/23						
Total Organic Carbon	ND	1.0	mg/L							
LCS (B352663-BS1)				Prepared & Analyzed: 09/21/23						
Total Organic Carbon	9.71	1.0	mg/L	10.0		97.1	90-110			
LCS Dup (B352663-BSD1)				Prepared & Analyzed: 09/21/23						
Total Organic Carbon	9.91	1.0	mg/L	10.0		99.1	90-110	2.00	15	
Matrix Spike (B352663-MS1)				Source: 23I0861-01		Prepared & Analyzed: 09/21/23				
Total Organic Carbon	6.58	1.0	mg/L	5.00	1.47	102	85-115			
Matrix Spike Dup (B352663-MSD1)				Source: 23I0861-01		Prepared & Analyzed: 09/26/23				
Total Organic Carbon	6.91	1.0	mg/L	5.00	1.47	109	85-115	4.95	15	
Batch B353302 - SM4500 N Org B C										
Blank (B353302-BLK1)				Prepared: 09/28/23 Analyzed: 10/01/23						
Total Kjeldahl Nitrogen	ND	1.0	mg/L							
LCS (B353302-BS1)				Prepared: 09/28/23 Analyzed: 10/01/23						
Total Kjeldahl Nitrogen	18	1.0	mg/L	20.0		89.6	84.7-115			
Duplicate (B353302-DUP1)				Source: 23I0861-03		Prepared: 09/28/23 Analyzed: 10/01/23				
Total Kjeldahl Nitrogen	3.9	1.0	mg/L		3.4			15.4	31.6	
Matrix Spike (B353302-MS1)				Source: 23I0861-03		Prepared: 09/28/23 Analyzed: 10/01/23				
Total Kjeldahl Nitrogen	23	1.0	mg/L	20.0	3.4	98.0	64.9-123			

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B353516 - EPA 300.0										
Blank (B353516-BLK1)				Prepared & Analyzed: 10/01/23						
Chloride	ND	1.0	mg/L							
Sulfate	ND	1.0	mg/L							
LCS (B353516-BS1)				Prepared & Analyzed: 10/01/23						
Chloride	10	1.0	mg/L	10.0		102	90-110			
Sulfate	10	1.0	mg/L	10.0		102	90-110			
LCS Dup (B353516-BSD1)				Prepared & Analyzed: 10/01/23						
Chloride	10	1.0	mg/L	10.0		102	90-110	0.0413	20	
Sulfate	10	1.0	mg/L	10.0		102	90-110	0.0814	20	
Matrix Spike (B353516-MS1)				Source: 23I0861-03		Prepared & Analyzed: 10/01/23				
Chloride	220	5.0	mg/L	50.0	130	197	* 80-120			MS-12
Sulfate	120	5.0	mg/L	50.0	22	195	* 80-120			MS-12
Matrix Spike Dup (B353516-MSD1)				Source: 23I0861-03		Prepared & Analyzed: 10/01/23				
Chloride	220	5.0	mg/L	50.0	130	195	* 80-120	0.260	20	MS-12
Sulfate	120	5.0	mg/L	50.0	22	195	* 80-120	0.292	20	MS-12

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B351655 - SM21-23 2540C
Blank (B351655-BLK1)

Prepared & Analyzed: 09/12/23

Total Dissolved Solids	ND	10	mg/L
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LCS (B351655-BS1)

Prepared & Analyzed: 09/12/23

Total Dissolved Solids	290	10	mg/L	293	100	67.3-113
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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-09	Sample received by laboratory with insufficient time remaining to perform analysis within the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
PR-08	pH of sample (pH 5) is outside of method specified preservation criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 300.0 in Water</i>	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
Fluoride	NY,VA,ME,NH,FL,CT
Sulfate	NC,NY,MA,VA,ME,NH,CT,RI
<i>SM 21-23 5310B in Water</i>	
Total Organic Carbon	CT,NH,NY,RI,NC,MA,VA
<i>SM19-23 4500-N Org B,C-NH3 C in Water</i>	
Total Kjeldahl Nitrogen	CT,MA,NH,NY,RI,NC,ME,VA
<i>SM21-23 2540C in Water</i>	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
<i>SM21-23 2540D in Water</i>	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
<i>SW-846 6010D in Water</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7196A in Water</i>	
Hexavalent Chromium	CT,NH,NY,NC,ME,VA
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8260D in Water</i>	
Acetone	CT,ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
Vinyl Chloride	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
<i>SW-846 8270E in Water</i>	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NC

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270E in Water</i>	
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodiphenylamine/Diphenylamine	NY
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
<i>SW-846 9014 in Water</i>	
Cyanide	NY,CT,NH,NC,ME,VA

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023



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	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Rumball
 Project Claremont POLY Chemical Site
 MCP/RCP Required N/A
 Deliverable Package Requirement N/A
 Location Old Bethpage, New York
 PWSID# (When Applicable) N/A
 Arrival Method:
 Courier ☐ Fed Ex ☒ Walk In ☐ Other ☐
 Received By / Date / Time LA 4/18/23 954
 Back-Sheet By / Date / Time LA 4/18/23 115
 Temperature Method gun #5
 Temp < 6° C Actual Temperature 0.2/2.0/3.0/3.3
 Rush Samples: Yes / ☒ No / Notify _____
 Short Hold: ☒ Yes / No / Notify _____

