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MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE ACTIVITIES (MAY 2025) CLAREMONT POLYCHEMICAL OPERABLE UNIT 5 GROUND WATER TREATMENT SYSTEM, OLD BETHPAGE, NY

**MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE
ACTIVITIES (MAY 2025)
CLAREMONT POLYCHEMICAL OPERABLE UNIT 5 GROUND
WATER TREATMENT SYSTEM, OLD BETHPAGE, NY**

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CONTENTS

1.	Operation and Maintenance Activities	4
1.1	Daily Operations Summary Reports	4
1.2	Summary of Maintenance Activities	4
1.3	Maintenance Logs	5
2.	Technical Support Activities	5
2.1	GES/Ramboll Personnel	5
2.2	NYSDEC Personnel, Sub-contractors, and Other Visitors	5
2.3	Deliveries	5
3.	Health and Safety	6
4.	Planned Activities and Schedules	6
5.	Monitoring Well Water Elevations	6
6.	Treatment System Flows	6
7.	Chemical Consumption	7
8.	Waste Disposals	7
9.	Monthly Discharge Monitoring Report	7
10.	Pending Issues and Considerations	8
11.	Plant Documents	8
12.	Monitoring Results	8
12.1	Off-site Analytical Data Results	8
12.2	Field Data	9
12.2.1	Plant Discharge pH and Temperature	9
12.2.2	Air Stripper (AS) Tower Air Monitoring	9
13.	Process Analysis and System Status	9
13.1	Extraction (RW) Processes	9
13.2	AS Process	10
13.3	PD Process	10
13.4	Other	10
14.	Grounds	11
14.1	Plant Perimeter	11
14.2	Well Field	11
14.3	Other	11

LIST OF FIGURES

1. Plant Discharge Daily Flow

LIST OF TABLES

1. Claremont Corrective Actions Summary
2. Plant Discharge Average Flow & Volume
3. Plant Daily Totalizer Readings
4. Pump System Flow Readings
5. Claremont OU5 O&M Sampling/Measurement
6. Plant Discharge Analytical Results – May 6, 2025
7. Emerging Contaminant Analytical Results – May 6, 2025
8. Effluent pH and Temperature Readings
9. Plant Discharge Monthly Average pH
10. AS Tower Air Monitoring Readings

LIST OF ATTACHMENTS

1. Monthly O&M Sampling Analytical Results – May 6, 2025

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
GAC	Granular Activated Carbon
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
TOGS	Technical and Operational Guidance Series
TSS	Total Suspended Solids
USEPA	United States Environmental Protection Agency
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 May 2025. 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, April 30, 2025, through approximately 0855 hours, June 2, 2025. 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 33 days in this reporting period during which the treatment system had no downtime in operational status. 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. The RW-3 and RW-5 recovery wells were functional and fully operational during the month of May. RW-4 experienced shut down between May 2 and May 5, 2025, possibly caused by pump thermal overload.

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 (May 25 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 May activities is further provided in the plant operator's daily logbook.

Maintenance and project activities undertaken during the May 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.
- Basin 33 was inspected.
- Basin 1 was inspected.
- The ASF pumps were lubricated, and the seals tightened.
- The OU5 comprehensive inspections were completed.
- The 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 (Brian Dunn)
- CPC 5-4 Project Support Logbook (site)
- CPC 5-8 Site Supervisor's Daily Logbook (Brian Dunn)

2. TECHNICAL SUPPORT ACTIVITIES

2.1 GES/Ramboll Personnel

- GES maintained the system throughout the period.

2.2 NYSDEC Personnel, Sub - contractors, and Other Visitors

- No visitors during the reporting period.

2.3 Deliveries

- On May 16, 2025, Pace courier delivered coolers to the site.
- On May 30, 2025, Pace courier delivered coolers and supplies for the monthly OU-5 system sampling and quarterly groundwater sampling. UPS delivered Geotech pump for the groundwater 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).
- The electric was cut off to OU-4 plant and the pad mounted transformer has been removed by the utility company.
- 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:

- Close and exercise all globe valves at the non-operational recovery wells.
- Plan for replacement of non-functional plant process room lighting (with LED lighting).
- Plan for replacement of non-functional emergency heaters in the process room.
- Evaluate HVAC system upgrades for adequate heat production.
- Plan to evaluate replacement of electric motor controls at all recovery pumps.
- Plan to evaluate the fire control system due to system issues.

5. MONITORING WELL WATER ELEVATIONS

The monitoring well system's groundwater elevation data table was updated after the February 2025 quarterly GW elevation recording task. This database is available for review. The next set of synoptic water level measurements will be conducted by Ramboll in early June 2025.

6. TREATMENT SYSTEM FLOWS

During the May 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.

During the month of May 2025, recovery wells RW-3 and RW-5 operated normally. RW-4 experienced a possible thermal pump motor overload and was offline between May 2 and May 5, 2025.

Both RW-1 and RW-2 recovery pumps are currently inoperable as both motor control starters from these pumps were installed at RW-5, RW-3, respectively, as a temporary repair measure.

During the month of May, the plant discharge was directed primarily to Recharge Basin 33. The discharge flow was redirected to Recharge Basin 1 between May 6 through 7, 2025, and between May 30 through June 3, 2025 to alleviate high water level in Recharge Basin 33.

The total volume of treated water discharged from ~0800 hours April 30, 2025 to ~0855 hours June 2, 2025 was approximately 33,654,000 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 May 2025 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 May of 2025.

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 May of 2025.

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 May of 2025.

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. The waste container was last emptied in February 2025.

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 May 6, 2025 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

Ramboll is currently planning demolition of the OU4 building, which is tentatively scheduled for 2025.

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.

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 electric feed to the building has been disconnected by PSEGLI.
- The fire alarm panels are off-line.
- The fire sprinkler system is currently off-line. The water has been drained from the system. Although BK Fire Suppression Systems LLC installed a central monitoring and an alarm system on the sprinkler system at OU4 in the past, the system is not operational.
- 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 selecting a contractor for this work which is tentatively scheduled for 2025.

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 May 2025 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 May sampling activities included:

- The May PD data was processed and submitted.
- Monthly system sampling was completed on May 6, 2025.
- Passive diffusive bags were pulled from select wells and sampled on May 21, 2025 to accommodate end of the month sampling activities conducted by Town of Oyster Bay's environmental consultant, D&B Engineers and Architects.

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 May 2025 can be found in **Table 8** following the text of this report.

The May 2025 average pH measurement was 7.02 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 May 2025 readings from the AS tower are provided in **Table 10**.

Other routine data collected in May 2025 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 in April 2025.
- The recovery well pump system is remotely controlled and monitored, it operates in the auto mode.
- RW-4 pump experienced electrical issues and shut down on May 21, 2024. It has been subsequently placed back online and has been operating normally.
- 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 2023 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 meter housing. 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 five minutes to rotate the motors. The RW-1 pump was tested operational last as of June 2024. The motor controls (motor starter with relay overload) were taken from RW-1 and installed at RW-5 on June 18, 2024 due to these parts being obsolete. RW-1 will remain offline and inoperative until suitable replacement can be obtained.
- RW-2 pump was last tested operational in November 2024. The motor starter and relay overload were removed on November 18, 2024 and installed at RW-3. RW-2 will remain offline and inoperative until suitable replacement parts can be obtained.

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.
- Two floats in the ASF wet vault were replaced on November 1, 2024.

13.3 PD Process

- The plant discharge flow is directed intermittently to Recharge Basin 1 and Recharge Basin 33 based on RB33 liquid level.
- Pump PF-1 was historically taken out of service due to excessive noise and vibration. A full evaluation is required.
- Pump PF-2 and PF-3 remain fully functional.
- The motors and seals were lubricated as necessary.
- The discharge valve for PFF P-3 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.
- Potential issues with the smoke detectors and fire alarm pull boxes in OU5 was discovered during system troubleshooting on February 19, 2025. Further testing of the smoke detectors and fire alarm pull boxes will be required.

14. GROUNDS

14.1 Plant Perimeter

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

14.2 Well Field

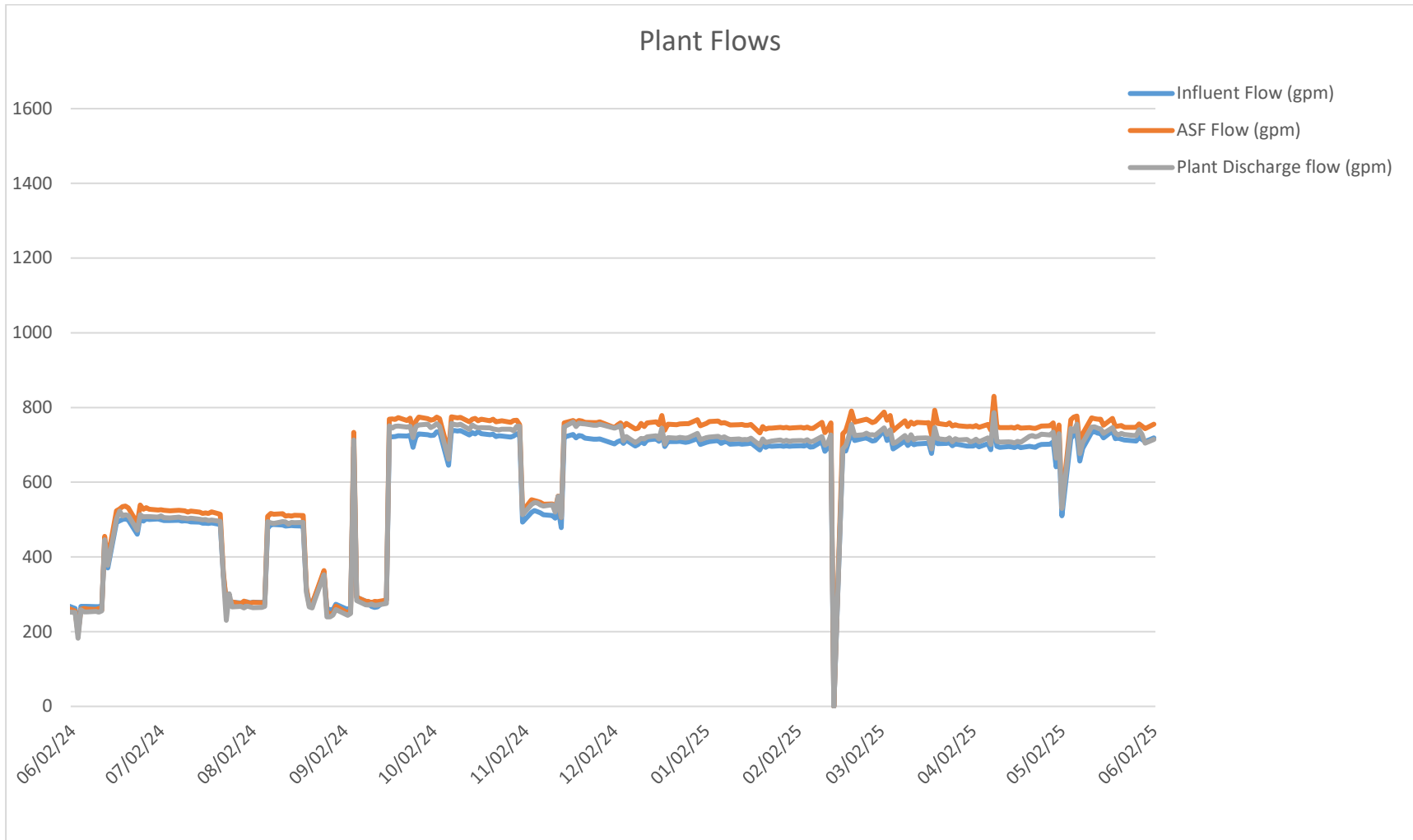
- Well field, and recharge basin inspections continue. Quarterly groundskeeping activities are performed to clear vegetation and poison ivy from around all well fields in anticipation of quarterly groundwater sampling events. In addition, the entrance to Recharge Basin 33 is maintained for ease of access.

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
<p>The RW Discharge Manifold integrity is suspect</p>	<p>The condition of the various devices on the RW discharge manifold are suspect.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Two isolation valves were closed between RW-1 and RW-3. These valves seemed to hold.</p> <p>Perform a reassessment of the RW Discharge Manifold infrastructure relative to condition of key components.</p>	<p>Plant staff and outside contractors</p>	<p>Possible shutdown</p>	<p>May require a Confined Space Entry (CSE)</p>

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
AS Tower main drain valve is not controlled	<p>The valve does not respond to manipulation of its actuator.</p> <p>This valve should be replaced.</p> <p>No further action is planned at this time.</p>	Operator	Plant will need to be shut down to change out the valve	None
<p>OU4 fire alarm system is not functioning</p> <p>Central monitoring of the fire alarm system or fire suppression system does not exist</p> <p>OU4 electrical system has been unstable</p>	<p>The Nassau County Fire Code indicates that the sprinkler system must have central monitoring for flow and valve tampering.</p> <p>The fire alarm system needs to be replaced and centrally monitored.</p> <p>Several contractors have been at the site to propose options for the system.</p> <p>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.</p> <p>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.</p> <p>OU4 is currently being planned for demolition.</p>	Plant operator, Electrical Engineer (EE) and outside vender	None at this time	Fire code violations. High altitude tasks, safety code violations
The float controls for the PFF pump system have intermittently shorted out causing the system to not properly control the pumping operation	<p>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.</p> <p>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.</p>	Plant operator and GES resources	Plant shut down is required	Possible Confined Space Entry work

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	<p>The output from the W-2 relay was moved to the output for the W-1 relay. This has stopped the short cycling.</p> <p>The control wiring should be changed and moved above grade. Currently the second splices to the floats are above ground outside the vault.</p>			
<p>PFF Pump Reliability</p>	<p>Pump PFF P1 was removed from service on February 24, 2020. Remaining pumps PFF P2 and PFF P3 are aging and rusted, preventing any significant maintenance if problems arise.</p> <p>It is recommended that replacement pumps be specified and PFF P1 be replaced in the event that PFF P2 or PFF P3 fail.</p>	<p>Ramboll Engineers (design), Outside contractors (installation)</p>	<p>Less water being treated if another PFF pump fails.</p>	<p>To be determined</p>
<p>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</p>	<p>There is no available literature regarding the check valves, so the exact description of their functioning parts is to be determined.</p> <p>A softer start/stop control may fix this issue.</p> <p>This will need further investigation. Soft-start equipment and variable frequency controls were discussed.</p>	<p>Plant operator and EE support</p>	<p>If replacement or repairs are necessary, a plant shutdown will be required as the units cannot be isolated</p>	<p>To be determined</p>
<p>The flowmeters for system flow, ASF flow and plant discharge are out of sync with the flow meters on the recovery wells</p>	<p>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.</p> <p>The while the flow meters for the system show differences between recorded flows, they are not significant enough to warrant action at this</p>	<p>EE support</p>	<p>To be determined</p>	<p>none</p>

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	time.			
EF-4 is not operable	The fan is controlled through the mezzanine thermostat, but is non-functional. 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
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
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 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.	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
	Perform a reassessment of the RW Discharge Manifold infrastructure relative to condition of key components.			
Plant Electric Heater and HVAC system performance	The HVAC system struggles to provide sufficient heat in the process room in very cold temperatures and the hanging heaters in the process room are not functional. Coordinate upgrades to HVAC and replacement of emergency heaters.	EE support and 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. A Town of Oyster Bay contractor completed plant and surrounding area testing for methane gas on March 25, 2024.
- 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 appears to have failed/burnt out. The second bank of lights

Equipment	Fault	Status
		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
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
Q4 2023	572	818,838	75,728,000	1,733	129,307
Q1 2024	642	915,413	79,922,000	1,336	123,944
Q2 2024	498	656,134	62,091,000	8,998*	126,218
Q3 2024	440	633,318	57,658,000	35	132,445
Q4 2024	709	977,100	88,790,000	5,457	125,646
Q1 2025	717	986,016	90,043,000	5,346	125,640
April 2025	716	1,028,276	29,820,000	0	41,620
May 2025	707	1,019,818	33,654,000	0	47,575

Acronyms: gal – gallons gpm – gallons per minute,

* Planned system shut down to conduct system re-piping and install of GAC vessel bypass lines.

**Table 3
Plant Daily Totalizer Readings**

May 2025 Flows						
Plant Influent			Plant Discharge		RW Discharge	
Date	Volume	Avg. Flow	Volume	Avg. Flow	Volume	Avg. Flow
04/30/25	-	759	-	734	-	708
05/01/25	985,000	684	957,000	665	923,000	641
05/02/25	1,085,000	753	1,051,000	730	1,015,000	705
05/05/25	2,336,000	541	2,290,000	530	2,205,000	510
05/06/25	1,105,000	767	1,071,000	744	1,034,000	718
05/07/25	1,115,000	774	1,060,000	736	1,045,000	726
05/08/25	1,119,000	777	1,088,000	756	1,046,000	726
05/09/25	1,007,000	699	974,000	676	946,000	657
05/12/25	3,153,000	730	3,049,000	706	2,983,000	691
05/13/25	1,112,000	772	1,077,000	748	1,056,000	733
05/14/25	1,109,000	770	1,078,000	749	1,059,000	735
05/15/25	1,107,000	769	1,073,000	745	1,053,000	731
05/16/25	1,107,000	769	1,069,000	742	1,052,000	731
05/19/25	3,252,000	753	3,156,000	731	3,105,000	719
05/20/25	1,110,000	771	1,075,000	747	1,061,000	737
05/21/25	1,079,000	749	1,053,000	731	1,032,000	717
05/22/25	1,081,000	751	1,046,000	726	1,034,000	718
05/23/25	1,083,000	752	1,052,000	731	1,030,000	715
05/27/25	4,303,000	747	4,193,000	728	4,106,000	713
05/28/25	1,076,000	747	1,043,000	724	1,023,000	710
05/29/25	1,089,000	756	1,066,000	740	1,037,000	720
05/30/25	1,081,000	751	1,049,000	728	1,029,000	715
06/02/25	3,253,000	744	3,084,000	705	3,100,000	709
May Total Plant Influent (Gal)			34,747,000			
May Total Plant Effluent (Gal)			33,654,000			
May Total RW Discharge (Gal)			32,974,000			

Acronyms: gal - gallons gpm – gallons per minute

Table 4
Pump System Flow Readings

May 2025	On-Time Minutes (actual)	Avg. Flow (gpm)	Avg. Flow (gpd)	Total Flow (gal)
RW-1*	0	NR	0	0
RW-2*	0	NR	0	0
RW-3	47,575	245	353,788	11,675,000
RW-4	43,255	249	326,182	10,764,000
RW-5	47,575	236	340,909	11,250,000
RW Totals	47,575	693	999,212	32,974,000
Plant Influent	47,575	730	1,052,939	34,747,000
Plant Effluent	47,575	707	1,019,818	33,654,000

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

The treatment process was online 33 days in May 2025 with 0 minutes of downtime.

RW-4 experienced 3 days of down time between May 2 and May 5, 2025 due to a possible pump motor thermal overload.

* Offline aside from monthly process equipment test to check their functionality. There are no average gallons per day. Currently, both RW-1 and RW-2 remain offline without working electric motor controls to activate pumps.

**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)	Bi-Monthly	Bi-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
May 6, 2025

Parameters	Discharge Limitations (SPDES)	Units	Results
<i>pH (range)</i>	6.5 – 8.5	<i>su</i>	7.02
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	NS
Arsenic, Total recoverable	50	ug/l	NS
Barium, Total recoverable	2000	ug/l	NS
Chromium, Hexavalent	100	ug/l	NS
Lead, Total recoverable	50	ug/l	NS
Iron, Total recoverable	600	ug/l	NS
Manganese, Total recoverable	600	ug/l	NS
Mercury	Not indicated	ug/l	NS
Zinc	Not indicated	mg/l	NS
Nitrogen, Total (as N)	10	mg/l	NS
Selenium, Total recoverable	40	ug/l	NS
Solids, Total Dissolved	1000	mg/l	NS
Chloride Ion	NL	mg/l	NS
Cyanide	Not indicated	ug/l	NS
Fluoride Ion	NL	mg/l	NS

Parameters	Discharge Limitations (SPDES)	Units	Results
Sulfate Ion	NL	mg/l	NS
<p>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.</p>			

**Table 7
Emerging Contaminant Analytical Results
May 6, 2025**

Parameters	Guidance Values	Units	Influent Results	Effluent Results
PFOA	6.7 ¹	ng/l	44	44
PFOS	2.7 ¹	ng/l	14	14
1,4-Dioxane	0.35 ¹	ug/l	18	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 **PFOA** - Perfluorooctanoic acid **PFOS** - Perfluorooctanesulfonic acid

¹ NYSDEC - 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) NO. 1.1.1.