Notes regarding Samples/COC outside of SOP:

Missing Sample 7 Containers

Login Sample Receipt Checklist -- (Rejection Criteria Listing
 -- Using Acceptance Policy) Any False statement will be
 brought to the attention of the Client -- True or False

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☐	☒
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐
COC Included: (Check all included)		
Client ☒	Analysis ☒	Sampler Name ☒
Project ☒	IDs ☒	Collection Date/Time ☒
All Samples Proper pH: <u>N/A</u> ☐ ☐		

Additional Container Notes

**Note: West Virginia requires all samples to have their
 temperature taken. Note any outliers.**



DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample	Soils Jars				Ambers				Plastics								VOA Vials				Other / Fill in									
	(Circle Amb/Clear)	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact	
1										3		1	2		1					3					2					
2									1			2								1										
3												3	2		3	10	3	1	2						6					
4												2	2		1	4	1	4							2					
5															1					1					2					
6															1															
7																														
8																				1					2					
9																									2					
10																														
11																														
12																														
13																														
14																														
15																														
16																														
17																														
18																														
19																														
20																														

September 27, 2023

Payson Long
NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13221

Project Location: Old Bethpage, New York
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 23I0921

Enclosed are results of analyses for samples as received by the laboratory on September 8, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

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333 West Washington Street, PO Box 4873
Syracuse, NY 13221
ATTN: Payson Long

REPORT DATE: 9/27/2023

PURCHASE ORDER NUMBER: 144165

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 2310921

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Old Bethpage, New York

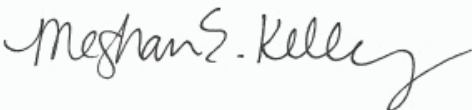
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
ASF-CP-00-090723	2310921-01	Water		Draft Method 1633	
ASF-CP-01-090723	2310921-02	Water		Draft Method 1633	
PD-CP-00-090723	2310921-03	Water		Draft Method 1633	
PD-CP-01-090723	2310921-04	Water		Draft Method 1633	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310921

Date Received: 9/8/2023

Field Sample #: ASF-CP-00-090723

Sampled: 9/7/2023 11:00

Sample ID: 2310921-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	29	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluoropentanoic acid (PFPeA)	23	1.8	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorohexanoic acid (PFHxA)	28	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluoroheptanoic acid (PFHpA)	13	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorooctanoic acid (PFOA)	41	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorononanoic acid (PFNA)	36	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorodecanoic acid (PFDA)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorobutanesulfonic acid (PFBS)	4.6	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluoropentanesulfonic acid (PFPeS)	3.2	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorohexanesulfonic acid (PFHxS)	9.5	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorooctanesulfonic acid (PFOS)	18	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
N-EtFOSAA (NEtFOSAA)	1.9	0.92	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.2	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.2	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
11Cl-PF3OUs (F53B Major)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.2	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310921

Date Received: 9/8/2023

Field Sample #: ASF-CP-00-090723

Sampled: 9/7/2023 11:00

Sample ID: 2310921-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	1		Draft Method 1633	9/25/23	9/26/23 14:52	AMS
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	75.0	10-130						9/26/23 14:52	
13C5-PFPeA	69.9	35-150						9/26/23 14:52	
13C5-PFHxA	70.8	55-150						9/26/23 14:52	
13C4-PFHpA	74.4	55-150						9/26/23 14:52	
13C8-PFOA	70.2	60-140						9/26/23 14:52	
13C9-PFNA	72.4	55-140						9/26/23 14:52	
13C6-PFDA	68.7	50-140						9/26/23 14:52	
13C7-PFUnA	62.1	30-140						9/26/23 14:52	
13C2-PFDoA	60.2	10-150						9/26/23 14:52	
13C2-PFTeDA	58.9	10-130						9/26/23 14:52	
13C3-PFBS	69.9	55-150						9/26/23 14:52	
13C3-PFHxS	70.7	55-150						9/26/23 14:52	
13C8-PFOS	65.0	45-140						9/26/23 14:52	
13C2-4:2FTS	79.4	60-200						9/26/23 14:52	
13C2-6:2FTS	62.5	60-200						9/26/23 14:52	
13C2-8:2FTS	55.6	50-200						9/26/23 14:52	
13C8-PFOSA	57.9	30-130						9/26/23 14:52	
D3-NMeFOSA	50.3	15-130						9/26/23 14:52	
D5-NEtFOSA	49.9	10-130						9/26/23 14:52	
D3-NMeFOSAA	58.8	45-200						9/26/23 14:52	
D5-NEtFOSAA	58.1	10-200						9/26/23 14:52	
D7-NMeFOSE	56.1	10-150						9/26/23 14:52	
D9-NEtFOSE	54.8	10-150						9/26/23 14:52	
13C3-HFPO-DA	67.7	25-160						9/26/23 14:52	