Table 8
Effluent pH and Temperature Readings

Date	pH (su)	Temp (° C)
05/01/25	7.07	15.5
05/07/25	7.08	16.0
05/14/25	7.10	16.2
05/21/25	7.06	16.2
05/27/25	6.79	18.0
May Average	7.02 su	16.4 °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
Oct `23	7.22
Nov `23	6.99
Dec `23	6.94
Jan `24	6.81
Feb `24	6.94
Mar `24	7.00
Apr `24	7.23
May `24	7.20
Jun `24	7.28
July `24	7.21
Aug `24	7.11
Sep `24	7.21
Oct `24	7.06
Nov `24	7.01
Dec `24	7.09
Jan `25	7.19
Feb `25	7.06
Mar `25	7.21
Apr `25	7.16
May `25	7.02

Plant Discharge Monthly Average pH Reading

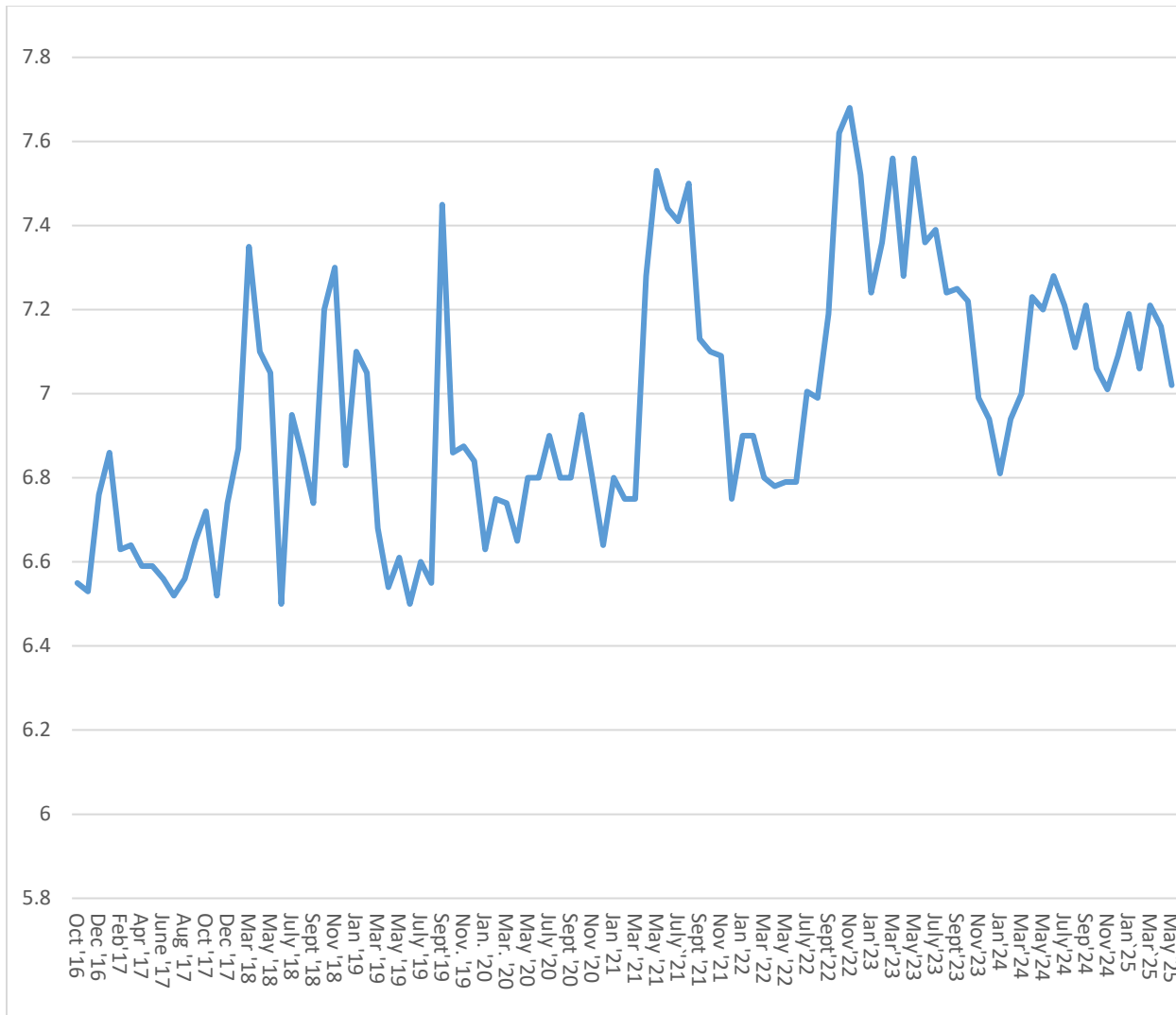


Table 10
AS Tower Air Monitoring Readings

Recorded Date	Port B (ppm)
05/01/25	0.1
05/08/25	0.1
05/14/25	0.1
05/22/25	0.1
05/27/25	0.6

ATTACHMENT 1
MONTHLY O&M SAMPLING ANALYTICAL RESULTS –MAY 6, 2025

May 15, 2025

Payson Long
NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13202

Project Location: Old Bethpage, New York
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 25E0484

Enclosed are results of analyses for samples as received by the laboratory on May 7, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	7
25E0484-01	7
25E0484-02	15
25E0484-03	23
25E0484-04	26
25E0484-05	29
Sample Preparation Information	32
QC Data	33
Volatile Organic Compounds by GC/MS	33
B404664	33
B404664	40
Semivolatile Organic Compounds by GC/MS	41
B404578	41
1,4-Dioxane by isotope dilution GC/MS	46
B404595	46
Semivolatile Organic Compounds by - LC/MS-MS	47
B404887	47
Flag/Qualifier Summary	52
Certifications	53
Chain of Custody/Sample Receipt	57



Pace Analytical Services, LLC - East Longmeadow, Ma

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 13202
ATTN: Payson Long

REPORT DATE: 5/15/2025

PURCHASE ORDER NUMBER: 151811

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25E0484

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: Old Bethpage, New York

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PD-CP-00-050625	25E0484-01	Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
PD-CP-01-050625	25E0484-02	Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
ASF-CP-00-050625	25E0484-03	Water		Draft Method 1633 SW-846 8270E	
ASF-CP-01-050625	25E0484-04	Water		Draft Method 1633 SW-846 8270E	
TB-050625	25E0484-05	Water		SW-846 8260D	



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Draft Method 1633

Qualifications:

L-03

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

Analyte & Samples(s) Qualified:

3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTC)^A

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], 25E0484-03[ASF-CP-00-050625], 25E0484-04[ASF-CP-01-050625], B404887-BLK1, B404887-BS1, B404887-MRL1

SW-846 8260D

Qualifications:

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:

Bromomethane

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], 25E0484-05[TB-050625], B404664-BLK1, B404664-BS1, B404664-BSD1, B404664-MS1, B404664-MSD1, S121235-CCV1

Chloroethane

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], 25E0484-05[TB-050625], B404664-BLK1, B404664-BS1, B404664-BSD1, B404664-MS1, B404664-MSD1, S121235-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:

1,2-Dichloroethane

B404664-BS1, B404664-BSD1, B404664-MS1, B404664-MSD1, S121235-CCV1

Methyl Acetate

B404664-BS1, B404664-BSD1, B404664-MS1, B404664-MSD1, S121235-CCV1

trans-1,3-Dichloropropene

B404664-BS1, B404664-BSD1, B404664-MS1, B404664-MSD1, S121235-CCV1

SW-846 8270E

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

1,4-Dioxane

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], 25E0484-03[ASF-CP-00-050625], 25E0484-04[ASF-CP-01-050625], B404595-BLK1, B404595-BS1, B404595-BSD1

B-07

Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

1,4-Dioxane

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], 25E0484-03[ASF-CP-00-050625], 25E0484-04[ASF-CP-01-050625]

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:

Caprolactam

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], B404578-BLK1, B404578-BS1, B404578-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:

Hexachlorocyclopentadiene

B404578-BSD1

Hexachloroethane

B404578-BSD1

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

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:

Benzo(k)fluoranthene

B404578-BS1, B404578-BSD1

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

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], B404578-BLK1, B404578-BS1, B404578-BSD1, S121203-CCV1

Di-n-octylphthalate

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], B404578-BLK1, B404578-BS1, B404578-BSD1, S121203-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:

2,2'-oxybis(1-Chloropropane)

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], B404578-BLK1, B404578-BS1, B404578-BSD1, S121203-CCV1

Aniline

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], B404578-BLK1, B404578-BS1, B404578-BSD1, S121203-CCV1

Bis(2-Ethylhexyl)phthalate

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], B404578-BLK1, B404578-BS1, B404578-BSD1, S121203-CCV1

Caprolactam

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], B404578-BLK1, B404578-BS1, B404578-BSD1, S121203-CCV2

N-Nitrosodi-n-propylamine

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], B404578-BLK1, B404578-BS1, B404578-BSD1, S121203-CCV1

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

25E0484-01[PD-CP-00-050625], 25E0484-02[PD-CP-01-050625], B404578-BLK1, B404578-BS1, B404578-BSD1, S117929-ICV1, S121203-CCV1

The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, 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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-00-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/8/25	5/8/25 22:51	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Chloroethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-00-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:51	MFF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		110	70-130					5/8/25 22:51	
Toluene-d8		93.8	70-130					5/8/25 22:51	
4-Bromofluorobenzene		96.5	70-130					5/8/25 22:51	



Pace Analytical Services, LLC - East Longmeadow, Ma

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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-00-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-01

Sample Matrix: Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	5/8/25	5/8/25 22:51	MF

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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-00-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Atrazine	ND	18	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Benzaldehyde	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Caprolactam	ND	9.0	µg/L	1	V-05, L-04	SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Acenaphthene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Acenaphthylene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Acetophenone	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Aniline	ND	18	µg/L	1	V-05, V-34	SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Anthracene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Benzo(a)anthracene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Benzo(a)pyrene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Benzo(b)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Benzo(g,h,i)perylene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Benzo(k)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Bis(2-chloroethoxy)methane	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Bis(2-chloroethyl)ether	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.0	µg/L	1	V-05	SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.0	µg/L	1	V-05	SW-846 8270E	5/7/25	5/8/25 14:41	BGL
4-Bromophenylphenylether	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Butylbenzylphthalate	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Carbazole	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
4-Chloroaniline	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
4-Chloro-3-methylphenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2-Chloronaphthalene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2-Chlorophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
4-Chlorophenylphenylether	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Chrysene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Dibenz(a,h)anthracene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Di-n-butylphthalate	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
3,3-Dichlorobenzidine	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2,4-Dichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Diethylphthalate	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2,4-Dimethylphenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Dimethylphthalate	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2,4-Dinitrophenol	ND	18	µg/L	1	V-04	SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2,4-Dinitrotoluene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2,6-Dinitrotoluene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Di-n-octylphthalate	ND	9.0	µg/L	1	V-04	SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Fluorene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Hexachlorobenzene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL

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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-00-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Hexachlorocyclopentadiene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Hexachloroethane	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Isophorone	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
1-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2-Methylphenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
3/4-Methylphenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Naphthalene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
3-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
4-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Nitrobenzene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2-Nitrophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
4-Nitrophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
N-Nitrosodi-n-propylamine	ND	9.0	µg/L	1	V-05	SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Pentachlorophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Phenanthrene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Phenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Pyrene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
Pyridine	ND	18	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2,4,5-Trichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL
2,4,6-Trichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 14:41	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	27.9	15-110	
Phenol-d6	21.5	15-110	
Nitrobenzene-d5	65.6	30-130	
2-Fluorobiphenyl	65.6	30-130	
2,4,6-Tribromophenol	50.3	15-110	
p-Terphenyl-d14	85.0	30-130	



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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-00-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-01

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	19	0.19	µg/L	1	B-07, B	SW-846 8270E	5/7/25	5/9/25 23:45	GJB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,4-Dioxane-d8	26.9	15-110						5/9/25 23:45	

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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-00-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-01

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	6.3	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluoropentanoic acid (PFPeA)	18	3.1	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorohexanoic acid (PFHxA)	21	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluoroheptanoic acid (PFHpA)	10	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorooctanoic acid (PFOA)	42	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorononanoic acid (PFNA)	27	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorobutanesulfonic acid (PFBS)	3.1	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluoropentanesulfonic acid (PFPeS)	2.1	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorohexanesulfonic acid (PFHxS)	7.4	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorooctanesulfonic acid (PFOS)	14	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
N-EtFOSAA (NEtFOSAA)	1.9	1.6	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	7.9	ng/L	1	L-03	Draft Method 1633	5/12/25	5/13/25 22:52	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	39	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	39	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML

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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-00-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-01

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	3.1	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L	1		Draft Method 1633	5/12/25	5/13/25 22:52	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
13C4-PFBA	97.0		5-130				5/13/25 22:52		
13C5-PFPeA	95.8		40-130				5/13/25 22:52		
13C5-PFHxA	103		40-130				5/13/25 22:52		
13C4-PFHpA	102		40-130				5/13/25 22:52		
13C8-PFOA	100		40-130				5/13/25 22:52		
13C9-PFNA	96.0		40-130				5/13/25 22:52		
13C6-PFDA	90.7		40-130				5/13/25 22:52		
13C7-PFUnA	85.8		30-130				5/13/25 22:52		
13C2-PFDoA	74.7		10-130				5/13/25 22:52		
13C2-PFTeDA	73.8		10-130				5/13/25 22:52		
13C3-PFBS	102		40-135				5/13/25 22:52		
13C3-PFHxS	96.6		40-130				5/13/25 22:52		
13C8-PFOS	89.2		40-130				5/13/25 22:52		
13C2-4:2FTS	159		40-200				5/13/25 22:52		
13C2-6:2FTS	106		40-200				5/13/25 22:52		
13C2-8:2FTS	81.9		40-300				5/13/25 22:52		
13C8-PFOSA	88.8		40-130				5/13/25 22:52		
D3-NMeFOSA	77.7		10-130				5/13/25 22:52		
D5-NEtFOSA	77.4		10-130				5/13/25 22:52		
D3-NMeFOSAA	90.7		40-170				5/13/25 22:52		
D5-NEtFOSAA	81.7		25-135				5/13/25 22:52		
D7-NMeFOSE	79.4		10-130				5/13/25 22:52		
D9-NEtFOSE	75.8		10-130				5/13/25 22:52		
13C3-HFPO-DA	106		40-130				5/13/25 22:52		

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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-01-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/8/25	5/8/25 23:18	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Chloroethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-01-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 23:18	MFF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		114	70-130					5/8/25 23:18	
Toluene-d8		95.2	70-130					5/8/25 23:18	
4-Bromofluorobenzene		93.0	70-130					5/8/25 23:18	



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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-01-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-02

Sample Matrix: Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	5/8/25	5/8/25 23:18	MF

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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-01-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-02

Sample Matrix: Water

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Atrazine	ND	18	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Benzaldehyde	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Caprolactam	ND	9.0	µg/L	1	V-05, L-04	SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Acenaphthene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Acenaphthylene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Acetophenone	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Aniline	ND	18	µg/L	1	V-05, V-34	SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Anthracene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Benzo(a)anthracene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Benzo(a)pyrene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Benzo(b)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Benzo(g,h,i)perylene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Benzo(k)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Bis(2-chloroethoxy)methane	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Bis(2-chloroethyl)ether	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.0	µg/L	1	V-05	SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.0	µg/L	1	V-05	SW-846 8270E	5/7/25	5/8/25 15:02	BGL
4-Bromophenylphenylether	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Butylbenzylphthalate	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Carbazole	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
4-Chloroaniline	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
4-Chloro-3-methylphenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2-Chloronaphthalene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2-Chlorophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
4-Chlorophenylphenylether	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Chrysene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Dibenz(a,h)anthracene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Di-n-butylphthalate	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
3,3-Dichlorobenzidine	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2,4-Dichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Diethylphthalate	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2,4-Dimethylphenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Dimethylphthalate	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2,4-Dinitrophenol	ND	18	µg/L	1	V-04	SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2,4-Dinitrotoluene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2,6-Dinitrotoluene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Di-n-octylphthalate	ND	9.0	µg/L	1	V-04	SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Fluorene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Hexachlorobenzene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL

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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-01-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-02

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Hexachlorocyclopentadiene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Hexachloroethane	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Isophorone	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
1-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2-Methylphenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
3/4-Methylphenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Naphthalene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
3-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
4-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Nitrobenzene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2-Nitrophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
4-Nitrophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
N-Nitrosodi-n-propylamine	ND	9.0	µg/L	1	V-05	SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Pentachlorophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Phenanthrene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Phenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Pyrene	ND	4.5	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
Pyridine	ND	18	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2,4,5-Trichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL
2,4,6-Trichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	5/7/25	5/8/25 15:02	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	28.4	15-110	5/8/25 15:02
Phenol-d6	21.2	15-110	5/8/25 15:02
Nitrobenzene-d5	58.9	30-130	5/8/25 15:02
2-Fluorobiphenyl	56.3	30-130	5/8/25 15:02
2,4,6-Tribromophenol	46.4	15-110	5/8/25 15:02
p-Terphenyl-d14	75.1	30-130	5/8/25 15:02



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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-01-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-02

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	18	0.19	µg/L	1	B, B-07	SW-846 8270E	5/7/25	5/10/25 0:06	GJB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,4-Dioxane-d8	26.5	15-110			5/10/25 0:06				

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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-01-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-02

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)	30	6.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluoropentanoic acid (PFPeA)	18	3.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorohexanoic acid (PFHxA)	23	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluoroheptanoic acid (PFHpA)	12	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorooctanoic acid (PFOA)	44	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorononanoic acid (PFNA)	28	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorobutanesulfonic acid (PFBS)	3.2	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluoropentanesulfonic acid (PFPeS)	2.6	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorohexanesulfonic acid (PFHxS)	7.2	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorooctanesulfonic acid (PFOS)	14	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
N-EtFOSAA (NEtFOSAA)	2.2	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
9Cl-PF3ONS (F53B Minor)	ND	6.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
11Cl-PF3OUdS (F53B Major)	ND	6.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	7.5	ng/L	1	L-03	Draft Method 1633	5/12/25	5/13/25 23:01	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	38	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	38	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML

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: 25E0484

Date Received: 5/7/2025

Field Sample #: PD-CP-01-050625

Sampled: 5/6/2025 11:30

Sample ID: 25E0484-02

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	3.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:01	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
13C4-PFBA	72.5		5-130				5/13/25 23:01		
13C5-PFPeA	66.4		40-130				5/13/25 23:01		
13C5-PFHxA	68.8		40-130				5/13/25 23:01		
13C4-PFHpA	66.1		40-130				5/13/25 23:01		
13C8-PFOA	70.0		40-130				5/13/25 23:01		
13C9-PFNA	66.0		40-130				5/13/25 23:01		
13C6-PFDA	62.2		40-130				5/13/25 23:01		
13C7-PFUnA	59.8		30-130				5/13/25 23:01		
13C2-PFD _o A	51.8		10-130				5/13/25 23:01		
13C2-PFTeDA	46.3		10-130				5/13/25 23:01		
13C3-PFBS	73.4		40-135				5/13/25 23:01		
13C3-PFHxS	67.8		40-130				5/13/25 23:01		
13C8-PFOS	69.4		40-130				5/13/25 23:01		
13C2-4:2FTS	109		40-200				5/13/25 23:01		
13C2-6:2FTS	74.0		40-200				5/13/25 23:01		
13C2-8:2FTS	61.2		40-300				5/13/25 23:01		
13C8-PFOSA	74.1		40-130				5/13/25 23:01		
D3-NMeFOSA	66.9		10-130				5/13/25 23:01		
D5-NEtFOSA	64.1		10-130				5/13/25 23:01		
D3-NMeFOSAA	64.7		40-170				5/13/25 23:01		
D5-NEtFOSAA	63.1		25-135				5/13/25 23:01		
D7-NMeFOSE	66.4		10-130				5/13/25 23:01		
D9-NEtFOSE	63.1		10-130				5/13/25 23:01		
13C3-HFPO-DA	75.1		40-130				5/13/25 23:01		



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: 25E0484

Date Received: 5/7/2025

Field Sample #: ASF-CP-00-050625

Sampled: 5/6/2025 11:00

Sample ID: 25E0484-03

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	18	0.19	µg/L	1	B, B-07	SW-846 8270E	5/7/25	5/10/25 0:26	GJB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,4-Dioxane-d8	26.7	15-110			5/10/25 0:26				

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: 25E0484

Date Received: 5/7/2025

Field Sample #: ASF-CP-00-050625

Sampled: 5/6/2025 11:00

Sample ID: 25E0484-03

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	5.8	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluoropentanoic acid (PFPeA)	18	2.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorohexanoic acid (PFHxA)	23	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluoroheptanoic acid (PFHpA)	11	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorooctanoic acid (PFOA)	43	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorononanoic acid (PFNA)	27	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorodecanoic acid (PFDA)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorododecanoic acid (PFDoA)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorobutanesulfonic acid (PFBS)	2.9	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluoropentanesulfonic acid (PFPeS)	2.4	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorohexanesulfonic acid (PFHxS)	7.2	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorooctanesulfonic acid (PFOS)	13	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.8	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.8	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.8	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
N-MeFOSAA (NMeFOSAA)	ND	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
N-EtFOSAA (NEtFOSAA)	1.7	1.4	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	14	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	14	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.8	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.8	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
9Cl-PF3ONS (F53B Minor)	ND	5.8	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
11Cl-PF3OUdS (F53B Major)	ND	5.8	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	7.2	ng/L	1	L-03	Draft Method 1633	5/12/25	5/13/25 23:10	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	36	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	36	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML