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0921

Date Received: 9/8/2023

Field Sample #: ASF-CP-00-090723

Sampled: 9/7/2023 11:00

Sample ID: 23I0921-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	9/11/23	9/11/23 14:39	is

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310921

Date Received: 9/8/2023

Field Sample #: ASF-CP-01-090723

Sampled: 9/7/2023 11:00

Sample ID: 2310921-02

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	28	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluoropentanoic acid (PFPeA)	23	1.9	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorohexanoic acid (PFHxA)	26	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluoroheptanoic acid (PFHpA)	13	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorooctanoic acid (PFOA)	41	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorononanoic acid (PFNA)	36	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorodecanoic acid (PFDA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorobutanesulfonic acid (PFBS)	4.5	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluoropentanesulfonic acid (PFPeS)	3.0	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorohexanesulfonic acid (PFHxS)	9.6	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorooctanesulfonic acid (PFOS)	17	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
N-EtFOSAA (NEtFOSAA)	1.8	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.3	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.3	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.9	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310921

Date Received: 9/8/2023

Field Sample #: ASF-CP-01-090723

Sampled: 9/7/2023 11:00

Sample ID: 2310921-02

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:08	AMS
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	78.7	10-130						9/26/23 15:08	
13C5-PFPeA	73.6	35-150						9/26/23 15:08	
13C5-PFHxA	74.1	55-150						9/26/23 15:08	
13C4-PFHpA	76.2	55-150						9/26/23 15:08	
13C8-PFOA	73.6	60-140						9/26/23 15:08	
13C9-PFNA	71.8	55-140						9/26/23 15:08	
13C6-PFDA	70.1	50-140						9/26/23 15:08	
13C7-PFUnA	61.5	30-140						9/26/23 15:08	
13C2-PFDoA	60.1	10-150						9/26/23 15:08	
13C2-PFTeDA	55.7	10-130						9/26/23 15:08	
13C3-PFBS	75.4	55-150						9/26/23 15:08	
13C3-PFHxS	73.9	55-150						9/26/23 15:08	
13C8-PFOS	70.2	45-140						9/26/23 15:08	
13C2-4:2FTS	79.8	60-200						9/26/23 15:08	
13C2-6:2FTS	61.4	60-200						9/26/23 15:08	
13C2-8:2FTS	57.0	50-200						9/26/23 15:08	
13C8-PFOSA	60.2	30-130						9/26/23 15:08	
D3-NMeFOSA	51.0	15-130						9/26/23 15:08	
D5-NEtFOSA	50.4	10-130						9/26/23 15:08	
D3-NMeFOSAA	59.0	45-200						9/26/23 15:08	
D5-NEtFOSAA	54.1	10-200						9/26/23 15:08	
D7-NMeFOSE	56.1	10-150						9/26/23 15:08	
D9-NEtFOSE	54.3	10-150						9/26/23 15:08	
13C3-HFPO-DA	72.8	25-160						9/26/23 15:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0921

Date Received: 9/8/2023

Field Sample #: ASF-CP-01-090723

Sampled: 9/7/2023 11:00

Sample ID: 23I0921-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	12	10	mg/L	1		Draft Method 1633	9/11/23	9/11/23 14:39	is

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310921

Date Received: 9/8/2023

Field Sample #: PD-CP-00-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310921-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	28	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluoropentanoic acid (PFPeA)	22	1.9	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorohexanoic acid (PFHxA)	25	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluoroheptanoic acid (PFHpA)	12	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorooctanoic acid (PFOA)	39	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorononanoic acid (PFNA)	34	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorodecanoic acid (PFDA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorobutanesulfonic acid (PFBS)	4.5	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluoropentanesulfonic acid (PFPeS)	3.1	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorohexanesulfonic acid (PFHxS)	9.1	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorooctanesulfonic acid (PFOS)	17	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
N-EtFOSAA (NEtFOSAA)	1.9	0.93	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.3	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
11Cl-PF3OUs (F53B Major)	ND	3.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.3	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310921

Date Received: 9/8/2023

Field Sample #: PD-CP-00-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310921-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:24	AMS
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	69.4	10-130						9/26/23 15:24	
13C5-PFPeA	73.8	35-150						9/26/23 15:24	
13C5-PFHxA	75.3	55-150						9/26/23 15:24	
13C4-PFHpA	79.6	55-150						9/26/23 15:24	
13C8-PFOA	75.3	60-140						9/26/23 15:24	
13C9-PFNA	74.0	55-140						9/26/23 15:24	
13C6-PFDA	74.7	50-140						9/26/23 15:24	
13C7-PFUnA	69.8	30-140						9/26/23 15:24	
13C2-PFDoA	70.3	10-150						9/26/23 15:24	
13C2-PFTeDA	66.2	10-130						9/26/23 15:24	
13C3-PFBS	73.5	55-150						9/26/23 15:24	
13C3-PFHxS	74.1	55-150						9/26/23 15:24	
13C8-PFOS	71.7	45-140						9/26/23 15:24	
13C2-4:2FTS	88.3	60-200						9/26/23 15:24	
13C2-6:2FTS	71.4	60-200						9/26/23 15:24	
13C2-8:2FTS	58.9	50-200						9/26/23 15:24	
13C8-PFOSA	66.2	30-130						9/26/23 15:24	
D3-NMeFOSA	54.8	15-130						9/26/23 15:24	
D5-NEtFOSA	54.0	10-130						9/26/23 15:24	
D3-NMeFOSAA	64.5	45-200						9/26/23 15:24	
D5-NEtFOSAA	65.5	10-200						9/26/23 15:24	
D7-NMeFOSE	60.1	10-150						9/26/23 15:24	
D9-NEtFOSE	61.5	10-150						9/26/23 15:24	
13C3-HFPO-DA	68.4	25-160						9/26/23 15:24	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0921