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: 25E0484

Date Received: 5/7/2025

Field Sample #: ASF-CP-00-050625

Sampled: 5/6/2025 11:00

Sample ID: 25E0484-03

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	2.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:10	CML
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
13C4-PFBA	98.1		5-130				5/13/25 23:10		
13C5-PFPeA	91.0		40-130				5/13/25 23:10		
13C5-PFHxA	98.0		40-130				5/13/25 23:10		
13C4-PFHpA	95.0		40-130				5/13/25 23:10		
13C8-PFOA	94.6		40-130				5/13/25 23:10		
13C9-PFNA	91.2		40-130				5/13/25 23:10		
13C6-PFDA	94.8		40-130				5/13/25 23:10		
13C7-PFUnA	86.0		30-130				5/13/25 23:10		
13C2-PFD _o A	78.5		10-130				5/13/25 23:10		
13C2-PFTeDA	69.8		10-130				5/13/25 23:10		
13C3-PFBS	105		40-135				5/13/25 23:10		
13C3-PFHxS	93.9		40-130				5/13/25 23:10		
13C8-PFOS	93.2		40-130				5/13/25 23:10		
13C2-4:2FTS	158		40-200				5/13/25 23:10		
13C2-6:2FTS	105		40-200				5/13/25 23:10		
13C2-8:2FTS	78.7		40-300				5/13/25 23:10		
13C8-PFOSA	76.6		40-130				5/13/25 23:10		
D3-NMeFOSA	69.0		10-130				5/13/25 23:10		
D5-NEtFOSA	67.4		10-130				5/13/25 23:10		
D3-NMeFOSAA	92.1		40-170				5/13/25 23:10		
D5-NEtFOSAA	83.7		25-135				5/13/25 23:10		
D7-NMeFOSE	71.1		10-130				5/13/25 23:10		
D9-NEtFOSE	65.5		10-130				5/13/25 23:10		
13C3-HFPO-DA	101		40-130				5/13/25 23:10		



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: 25E0484

Date Received: 5/7/2025

Field Sample #: ASF-CP-01-050625

Sampled: 5/6/2025 11:00

Sample ID: 25E0484-04

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	18	0.19	µg/L	1	B, B-07	SW-846 8270E	5/7/25	5/10/25 0:47	GJB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,4-Dioxane-d8	26.5		15-110					5/10/25 0:47	

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: 25E0484

Date Received: 5/7/2025

Field Sample #: ASF-CP-01-050625

Sampled: 5/6/2025 11:00

Sample ID: 25E0484-04

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	5.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluoropentanoic acid (PFPeA)	19	2.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorohexanoic acid (PFHxA)	24	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluoroheptanoic acid (PFHpA)	12	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorooctanoic acid (PFOA)	44	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorononanoic acid (PFNA)	29	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorobutanesulfonic acid (PFBS)	3.3	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluoropentanesulfonic acid (PFPeS)	2.6	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorohexanesulfonic acid (PFHxS)	8.1	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorooctanesulfonic acid (PFOS)	14	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
N-EtFOSAA (NEtFOSAA)	1.8	1.5	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
11Cl-PF3OUdS (F53B Major)	ND	5.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	7.3	ng/L	1	L-03	Draft Method 1633	5/12/25	5/13/25 23:20	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	37	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	37	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML

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: 25E0484

Date Received: 5/7/2025

Field Sample #: ASF-CP-01-050625

Sampled: 5/6/2025 11:00

Sample ID: 25E0484-04

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	2.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	ng/L	1		Draft Method 1633	5/12/25	5/13/25 23:20	CML
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	93.9	5-130			5/13/25 23:20				
13C5-PFPeA	86.3	40-130			5/13/25 23:20				
13C5-PFHxA	92.1	40-130			5/13/25 23:20				
13C4-PFHpA	89.5	40-130			5/13/25 23:20				
13C8-PFOA	94.5	40-130			5/13/25 23:20				
13C9-PFNA	86.7	40-130			5/13/25 23:20				
13C6-PFDA	86.0	40-130			5/13/25 23:20				
13C7-PFUnA	80.5	30-130			5/13/25 23:20				
13C2-PFD _o A	66.4	10-130			5/13/25 23:20				
13C2-PFTeDA	58.4	10-130			5/13/25 23:20				
13C3-PFBS	101	40-135			5/13/25 23:20				
13C3-PFHxS	92.4	40-130			5/13/25 23:20				
13C8-PFOS	84.3	40-130			5/13/25 23:20				
13C2-4:2FTS	150	40-200			5/13/25 23:20				
13C2-6:2FTS	98.4	40-200			5/13/25 23:20				
13C2-8:2FTS	77.5	40-300			5/13/25 23:20				
13C8-PFOSA	73.1	40-130			5/13/25 23:20				
D3-NMeFOSA	63.1	10-130			5/13/25 23:20				
D5-NEtFOSA	63.2	10-130			5/13/25 23:20				
D3-NMeFOSAA	83.6	40-170			5/13/25 23:20				
D5-NEtFOSAA	71.7	25-135			5/13/25 23:20				
D7-NMeFOSE	68.6	10-130			5/13/25 23:20				
D9-NEtFOSE	61.9	10-130			5/13/25 23:20				
13C3-HFPO-DA	95.1	40-130			5/13/25 23:20				

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: 25E0484

Date Received: 5/7/2025

Field Sample #: TB-050625

Sampled: 5/6/2025 00:00

Sample ID: 25E0484-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/8/25	5/8/25 22:25	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Chloroethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	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: 25E0484

Date Received: 5/7/2025

Field Sample #: TB-050625

Sampled: 5/6/2025 00:00

Sample ID: 25E0484-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	5/8/25	5/8/25 22:25	MF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		111	70-130					5/8/25 22:25	
Toluene-d8		101	70-130					5/8/25 22:25	
4-Bromofluorobenzene		98.2	70-130					5/8/25 22:25	



Pace Analytical Services, LLC - East Longmeadow, Ma

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: 25E0484

Date Received: 5/7/2025

Field Sample #: TB-050625

Sampled: 5/6/2025 00:00

Sample ID: 25E0484-05

Sample Matrix: Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	5/8/25	5/8/25 22:25	MF

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

Sample Extraction Data

Prep Method:EPA 1633 Analytical Method:Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25E0484-01 [PD-CP-00-050625]	B404887	509	4.00	05/12/25
25E0484-02 [PD-CP-01-050625]	B404887	530	4.00	05/12/25
25E0484-03 [ASF-CP-00-050625]	B404887	556	4.00	05/12/25
25E0484-04 [ASF-CP-01-050625]	B404887	545	4.00	05/12/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25E0484-01 [PD-CP-00-050625]	B404664	5	5.00	05/08/25
25E0484-02 [PD-CP-01-050625]	B404664	5	5.00	05/08/25
25E0484-05 [TB-050625]	B404664	5	5.00	05/08/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25E0484-01 [PD-CP-00-050625]	B404578	111	1.00	05/07/25
25E0484-02 [PD-CP-01-050625]	B404578	112	1.00	05/07/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25E0484-01 [PD-CP-00-050625]	B404595	1050	1.00	05/07/25
25E0484-02 [PD-CP-01-050625]	B404595	1040	1.00	05/07/25
25E0484-03 [ASF-CP-00-050625]	B404595	1050	1.00	05/07/25
25E0484-04 [ASF-CP-01-050625]	B404595	1050	1.00	05/07/25

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 B404664 - SW-846 5030B

Blank (B404664-BLK1)

Prepared & Analyzed: 05/08/25

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							V-05
2-Butanone (MEK)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	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							V-05
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							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	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							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	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							

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
Batch B404664 - SW-846 5030B										
Blank (B404664-BLK1)										
Prepared & Analyzed: 05/08/25										
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
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	28.6		µg/L	25.00		114	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.00		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.00		96.2	70-130			
LCS (B404664-BS1)										
Prepared & Analyzed: 05/08/25										
Acetone	102	50	µg/L	100.0		102	70-160			†
Benzene	10.2	1.0	µg/L	10.00		102	70-130			
Bromochloromethane	11.5	1.0	µg/L	10.00		115	70-130			
Bromodichloromethane	11.9	0.50	µg/L	10.00		119	70-130			
Bromoform	10.2	1.0	µg/L	10.00		102	70-130			
Bromomethane	6.71	2.0	µg/L	10.00		67.1	40-160	V-05		†
2-Butanone (MEK)	111	20	µg/L	100.0		111	40-160			†
n-Butylbenzene	10.6	1.0	µg/L	10.00		106	70-130			
sec-Butylbenzene	9.65	1.0	µg/L	10.00		96.5	70-130			
tert-Butylbenzene	10.5	1.0	µg/L	10.00		105	70-130			
Carbon Disulfide	86.5	5.0	µg/L	100.0		86.5	70-130			
Carbon Tetrachloride	11.1	5.0	µg/L	10.00		111	70-130			
Chlorobenzene	10.1	1.0	µg/L	10.00		101	70-130			
Chlorodibromomethane	10.9	0.50	µg/L	10.00		109	70-130			
Chloroethane	7.89	2.0	µg/L	10.00		78.9	70-130	V-05		
Chloroform	10.6	2.0	µg/L	10.00		106	70-130			
Chloromethane	9.73	2.0	µg/L	10.00		97.3	40-160			†
Cyclohexane	9.71	5.0	µg/L	10.00		97.1	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.5	5.0	µg/L	10.00		105	70-130			
1,2-Dibromoethane (EDB)	11.3	0.50	µg/L	10.00		113	70-130			
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.00		105	70-130			
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.00		106	70-130			
1,4-Dichlorobenzene	9.92	1.0	µg/L	10.00		99.2	70-130			
Dichlorodifluoromethane (Freon 12)	9.81	2.0	µg/L	10.00		98.1	40-160			†
1,1-Dichloroethane	10.3	1.0	µg/L	10.00		103	70-130			
1,2-Dichloroethane	12.6	1.0	µg/L	10.00		126	70-130	V-20		
1,1-Dichloroethylene	9.10	1.0	µg/L	10.00		91.0	70-130			
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.00		107	70-130			
trans-1,2-Dichloroethylene	9.78	1.0	µg/L	10.00		97.8	70-130			
1,2-Dichloropropane	11.0	1.0	µg/L	10.00		110	70-130			
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.00		108	70-130			
trans-1,3-Dichloropropene	12.5	0.50	µg/L	10.00		125	70-130			V-20
Ethylbenzene	10.2	1.0	µg/L	10.00		102	70-130			
2-Hexanone (MBK)	105	10	µg/L	100.0		105	70-160			†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.00		101	70-130			
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.00		102	70-130			
Methyl Acetate	12.7	1.0	µg/L	10.00		127	70-130			V-20
Methyl tert-Butyl Ether (MTBE)	10.7	1.0	µg/L	10.00		107	70-130			