Date Received: 9/8/2023

Field Sample #: PD-CP-00-090723

Sampled: 9/7/2023 11:30

Sample ID: 23I0921-03

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	9/12/23	9/12/23 13:59	LL

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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310921

Date Received: 9/8/2023

Field Sample #: PD-CP-01-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310921-04

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	30	3.5	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluoropentanoic acid (PFPeA)	24	1.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorohexanoic acid (PFHxA)	26	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluoroheptanoic acid (PFHpA)	13	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorooctanoic acid (PFOA)	41	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorononanoic acid (PFNA)	35	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorodecanoic acid (PFDA)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorobutanesulfonic acid (PFBS)	4.6	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluoropentanesulfonic acid (PFPeS)	3.2	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorohexanesulfonic acid (PFHxS)	9.6	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorooctanesulfonic acid (PFOS)	17	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.5	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.5	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.5	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
N-EtFOSAA (NEtFOSAA)	1.6	0.87	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	8.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	8.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.5	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.5	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.5	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
11Cl-PF3OUs (F53B Major)	ND	3.5	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	44	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	44	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 2310921

Date Received: 9/8/2023

Field Sample #: PD-CP-01-090723

Sampled: 9/7/2023 11:30

Sample ID: 2310921-04

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7	ng/L	1		Draft Method 1633	9/25/23	9/26/23 15:39	AMS
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	58.1	10-130						9/26/23 15:39	
13C5-PFPeA	71.9	35-150						9/26/23 15:39	
13C5-PFHxA	74.8	55-150						9/26/23 15:39	
13C4-PFHpA	76.5	55-150						9/26/23 15:39	
13C8-PFOA	74.8	60-140						9/26/23 15:39	
13C9-PFNA	73.7	55-140						9/26/23 15:39	
13C6-PFDA	71.5	50-140						9/26/23 15:39	
13C7-PFUnA	65.8	30-140						9/26/23 15:39	
13C2-PFDoA	69.7	10-150						9/26/23 15:39	
13C2-PFTeDA	66.8	10-130						9/26/23 15:39	
13C3-PFBS	74.5	55-150						9/26/23 15:39	
13C3-PFHxS	75.2	55-150						9/26/23 15:39	
13C8-PFOS	72.8	45-140						9/26/23 15:39	
13C2-4:2FTS	89.0	60-200						9/26/23 15:39	
13C2-6:2FTS	72.1	60-200						9/26/23 15:39	
13C2-8:2FTS	61.4	50-200						9/26/23 15:39	
13C8-PFOSA	68.3	30-130						9/26/23 15:39	
D3-NMeFOSA	54.5	15-130						9/26/23 15:39	
D5-NEtFOSA	56.0	10-130						9/26/23 15:39	
D3-NMeFOSAA	67.6	45-200						9/26/23 15:39	
D5-NEtFOSAA	67.5	10-200						9/26/23 15:39	
D7-NMeFOSE	60.3	10-150						9/26/23 15:39	
D9-NEtFOSE	62.9	10-150						9/26/23 15:39	
13C3-HFPO-DA	66.8	25-160						9/26/23 15:39	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 23I0921

Date Received: 9/8/2023

Field Sample #: PD-CP-01-090723

Sampled: 9/7/2023 11:30

Sample ID: 23I0921-04

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	9/11/23	9/11/23 14:39	is

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Date
23I0921-01 [ASF-CP-00-090723]	B351550	50.0	09/11/23
23I0921-02 [ASF-CP-01-090723]	B351550	50.0	09/11/23
23I0921-04 [PD-CP-01-090723]	B351550	50.0	09/11/23

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23I0921-03 [PD-CP-00-090723]	B351656	50.0	09/12/23

Prep Method:Draft Method 1633**Analytical Method:Draft Method 1633****Leachates were extracted on 9/11/2023 per NO PREP in Batch B351550**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23I0921-01 [ASF-CP-00-090723]	B352019	543	5.00	09/25/23
23I0921-02 [ASF-CP-01-090723]	B352019	538	5.00	09/25/23
23I0921-03 [PD-CP-00-090723]	B352019	539	5.00	09/25/23
23I0921-04 [PD-CP-01-090723]	B352019	573	5.00	09/25/23

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352019 - Draft Method 1633										
Blank (B352019-BLK1)				Prepared: 09/25/23 Analyzed: 09/26/23						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.98	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.98	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.98	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.98	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.98	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.98	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L							
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.98	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.98	ng/L							
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.8	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	82.5		ng/L	98.2		84.0	10-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B352019 - Draft Method 1633
Blank (B352019-BLK1)