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
Batch B404664 - SW-846 5030B										
LCS (B404664-BS1)										
Prepared & Analyzed: 05/08/25										
Methyl Cyclohexane	10.7	1.0	µg/L	10.00		107	70-130			
Methylene Chloride	9.24	5.0	µg/L	10.00		92.4	70-130			
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100.0		101	70-160			†
Naphthalene	11.1	2.0	µg/L	10.00		111	40-130			†
n-Propylbenzene	10.0	1.0	µg/L	10.00		100	70-130			
Styrene	10.2	1.0	µg/L	10.00		102	70-130			
1,1,2,2-Tetrachloroethane	9.45	0.50	µg/L	10.00		94.5	70-130			
Tetrachloroethylene	11.6	1.0	µg/L	10.00		116	70-130			
Toluene	10.1	1.0	µg/L	10.00		101	70-130			
1,2,3-Trichlorobenzene	12.3	5.0	µg/L	10.00		123	70-130			
1,2,4-Trichlorobenzene	11.4	1.0	µg/L	10.00		114	70-130			
1,1,1-Trichloroethane	11.2	1.0	µg/L	10.00		112	70-130			
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.00		110	70-130			
Trichloroethylene	11.0	1.0	µg/L	10.00		110	70-130			
Trichlorofluoromethane (Freon 11)	10.3	2.0	µg/L	10.00		103	70-130			
1,2,3-Trichloropropane	9.10	2.0	µg/L	10.00		91.0	70-130			
1,1,1,2-Tetrafluoroethane (Freon 113)	9.19	1.0	µg/L	10.00		91.9	70-130			
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.00		103	70-130			
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.00		104	70-130			
Vinyl Chloride	8.68	2.0	µg/L	10.00		86.8	40-160			†
m+p Xylene	19.7	2.0	µg/L	20.00		98.4	70-130			
o-Xylene	10.0	1.0	µg/L	10.00		100	70-130			
Xylenes (total)	29.7	1.0	µg/L	30.00		99.1	0-200			
Surrogate: 1,2-Dichloroethane-d4	27.8		µg/L	25.00		111	70-130			
Surrogate: Toluene-d8	24.1		µg/L	25.00		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	23.5		µg/L	25.00		94.2	70-130			
LCS Dup (B404664-BSD1)										
Prepared & Analyzed: 05/08/25										
Acetone	105	50	µg/L	100.0		105	70-160	2.87	25	†
Benzene	10.6	1.0	µg/L	10.00		106	70-130	3.46	25	
Bromochloromethane	11.8	1.0	µg/L	10.00		118	70-130	2.84	25	
Bromodichloromethane	11.6	0.50	µg/L	10.00		116	70-130	3.15	25	
Bromoform	9.83	1.0	µg/L	10.00		98.3	70-130	3.99	25	
Bromomethane	7.82	2.0	µg/L	10.00		78.2	40-160	15.3	25	V-05 †
2-Butanone (MEK)	115	20	µg/L	100.0		115	40-160	4.02	25	†
n-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130	2.76	25	
sec-Butylbenzene	9.79	1.0	µg/L	10.00		97.9	70-130	1.44	25	
tert-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130	0.573	25	
Carbon Disulfide	90.3	5.0	µg/L	100.0		90.3	70-130	4.38	25	
Carbon Tetrachloride	11.5	5.0	µg/L	10.00		115	70-130	3.72	25	
Chlorobenzene	10.6	1.0	µg/L	10.00		106	70-130	4.94	25	
Chlorodibromomethane	10.9	0.50	µg/L	10.00		109	70-130	0.183	25	
Chloroethane	7.81	2.0	µg/L	10.00		78.1	70-130	1.02	25	V-05
Chloroform	11.2	2.0	µg/L	10.00		112	70-130	6.06	25	
Chloromethane	9.84	2.0	µg/L	10.00		98.4	40-160	1.12	25	†
Cyclohexane	10.1	5.0	µg/L	10.00		101	70-130	3.74	25	
1,2-Dibromo-3-chloropropane (DBCP)	11.0	5.0	µg/L	10.00		110	70-130	5.11	25	
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.00		107	70-130	5.29	25	
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.00		103	70-130	2.69	25	
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130	0.845	25	
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.00		105	70-130	6.06	25	
Dichlorodifluoromethane (Freon 12)	10.4	2.0	µg/L	10.00		104	40-160	6.32	25	†

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 B404664 - SW-846 5030B

LCS Dup (B404664-BSD1)

Prepared & Analyzed: 05/08/25

1,1-Dichloroethane	10.5	1.0	µg/L	10.00		105	70-130	1.35	25	
1,2-Dichloroethane	12.9	1.0	µg/L	10.00		129	70-130	2.91	25	V-20
1,1-Dichloroethylene	9.68	1.0	µg/L	10.00		96.8	70-130	6.18	25	
cis-1,2-Dichloroethylene	11.1	1.0	µg/L	10.00		111	70-130	3.85	25	
trans-1,2-Dichloroethylene	9.78	1.0	µg/L	10.00		97.8	70-130	0.00	25	
1,2-Dichloropropane	10.9	1.0	µg/L	10.00		109	70-130	1.09	25	
cis-1,3-Dichloropropene	11.5	0.50	µg/L	10.00		115	70-130	6.64	25	
trans-1,3-Dichloropropene	12.1	0.50	µg/L	10.00		121	70-130	3.66	25	V-20
Ethylbenzene	10.5	1.0	µg/L	10.00		105	70-130	2.81	25	
2-Hexanone (MBK)	108	10	µg/L	100.0		108	70-160	2.59	25	†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.00		102	70-130	0.989	25	
p-Isopropyltoluene (p-Cymene)	10.9	1.0	µg/L	10.00		109	70-130	6.25	25	
Methyl Acetate	12.8	1.0	µg/L	10.00		128	70-130	1.18	25	V-20
Methyl tert-Butyl Ether (MTBE)	10.9	1.0	µg/L	10.00		109	70-130	1.76	25	
Methyl Cyclohexane	11.8	1.0	µg/L	10.00		118	70-130	9.73	25	
Methylene Chloride	9.92	5.0	µg/L	10.00		99.2	70-130	7.10	25	
4-Methyl-2-pentanone (MIBK)	103	10	µg/L	100.0		103	70-160	2.38	25	†
Naphthalene	10.7	2.0	µg/L	10.00		107	40-130	4.04	25	†
n-Propylbenzene	10.1	1.0	µg/L	10.00		101	70-130	0.398	25	
Styrene	10.6	1.0	µg/L	10.00		106	70-130	3.36	25	
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.00		101	70-130	6.55	25	
Tetrachloroethylene	11.6	1.0	µg/L	10.00		116	70-130	0.0862	25	
Toluene	10.6	1.0	µg/L	10.00		106	70-130	4.35	25	
1,2,3-Trichlorobenzene	12.7	5.0	µg/L	10.00		127	70-130	3.12	25	
1,2,4-Trichlorobenzene	11.9	1.0	µg/L	10.00		119	70-130	4.82	25	
1,1,1-Trichloroethane	11.7	1.0	µg/L	10.00		117	70-130	4.11	25	
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.00		114	70-130	4.10	25	
Trichloroethylene	11.5	1.0	µg/L	10.00		115	70-130	5.07	25	
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.00		106	70-130	3.24	25	
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.00		101	70-130	10.1	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.06	1.0	µg/L	10.00		90.6	70-130	1.42	25	
1,2,4-Trimethylbenzene	11.1	1.0	µg/L	10.00		111	70-130	7.50	25	
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.00		111	70-130	6.89	25	
Vinyl Chloride	8.80	2.0	µg/L	10.00		88.0	40-160	1.37	25	†
m+p Xylene	20.7	2.0	µg/L	20.00		104	70-130	5.15	25	
o-Xylene	10.4	1.0	µg/L	10.00		104	70-130	4.01	25	
Xylenes (total)	31.2	1.0	µg/L	30.00		104	0-200	4.76		
Surrogate: 1,2-Dichloroethane-d4	27.7		µg/L	25.00		111	70-130			
Surrogate: Toluene-d8	24.0		µg/L	25.00		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	24.2		µg/L	25.00		96.6	70-130			

Matrix Spike (B404664-MS1)

Source: 25E0484-01

Prepared: 05/08/25 Analyzed: 05/09/25

Acetone	108	50	µg/L	100.0	5.25	103	70-130			
Benzene	11.0	1.0	µg/L	10.00	ND	110	70-130			
Bromochloromethane	11.7	1.0	µg/L	10.00	ND	117	70-130			
Bromodichloromethane	11.4	0.50	µg/L	10.00	ND	114	70-130			
Bromoform	10.3	1.0	µg/L	10.00	ND	103	70-130			
Bromomethane	9.15	2.0	µg/L	10.00	ND	91.5	70-130			V-05
2-Butanone (MEK)	115	20	µg/L	100.0	ND	115	70-130			
n-Butylbenzene	10.4	1.0	µg/L	10.00	ND	104	70-130			
sec-Butylbenzene	9.91	1.0	µg/L	10.00	ND	99.1	70-130			
tert-Butylbenzene	11.1	1.0	µg/L	10.00	ND	111	70-130			