Prepared: 09/25/23 Analyzed: 09/26/23

Surrogate: 13C5-PFPeA	40.6		ng/L	49.1		82.7	35-150			
Surrogate: 13C5-PFHxA	20.7		ng/L	24.6		84.2	55-150			
Surrogate: 13C4-PFHpA	20.9		ng/L	24.6		85.0	55-150			
Surrogate: 13C8-PFOA	20.3		ng/L	24.6		82.6	60-140			
Surrogate: 13C9-PFNA	10.2		ng/L	12.3		83.4	55-140			
Surrogate: 13C6-PFDA	9.54		ng/L	12.3		77.7	50-140			
Surrogate: 13C7-PFUnA	8.90		ng/L	12.3		72.5	30-140			
Surrogate: 13C2-PFDoA	9.59		ng/L	12.3		78.1	10-150			
Surrogate: 13C2-PFTeDA	9.62		ng/L	12.3		78.3	10-130			
Surrogate: 13C3-PFBS	19.8		ng/L	24.6		80.6	55-150			
Surrogate: 13C3-PFHxS	20.5		ng/L	24.6		83.4	55-150			
Surrogate: 13C8-PFOS	19.7		ng/L	24.6		80.4	45-140			
Surrogate: 13C2-4:2FTS	33.9		ng/L	49.1		68.9	60-200			
Surrogate: 13C2-6:2FTS	38.7		ng/L	49.1		78.8	60-200			
Surrogate: 13C2-8:2FTS	44.5		ng/L	49.1		90.6	50-200			
Surrogate: 13C8-PFOA	18.8		ng/L	24.6		76.7	30-130			
Surrogate: D3-NMeFOSA	14.3		ng/L	24.6		58.4	15-130			
Surrogate: D5-NEtFOSA	14.9		ng/L	24.6		60.6	10-130			
Surrogate: D3-NMeFOSAA	37.6		ng/L	49.1		76.5	45-200			
Surrogate: D5-NEtFOSAA	39.2		ng/L	49.1		79.9	10-200			
Surrogate: D7-NMeFOSE	181		ng/L	246		73.8	10-150			
Surrogate: D9-NEtFOSE	184		ng/L	246		74.7	10-150			
Surrogate: 13C3-HFPO-DA	82.7		ng/L	98.2		84.2	25-160			

LCS (B352019-BS1)

Prepared: 09/25/23 Analyzed: 09/26/23

Perfluorobutanoic acid (PFBA)	106	4.0	ng/L	94.9		112	58-148			
Perfluoropentanoic acid (PFPeA)	52.6	2.0	ng/L	47.4		111	54-152			
Perfluorohexanoic acid (PFHxA)	26.4	0.99	ng/L	23.7		111	55-152			
Perfluoroheptanoic acid (PFHpA)	25.5	0.99	ng/L	23.7		107	54-154			
Perfluorooctanoic acid (PFOA)	26.4	0.99	ng/L	23.7		111	52-161			
Perfluorononanoic acid (PFNA)	26.7	0.99	ng/L	23.7		113	59-149			
Perfluorodecanoic acid (PFDA)	26.6	0.99	ng/L	23.7		112	52-147			
Perfluoroundecanoic acid (PFUnA)	26.6	0.99	ng/L	23.7		112	48-159			
Perfluorododecanoic acid (PFDoA)	26.6	0.99	ng/L	23.7		112	64-142			
Perfluorotridecanoic acid (PFTTrDA)	26.3	0.99	ng/L	23.7		111	49-148			
Perfluorotetradecanoic acid (PFTeDA)	26.4	0.99	ng/L	23.7		111	47-161			
Perfluorobutanesulfonic acid (PFBS)	22.6	0.99	ng/L	21.1		107	62-144			
Perfluoropentanesulfonic acid (PFPeS)	24.2	0.99	ng/L	22.3		109	59-151			
Perfluorohexanesulfonic acid (PFHxS)	23.0	0.99	ng/L	21.7		106	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	25.2	0.99	ng/L	22.6		112	55-152			
Perfluorooctanesulfonic acid (PFOS)	24.6	0.99	ng/L	22.0		112	58-149			
Perfluorononanesulfonic acid (PFNS)	25.8	0.99	ng/L	22.8		113	52-148			
Perfluorodecanesulfonic acid (PFDS)	24.5	0.99	ng/L	22.9		107	51-147			
Perfluorododecanesulfonic acid (PFDoS)	22.1	0.99	ng/L	23.0		96.2	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103	4.0	ng/L	89.0		116	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	101	4.0	ng/L	90.1		112	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	105	4.0	ng/L	91.3		115	63-152			
Perfluorooctanesulfonamide (PFOSA)	25.3	0.99	ng/L	23.7		107	61-148			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	25.5	0.99	ng/L	23.7		107	63-145			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B352019 - Draft Method 1633
LCS (B352019-BS1)