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
Batch B404664 - SW-846 5030B										
Matrix Spike (B404664-MS1)	Source: 25E0484-01			Prepared: 05/08/25 Analyzed: 05/09/25						
Carbon Disulfide	93.8	5.0	µg/L	100.0	ND	93.8	70-130			
Carbon Tetrachloride	12.2	5.0	µg/L	10.00	ND	122	70-130			
Chlorobenzene	11.0	1.0	µg/L	10.00	ND	110	70-130			
Chlorodibromomethane	11.1	0.50	µg/L	10.00	ND	111	70-130			
Chloroethane	8.80	2.0	µg/L	10.00	ND	88.0	70-130			V-05
Chloroform	11.5	2.0	µg/L	10.00	ND	115	70-130			
Chloromethane	11.3	2.0	µg/L	10.00	ND	113	70-130			
Cyclohexane	11.5	5.0	µg/L	10.00	ND	115	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.56	5.0	µg/L	10.00	ND	95.6	70-130			
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.00	ND	107	70-130			
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.00	ND	103	70-130			
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.00	ND	105	70-130			
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.00	ND	101	70-130			
Dichlorodifluoromethane (Freon 12)	12.1	2.0	µg/L	10.00	ND	121	70-130			
1,1-Dichloroethane	11.0	1.0	µg/L	10.00	ND	110	70-130			
1,2-Dichloroethane	12.1	1.0	µg/L	10.00	ND	121	70-130			V-20
1,1-Dichloroethylene	10.5	1.0	µg/L	10.00	ND	105	70-130			
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.00	ND	107	70-130			
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.00	ND	106	70-130			
1,2-Dichloropropane	11.1	1.0	µg/L	10.00	ND	111	70-130			
cis-1,3-Dichloropropene	10.5	0.50	µg/L	10.00	ND	105	70-130			
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.00	ND	112	70-130			V-20
Ethylbenzene	11.1	1.0	µg/L	10.00	ND	111	70-130			
2-Hexanone (MBK)	112	10	µg/L	100.0	ND	112	70-130			
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.00	ND	108	70-130			
p-Isopropyltoluene (p-Cymene)	10.8	1.0	µg/L	10.00	ND	108	70-130			
Methyl Acetate	7.97	1.0	µg/L	10.00	ND	79.7	70-130			V-20
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.00	ND	105	70-130			
Methyl Cyclohexane	11.8	1.0	µg/L	10.00	ND	118	70-130			
Methylene Chloride	9.79	5.0	µg/L	10.00	ND	97.9	70-130			
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100.0	ND	105	70-130			
Naphthalene	11.2	2.0	µg/L	10.00	ND	112	70-130			
n-Propylbenzene	11.7	1.0	µg/L	10.00	ND	117	70-130			
Styrene	10.7	1.0	µg/L	10.00	ND	107	70-130			
1,1,1,2-Tetrachloroethane	10.0	0.50	µg/L	10.00	ND	100	70-130			
Tetrachloroethylene	12.0	1.0	µg/L	10.00	ND	120	70-130			
Toluene	10.5	1.0	µg/L	10.00	ND	105	70-130			
1,2,3-Trichlorobenzene	10.8	5.0	µg/L	10.00	ND	108	70-130			
1,2,4-Trichlorobenzene	11.7	1.0	µg/L	10.00	ND	117	70-130			
1,1,1-Trichloroethane	12.1	1.0	µg/L	10.00	ND	121	70-130			
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.00	ND	111	70-130			
Trichloroethylene	11.5	1.0	µg/L	10.00	ND	115	70-130			
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.00	ND	111	70-130			
1,2,3-Trichloropropane	9.91	2.0	µg/L	10.00	ND	99.1	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.86	1.0	µg/L	10.00	ND	98.6	70-130			
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.00	ND	106	70-130			
1,3,5-Trimethylbenzene	11.3	1.0	µg/L	10.00	ND	113	70-130			
Vinyl Chloride	9.87	2.0	µg/L	10.00	ND	98.7	70-130			
m+p Xylene	21.9	2.0	µg/L	20.00	ND	110	70-130			
o-Xylene	10.9	1.0	µg/L	10.00	ND	109	70-130			
Xylenes (total)	32.8	1.0	µg/L	30.00	ND	109	0-200			

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
Batch B404664 - SW-846 5030B										
Matrix Spike (B404664-MS1) Source: 25E0484-01 Prepared: 05/08/25 Analyzed: 05/09/25										
Surrogate: 1,2-Dichloroethane-d4	28.5		µg/L	25.00		114	70-130			
Surrogate: Toluene-d8	23.8		µg/L	25.00		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	24.5		µg/L	25.00		98.0	70-130			
Matrix Spike Dup (B404664-MSD1) Source: 25E0484-01 Prepared: 05/08/25 Analyzed: 05/09/25										
Acetone	105	50	µg/L	100.0	5.25	99.5	70-130	3.43	30	
Benzene	11.1	1.0	µg/L	10.00	ND	111	70-130	0.181	30	
Bromochloromethane	11.3	1.0	µg/L	10.00	ND	113	70-130	3.30	30	
Bromodichloromethane	11.7	0.50	µg/L	10.00	ND	117	70-130	2.42	30	
Bromoform	10.4	1.0	µg/L	10.00	ND	104	70-130	1.35	30	
Bromomethane	9.06	2.0	µg/L	10.00	ND	90.6	70-130	0.988	30	V-05
2-Butanone (MEK)	112	20	µg/L	100.0	ND	112	70-130	2.83	30	
n-Butylbenzene	11.8	1.0	µg/L	10.00	ND	118	70-130	12.6	30	
sec-Butylbenzene	10.8	1.0	µg/L	10.00	ND	108	70-130	8.13	30	
tert-Butylbenzene	11.2	1.0	µg/L	10.00	ND	112	70-130	1.53	30	
Carbon Disulfide	95.7	5.0	µg/L	100.0	ND	95.7	70-130	1.98	30	
Carbon Tetrachloride	12.4	5.0	µg/L	10.00	ND	124	70-130	1.62	30	
Chlorobenzene	10.6	1.0	µg/L	10.00	ND	106	70-130	3.79	30	
Chlorodibromomethane	11.2	0.50	µg/L	10.00	ND	112	70-130	0.538	30	
Chloroethane	8.53	2.0	µg/L	10.00	ND	85.3	70-130	3.12	30	V-05
Chloroform	11.6	2.0	µg/L	10.00	ND	116	70-130	0.778	30	
Chloromethane	11.8	2.0	µg/L	10.00	ND	118	70-130	3.72	30	
Cyclohexane	11.5	5.0	µg/L	10.00	ND	115	70-130	0.435	30	
1,2-Dibromo-3-chloropropane (DBCP)	9.25	5.0	µg/L	10.00	ND	92.5	70-130	3.30	30	
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.00	ND	110	70-130	2.86	30	
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.00	ND	106	70-130	3.35	30	
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.00	ND	107	70-130	2.08	30	
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.00	ND	107	70-130	5.87	30	
Dichlorodifluoromethane (Freon 12)	12.3	2.0	µg/L	10.00	ND	123	70-130	1.48	30	
1,1-Dichloroethane	11.0	1.0	µg/L	10.00	ND	110	70-130	0.364	30	
1,2-Dichloroethane	13.0	1.0	µg/L	10.00	ND	130	70-130	6.69	30	V-20
1,1-Dichloroethylene	10.4	1.0	µg/L	10.00	ND	104	70-130	1.15	30	
cis-1,2-Dichloroethylene	11.2	1.0	µg/L	10.00	ND	112	70-130	5.10	30	
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.00	ND	103	70-130	2.30	30	
1,2-Dichloropropane	11.4	1.0	µg/L	10.00	ND	114	70-130	2.41	30	
cis-1,3-Dichloropropene	10.5	0.50	µg/L	10.00	ND	105	70-130	0.0952	30	
trans-1,3-Dichloropropene	11.8	0.50	µg/L	10.00	ND	118	70-130	4.43	30	V-20
Ethylbenzene	11.4	1.0	µg/L	10.00	ND	114	70-130	2.49	30	
2-Hexanone (MBK)	110	10	µg/L	100.0	ND	110	70-130	1.43	30	
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.00	ND	112	70-130	3.64	30	
p-Isopropyltoluene (p-Cymene)	11.6	1.0	µg/L	10.00	ND	116	70-130	6.79	30	
Methyl Acetate	7.93	1.0	µg/L	10.00	ND	79.3	70-130	0.503	30	V-20
Methyl tert-Butyl Ether (MTBE)	11.1	1.0	µg/L	10.00	ND	111	70-130	5.00	30	
Methyl Cyclohexane	12.0	1.0	µg/L	10.00	ND	120	70-130	1.85	30	
Methylene Chloride	10.3	5.0	µg/L	10.00	ND	103	70-130	4.98	30	
4-Methyl-2-pentanone (MIBK)	104	10	µg/L	100.0	ND	104	70-130	0.470	30	
Naphthalene	11.7	2.0	µg/L	10.00	ND	117	70-130	4.98	30	
n-Propylbenzene	11.6	1.0	µg/L	10.00	ND	116	70-130	0.600	30	
Styrene	11.0	1.0	µg/L	10.00	ND	110	70-130	2.39	30	
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.00	ND	102	70-130	1.29	30	
Tetrachloroethylene	12.3	1.0	µg/L	10.00	ND	123	70-130	2.22	30	
Toluene	10.9	1.0	µg/L	10.00	ND	109	70-130	3.73	30	

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
Batch B404664 - SW-846 5030B										
Matrix Spike Dup (B404664-MSD1)										
		Source: 25E0484-01			Prepared: 05/08/25 Analyzed: 05/09/25					
1,2,3-Trichlorobenzene	12.8	5.0	µg/L	10.00	ND	128	70-130	16.8	30	
1,2,4-Trichlorobenzene	11.6	1.0	µg/L	10.00	ND	116	70-130	0.601	30	
1,1,1-Trichloroethane	12.1	1.0	µg/L	10.00	ND	121	70-130	0.330	30	
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.00	ND	114	70-130	2.58	30	
Trichloroethylene	12.4	1.0	µg/L	10.00	ND	124	70-130	7.44	30	
Trichlorofluoromethane (Freon 11)	11.4	2.0	µg/L	10.00	ND	114	70-130	2.40	30	
1,2,3-Trichloropropane	12.4	2.0	µg/L	10.00	ND	124	70-130	22.6	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.39	1.0	µg/L	10.00	ND	93.9	70-130	4.88	30	
1,2,4-Trimethylbenzene	11.0	1.0	µg/L	10.00	ND	110	70-130	3.05	30	
1,3,5-Trimethylbenzene	11.9	1.0	µg/L	10.00	ND	119	70-130	5.42	30	
Vinyl Chloride	9.45	2.0	µg/L	10.00	ND	94.5	70-130	4.35	30	
m+p Xylene	22.1	2.0	µg/L	20.00	ND	111	70-130	1.04	20	
o-Xylene	11.0	1.0	µg/L	10.00	ND	110	70-130	1.19	30	
Xylenes (total)	33.1	1.0	µg/L	30.00	ND	110	0-200	1.09		
Surrogate: 1,2-Dichloroethane-d4	27.9		µg/L	25.00		112	70-130			
Surrogate: Toluene-d8	24.2		µg/L	25.00		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	25.1		µg/L	25.00		100	70-130			

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

QUALITY CONTROL

Semivolatle 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 B404578 - SW-846 3510C

Blank (B404578-BLK1)

Prepared: 05/07/25 Analyzed: 05/08/25

2,3,4,6-Tetrachlorophenol	ND	20	µg/L							
Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04, V-05
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							V-05, V-34
Anthracene	ND	5.0	µg/L							
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							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	10	µg/L							V-05
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							V-05
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							
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	20	µg/L							
2,4-Dinitrophenol	ND	20	µg/L							V-04
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
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							