Prepared: 09/25/23 Analyzed: 09/26/23

N-ethyl perfluorooctanesulfonamide (NEtFOSA)	24.6	0.99	ng/L	23.7		104	65-139			
N-MeFOSAA (NMeFOSAA)	26.0	0.99	ng/L	23.7		110	58-144			
N-EtFOSAA (NEtFOSAA)	25.7	0.99	ng/L	23.7		108	59-146			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	255	9.9	ng/L	237		108	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	255	9.9	ng/L	237		107	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	104	4.0	ng/L	94.9		110	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	95.3	4.0	ng/L	89.5		106	68-146			
9Cl-PF3ONS (F53B Minor)	97.6	4.0	ng/L	89.0		110	56-156			
11Cl-PF3OUdS (F53B Major)	90.5	4.0	ng/L	89.5		101	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	215	9.9	ng/L	237		90.5	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1090	49	ng/L	1190		92.0	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1020	49	ng/L	1190		86.2	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	45.2	2.0	ng/L	42.2		107	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	47.1	2.0	ng/L	47.4		99.3	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	51.9	2.0	ng/L	47.4		109	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	46.9	2.0	ng/L	47.4		98.9	48-161			
Surrogate: 13C4-PFBA	81.6		ng/L	98.8		82.5	10-130			
Surrogate: 13C5-PFPeA	40.0		ng/L	49.4		80.9	35-150			
Surrogate: 13C5-PFHxA	20.5		ng/L	24.7		83.1	55-150			
Surrogate: 13C4-PFHpA	21.2		ng/L	24.7		85.6	55-150			
Surrogate: 13C8-PFOA	20.1		ng/L	24.7		81.2	60-140			
Surrogate: 13C9-PFNA	10.1		ng/L	12.4		81.9	55-140			
Surrogate: 13C6-PFDA	10.2		ng/L	12.4		82.9	50-140			
Surrogate: 13C7-PFUnA	9.40		ng/L	12.4		76.1	30-140			
Surrogate: 13C2-PFDoA	9.49		ng/L	12.4		76.8	10-150			
Surrogate: 13C2-PFTeDA	9.71		ng/L	12.4		78.6	10-130			
Surrogate: 13C3-PFBS	19.7		ng/L	24.7		79.7	55-150			
Surrogate: 13C3-PFHxS	20.6		ng/L	24.7		83.4	55-150			
Surrogate: 13C8-PFOS	19.2		ng/L	24.7		77.5	45-140			
Surrogate: 13C2-4:2FTS	34.8		ng/L	49.4		70.4	60-200			
Surrogate: 13C2-6:2FTS	36.6		ng/L	49.4		74.0	60-200			
Surrogate: 13C2-8:2FTS	38.8		ng/L	49.4		78.5	50-200			
Surrogate: 13C8-PFOSA	18.6		ng/L	24.7		75.1	30-130			
Surrogate: D3-NMeFOSA	15.5		ng/L	24.7		62.5	15-130			
Surrogate: D5-NEtFOSA	16.1		ng/L	24.7		65.1	10-130			
Surrogate: D3-NMeFOSAA	36.5		ng/L	49.4		73.8	45-200			
Surrogate: D5-NEtFOSAA	36.6		ng/L	49.4		74.0	10-200			
Surrogate: D7-NMeFOSE	185		ng/L	247		75.0	10-150			
Surrogate: D9-NEtFOSE	192		ng/L	247		77.5	10-150			
Surrogate: 13C3-HFPO-DA	78.7		ng/L	98.8		79.6	25-160			

MRL Check (B352019-MRL1)

Prepared: 09/25/23 Analyzed: 09/26/23

Perfluorobutanoic acid (PFBA)	9.53	3.9	ng/L	7.82		122	44-157			
Perfluoropentanoic acid (PFPeA)	4.40	2.0	ng/L	3.91		113	57-148			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B352019 - Draft Method 1633										
MRL Check (B352019-MRL1)										
Prepared: 09/25/23 Analyzed: 09/26/23										
Perfluorohexanoic acid (PFHxA)	2.10	0.98	ng/L	1.95		107	62-149			
Perfluoroheptanoic acid (PFHpA)	2.01	0.98	ng/L	1.95		103	56-150			
Perfluorooctanoic acid (PFOA)	1.72	0.98	ng/L	1.95		88.0	57-161			
Perfluorononanoic acid (PFNA)	2.02	0.98	ng/L	1.95		103	53-157			
Perfluorodecanoic acid (PFDA)	1.97	0.98	ng/L	1.95		101	43-158			
Perfluoroundecanoic acid (PFUnA)	1.96	0.98	ng/L	1.95		100	50-155			
Perfluorododecanoic acid (PFDoA)	2.00	0.98	ng/L	1.95		103	60-141			
Perfluorotridecanoic acid (PFTrDA)	2.03	0.98	ng/L	1.95		104	52-140			
Perfluorotetradecanoic acid (PFTeDA)	1.98	0.98	ng/L	1.95		101	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.74	0.98	ng/L	1.73		100	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.86	0.98	ng/L	1.84		101	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.70	0.98	ng/L	1.79		95.2	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.80	0.98	ng/L	1.86		96.5	51-150			
Perfluorooctanesulfonic acid (PFOS)	2.04	0.98	ng/L	1.81		113	43-162			
Perfluorononanesulfonic acid (PFNS)	2.04	0.98	ng/L	1.88		108	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.87	0.98	ng/L	1.89		99.4	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.70	0.98	ng/L	1.90		89.6	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.84	3.9	ng/L	7.33		107	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.13	3.9	ng/L	7.43		96.0	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.88	3.9	ng/L	7.52		118	46-165			
Perfluorooctanesulfonamide (PFOSA)	1.99	0.98	ng/L	1.95		102	47-163			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	1.89	0.98	ng/L	1.95		96.9	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.04	0.98	ng/L	1.95		104	49-156			
N-MeFOSAA (NMeFOSAA)	2.21	0.98	ng/L	1.95		113	32-160			
N-EtFOSAA (NEtFOSAA)	2.09	0.98	ng/L	1.95		107	51-154			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	19.7	9.8	ng/L	19.5		101	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.7	9.8	ng/L	19.5		101	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.50	3.9	ng/L	7.82		95.9	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.79	3.9	ng/L	7.38		92.1	61-148			
9Cl-PF3ONS (F53B Minor)	6.98	3.9	ng/L	7.33		95.3	44-167			
11Cl-PF3OUDS (F53B Major)	6.51	3.9	ng/L	7.38		88.3	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	17.0	9.8	ng/L	19.5		87.2	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	87.6	49	ng/L	97.7		89.6	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	83.5	49	ng/L	97.7		85.4	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	3.55	2.0	ng/L	3.48		102	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.89	2.0	ng/L	3.91		99.5	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.08	2.0	ng/L	3.91		104	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.70	2.0	ng/L	3.91		94.7	47-160			
Surrogate: 13C4-PFBA	77.1		ng/L	97.7		78.9	10-130			
Surrogate: 13C5-PFPeA	36.9		ng/L	48.9		75.6	35-150			
Surrogate: 13C5-PFHxA	18.9		ng/L	24.4		77.4	55-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B352019 - Draft Method 1633
MRL Check (B352019-MRL1)

Prepared: 09/25/23 Analyzed: 09/26/23

Surrogate: 13C4-PFHpA	19.4		ng/L	24.4		79.4	55-150			
Surrogate: 13C8-PFOA	18.8		ng/L	24.4		77.0	60-140			
Surrogate: 13C9-PFNA	9.30		ng/L	12.2		76.1	55-140			
Surrogate: 13C6-PFDA	9.60		ng/L	12.2		78.6	50-140			
Surrogate: 13C7-PFUnA	8.81		ng/L	12.2		72.1	30-140			
Surrogate: 13C2-PFDoA	9.14		ng/L	12.2		74.8	10-150			
Surrogate: 13C2-PFTeDA	9.12		ng/L	12.2		74.6	10-130			
Surrogate: 13C3-PFBS	17.9		ng/L	24.4		73.4	55-150			
Surrogate: 13C3-PFHxS	18.9		ng/L	24.4		77.4	55-150			
Surrogate: 13C8-PFOS	18.9		ng/L	24.4		77.2	45-140			
Surrogate: 13C2-4:2FTS	30.4		ng/L	48.9		62.2	60-200			
Surrogate: 13C2-6:2FTS	33.6		ng/L	48.9		68.7	60-200			
Surrogate: 13C2-8:2FTS	33.8		ng/L	48.9		69.1	50-200			
Surrogate: 13C8-PFOSA	17.5		ng/L	24.4		71.6	30-130			
Surrogate: D3-NMeFOSA	13.9		ng/L	24.4		56.8	15-130			
Surrogate: D5-NEtFOSA	14.8		ng/L	24.4		60.6	10-130			
Surrogate: D3-NMeFOSAA	35.9		ng/L	48.9		73.5	45-200			
Surrogate: D5-NEtFOSAA	35.5		ng/L	48.9		72.7	10-200			
Surrogate: D7-NMeFOSE	178		ng/L	244		73.1	10-150			
Surrogate: D9-NEtFOSE	180		ng/L	244		73.8	10-150			
Surrogate: 13C3-HFPO-DA	76.5		ng/L	97.7		78.3	25-160			

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B351550 - Draft Method 1633
Blank (B351550-BLK1)

Prepared & Analyzed: 09/11/23

Total Suspended Solids	ND	5.0	mg/L							
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LCS (B351550-BS1)

Prepared & Analyzed: 09/11/23

Total Suspended Solids	199	5.0	mg/L	200		99.5	64.1-125			
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Batch B351656 - Draft Method 1633
Blank (B351656-BLK1)

Prepared & Analyzed: 09/12/23

Total Suspended Solids	ND	5.0	mg/L							
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LCS (B351656-BS1)

Prepared & Analyzed: 09/12/23

Total Suspended Solids	172	5.0	mg/L	200		86.0	64.1-125			
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>Draft Method 1633 in Water</i>	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	NH-P,NY,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2024



Contact: Michael Griffasi
Address: 333 West Washington Street
Syracuse, New York 13221-4873
Phone: (315) 956-6100
E-mail: michael.griffasi@ramboll.com
Project: NYSDEC Claremont Polychemical Site Q3 Sys Samples
Location: Old Bethpage, New York

Sampler(s): Pawel Mecinski
Signature:

Laboratory:
Pace Analytical Services
39 Spruce St., East
Longmeadow, MA 01028
Attn: RJ McCarthy
Phone: 413-525-2332

Holding Time:
24-hr hold for Cr⁶⁺
Package Requirement:
Level 2 and Level 3
EDD Format:
EQUIS 4-file

Sample Identification			Date	Time	Sample Type (See Key)	Sample Matrix (See Key)	Number of Containers	Grab (G) or Composite (C)	Field Filtered	8520C: VOCs + TEs (7470A)	TAL Metals + Mercury (7470A)	2570D: TSS	244D: TSS	719A: hexavalent chromium	9512: TXN	9060A: TOC	900.0: Anions Cl ⁻ , SO ₄ ²⁻ , NO ₃ ⁻ , PO ₄ ³⁻ (9012B: Cyanide)	1633: PFAS	8270 SIM: 1,4-dioxane	Lab Sample ID:
Unique Field Sample ID (sys_sample_code)	Sample Location																			
1 ASF-CP-00-090723	ASF	9/7/2023	1100	N	WG	12	G	N	X	X	X					X		X		
2 ASF-CP-01-090723	ASF	9/7/2023	1100	FD	WG	7	G	N			X					X		X		
3 ASF-CP-MS-090723	ASF	9/7/2023	1100	MS	WG	2	G	N			X					X				
4 ASF-CP-MSD-090723	ASF	9/7/2023	1100	MSD	WG	2	G	N			X					X				
5 PD-CP-00-090723	PD	9/7/2023	1130	N	WG	19	G	N	X	X	X					X		X		
6 PD-CP-01-090723	PD	9/7/2023	1130	FD	WG	18	G	N	X	X						X		X		
7 PD-CP-MS-090723	PD	9/7/2023	1130	MS	WG	11	G	N	X							X		X		
8 PD-CP-MSD-090723	PD	9/7/2023	1130	MSD	WG	11	G	N	X							X		X		
9 RW3-CP-00-090723	RW3	9/7/2023	0940	N	WG	4	G	N	X	X	X					X				
10 RW3-CP-01-090723	RW3	9/7/2023	0940	FD	WG	1	G	N								X				
12 RW4-CP-00-090723	RW4	9/7/2023	0955	N	WG	4	G	N	X		X									
13 RW5-CP-00-090723	RW5	9/7/2023	1020	N	WG	4	G	N	X		X									
14 TB-090723		9/7/2023	0930	TB	WQ	2		N	X											

Special Instructions: 24-Hour HOLDING TIME FOR HEX CHROMIUM

Use the top boxes if the samples are to be shipped via courier (e.g., Fed Ex)

Relinquished by: **GES, Inc.**

Of: **GES, Inc.**

Relinquished by: **GES, Inc.**

Of: **GES, Inc.**

Courier Name: **FedEx**

Date: 9/7/23

Time: 1300

Tracking #:

Courier Name: **FedEx**

Date: 9/7/23

Time: 1300

Tracking #:

Received by: **Michael Griffasi**

Date: 9/8/23

Time: 0930

Received by: **Michael Griffasi**

Date: 9/8/23

Time: 0930

Other comments or notes regarding condition of samples as received:

[Sign Up or Log In](#)

FedEx® Tracking



DELIVERED

Friday

9/8/23 at 9:54 AM

Signed for by: C.HENRIQUEZ

[↓ Obtain proof of delivery](#)

DELIVERY STATUS

Delivered

TRACKING ID

791387211213

FROM

OLD BETHPAGE, NY US

Label Created

8/31/23 10:10 AM

WE HAVE YOUR PACKAGE

MELVILLE, NY

9/7/23 1:04 PM

IN TRANSIT

WINDSOR LOCKS, CT

9/8/23 7:37 AM

OUT FOR DELIVERY

WINDSOR LOCKS, CT

9/8/23 7:46 AM

DELIVERED

East Longmeadow, MA US

Delivered

9/8/23 at 9:54 AM

[↓ View travel history](#)

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL
Contestfab39

SUBMIT

MORE OPTIONS

[Manage Delivery](#)

	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Rumbon
 Project Claremont PolyChemical Site Q3

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location old Bethpage New York

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☐ Fed Ex ☒ Walk In ☐ Other ☐

Received By / Date / Time LA 4/8/23 854

Back-Sheet By / Date / Time LA 4/8/23 1445

Temperature Method GLN # 5

Temp ✓ < 6° C Actual Temperature 0.2/2.0/3.0/3.3

Rush Samples: Yes ☒ No ☐ Notify ☐

Short Hold: Yes ☒ No ☐ Notify ☐

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing
 – Using Acceptance Policy) Any False statement will be
 brought to the attention of the Client – True or False

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☐	☐
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☐	☒
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐
COC Included: (Check all included)		
Client ☒	Analysis ☒	Sampler Name ☐
Project ☒	IDs ☒	Collection Date/Time ☒
All Samples Proper pH: <u>N/A</u> ☐ ☐		

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.



DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample	Soils Jars				Ambers				Plastics				VOA Vials				Other / Fill in											
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact
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