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 B404578 - SW-846 3510C										
Blank (B404578-BLK1)										
Prepared: 05/07/25 Analyzed: 05/08/25										
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
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-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							V-05
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	20	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	232		µg/L	400.0		58.0	15-110			
Surrogate: Phenol-d6	144		µg/L	400.0		35.9	15-110			
Surrogate: Nitrobenzene-d5	166		µg/L	200.0		83.2	30-130			
Surrogate: 2-Fluorobiphenyl	131		µg/L	200.0		65.5	30-130			
Surrogate: 2,4,6-Tribromophenol	362		µg/L	400.0		90.5	15-110			
Surrogate: p-Terphenyl-d14	201		µg/L	200.0		101	30-130			
LCS (B404578-BS1)										
Prepared: 05/07/25 Analyzed: 05/08/25										
2,3,4,6-Tetrachlorophenol	94.6	20	µg/L	100.0		94.6	40-140			
Atrazine	89.1	20	µg/L	100.0		89.1	40-140			
Benzaldehyde	74.3	10	µg/L	100.0		74.3	40-140			
Biphenyl	57.9	20	µg/L	100.0		57.9	40-140			
Caprolactam	22.6	10	µg/L	100.0		22.6 *	40-140			V-05, L-04
Acenaphthene	52.6	5.0	µg/L	100.0		52.6	40-140			
Acenaphthylene	61.1	5.0	µg/L	100.0		61.1	40-140			
Acetophenone	69.7	10	µg/L	100.0		69.7	40-140			
Aniline	54.4	20	µg/L	100.0		54.4	40-140			V-05, V-34
Anthracene	88.3	5.0	µg/L	100.0		88.3	40-140			
Benzo(a)anthracene	94.2	5.0	µg/L	100.0		94.2	40-140			
Benzo(a)pyrene	93.6	5.0	µg/L	100.0		93.6	40-140			
Benzo(b)fluoranthene	98.8	5.0	µg/L	100.0		98.8	40-140			
Benzo(g,h,i)perylene	103	5.0	µg/L	100.0		103	40-140			
Benzo(k)fluoranthene	103	5.0	µg/L	100.0		103	40-140			R-05
Bis(2-chloroethoxy)methane	80.2	10	µg/L	100.0		80.2	40-140			
Bis(2-chloroethyl)ether	70.3	10	µg/L	100.0		70.3	40-140			
2,2'-oxybis(1-Chloropropane)	61.7	10	µg/L	100.0		61.7	40-140			V-05
Bis(2-Ethylhexyl)phthalate	74.1	10	µg/L	100.0		74.1	40-140			V-05
4-Bromophenylphenylether	74.2	10	µg/L	100.0		74.2	40-140			
Butylbenzylphthalate	85.7	10	µg/L	100.0		85.7	40-140			
Carbazole	93.5	10	µg/L	100.0		93.5	40-140			
4-Chloroaniline	83.3	10	µg/L	100.0		83.3	40-140			
4-Chloro-3-methylphenol	77.8	10	µg/L	100.0		77.8	30-130			
2-Chloronaphthalene	49.2	10	µg/L	100.0		49.2	40-140			
2-Chlorophenol	76.5	10	µg/L	100.0		76.5	30-130			

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

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 B404578 - SW-846 3510C										
LCS (B404578-BS1)										
					Prepared: 05/07/25 Analyzed: 05/08/25					
4-Chlorophenylphenylether	59.7	10	µg/L	100.0		59.7	40-140			
Chrysene	95.6	5.0	µg/L	100.0		95.6	40-140			
Dibenz(a,h)anthracene	98.0	5.0	µg/L	100.0		98.0	40-140			
Dibenzofuran	62.9	5.0	µg/L	100.0		62.9	40-140			
Di-n-butylphthalate	78.7	10	µg/L	100.0		78.7	40-140			
3,3-Dichlorobenzidine	106	10	µg/L	100.0		106	40-140			
2,4-Dichlorophenol	86.5	10	µg/L	100.0		86.5	30-130			
Diethylphthalate	75.1	10	µg/L	100.0		75.1	40-140			
2,4-Dimethylphenol	86.4	10	µg/L	100.0		86.4	30-130			
Dimethylphthalate	82.1	10	µg/L	100.0		82.1	40-140			
4,6-Dinitro-2-methylphenol	90.0	20	µg/L	100.0		90.0	30-130			
2,4-Dinitrophenol	79.6	20	µg/L	100.0		79.6	30-130			V-04
2,4-Dinitrotoluene	90.3	10	µg/L	100.0		90.3	40-140			
2,6-Dinitrotoluene	95.2	10	µg/L	100.0		95.2	40-140			
Di-n-octylphthalate	73.1	10	µg/L	100.0		73.1	40-140			V-04
Fluoranthene	91.9	5.0	µg/L	100.0		91.9	40-140			
Fluorene	65.6	5.0	µg/L	100.0		65.6	40-140			
Hexachlorobenzene	89.6	10	µg/L	100.0		89.6	40-140			
Hexachlorobutadiene	47.6	10	µg/L	100.0		47.6	40-140			
Hexachlorocyclopentadiene	35.5	10	µg/L	100.0		35.5	30-140			†
Hexachloroethane	44.4	10	µg/L	100.0		44.4	40-140			
Indeno(1,2,3-cd)pyrene	102	5.0	µg/L	100.0		102	40-140			
Isophorone	86.8	10	µg/L	100.0		86.8	40-140			
1-Methylnaphthalene	48.0	5.0	µg/L	100.0		48.0	40-140			
2-Methylnaphthalene	45.2	5.0	µg/L	100.0		45.2	40-140			
2-Methylphenol	67.9	10	µg/L	100.0		67.9	30-130			
3/4-Methylphenol	62.6	10	µg/L	100.0		62.6	30-130			
Naphthalene	55.4	5.0	µg/L	100.0		55.4	40-140			
2-Nitroaniline	93.3	10	µg/L	100.0		93.3	40-140			
3-Nitroaniline	95.4	10	µg/L	100.0		95.4	40-140			
4-Nitroaniline	86.4	10	µg/L	100.0		86.4	40-140			
Nitrobenzene	77.6	10	µg/L	100.0		77.6	40-140			
2-Nitrophenol	84.6	10	µg/L	100.0		84.6	30-130			
4-Nitrophenol	50.1	10	µg/L	100.0		50.1	10-130			†
N-Nitrosodiphenylamine/Diphenylamine	84.7	10	µg/L	100.0		84.7	40-140			
N-Nitrosodi-n-propylamine	64.3	10	µg/L	100.0		64.3	40-140			V-05
Pentachlorophenol	97.8	10	µg/L	100.0		97.8	30-130			
Phenanthrene	86.5	5.0	µg/L	100.0		86.5	40-140			
Phenol	43.7	10	µg/L	100.0		43.7	20-130			†
Pyrene	98.2	5.0	µg/L	100.0		98.2	40-140			
Pyridine	36.3	20	µg/L	100.0		36.3	10-140			†
1,2,4,5-Tetrachlorobenzene	52.8	10	µg/L	100.0		52.8	40-140			
2,4,5-Trichlorophenol	93.9	10	µg/L	100.0		93.9	30-130			
2,4,6-Trichlorophenol	89.8	10	µg/L	100.0		89.8	30-130			
Surrogate: 2-Fluorophenol	255		µg/L	400.0		63.7	15-110			
Surrogate: Phenol-d6	170		µg/L	400.0		42.4	15-110			
Surrogate: Nitrobenzene-d5	176		µg/L	200.0		87.9	30-130			
Surrogate: 2-Fluorobiphenyl	175		µg/L	200.0		87.7	30-130			
Surrogate: 2,4,6-Tribromophenol	412		µg/L	400.0		103	15-110			
Surrogate: p-Terphenyl-d14	210		µg/L	200.0		105	30-130			

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

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 B404578 - SW-846 3510C										
LCS Dup (B404578-BSD1)										
					Prepared: 05/07/25 Analyzed: 05/08/25					
2,3,4,6-Tetrachlorophenol	83.0	20	µg/L	100.0		83.0	40-140	13.1	20	
Atrazine	80.3	20	µg/L	100.0		80.3	40-140	10.4	20	
Benzaldehyde	65.2	10	µg/L	100.0		65.2	40-140	13.0	20	
Biphenyl	50.6	20	µg/L	100.0		50.6	40-140	13.4	20	
Caprolactam	21.1	10	µg/L	100.0		21.1	* 40-140	6.77	20	L-04, V-05
Acenaphthene	45.9	5.0	µg/L	100.0		45.9	40-140	13.6	20	
Acenaphthylene	52.6	5.0	µg/L	100.0		52.6	40-140	14.9	20	
Acetophenone	60.9	10	µg/L	100.0		60.9	40-140	13.5	20	
Aniline	54.8	20	µg/L	100.0		54.8	40-140	0.824	50	V-05, V-34 ‡
Anthracene	72.5	5.0	µg/L	100.0		72.5	40-140	19.6	20	
Benzo(a)anthracene	81.2	5.0	µg/L	100.0		81.2	40-140	14.8	20	
Benzo(a)pyrene	78.0	5.0	µg/L	100.0		78.0	40-140	18.2	20	
Benzo(b)fluoranthene	83.3	5.0	µg/L	100.0		83.3	40-140	16.9	20	
Benzo(g,h,i)perylene	87.2	5.0	µg/L	100.0		87.2	40-140	16.9	20	
Benzo(k)fluoranthene	83.0	5.0	µg/L	100.0		83.0	40-140	21.4	* 20	R-05
Bis(2-chloroethoxy)methane	71.5	10	µg/L	100.0		71.5	40-140	11.5	20	
Bis(2-chloroethyl)ether	62.4	10	µg/L	100.0		62.4	40-140	11.9	20	
2,2'-oxybis(1-Chloropropane)	54.3	10	µg/L	100.0		54.3	40-140	12.8	20	V-05
Bis(2-Ethylhexyl)phthalate	64.2	10	µg/L	100.0		64.2	40-140	14.3	20	V-05
4-Bromophenylphenylether	62.0	10	µg/L	100.0		62.0	40-140	17.9	20	
Butylbenzylphthalate	72.4	10	µg/L	100.0		72.4	40-140	16.8	20	
Carbazole	80.7	10	µg/L	100.0		80.7	40-140	14.7	20	
4-Chloroaniline	75.3	10	µg/L	100.0		75.3	40-140	10.1	20	
4-Chloro-3-methylphenol	71.8	10	µg/L	100.0		71.8	30-130	8.04	20	
2-Chloronaphthalene	42.1	10	µg/L	100.0		42.1	40-140	15.7	20	
2-Chlorophenol	66.9	10	µg/L	100.0		66.9	30-130	13.3	20	
4-Chlorophenylphenylether	52.2	10	µg/L	100.0		52.2	40-140	13.4	20	
Chrysene	80.5	5.0	µg/L	100.0		80.5	40-140	17.2	20	
Dibenz(a,h)anthracene	81.9	5.0	µg/L	100.0		81.9	40-140	17.8	20	
Dibenzofuran	54.1	5.0	µg/L	100.0		54.1	40-140	15.0	20	
Di-n-butylphthalate	67.0	10	µg/L	100.0		67.0	40-140	16.1	20	
3,3-Dichlorobenzidine	95.9	10	µg/L	100.0		95.9	40-140	10.3	20	
2,4-Dichlorophenol	77.3	10	µg/L	100.0		77.3	30-130	11.2	20	
Diethylphthalate	67.6	10	µg/L	100.0		67.6	40-140	10.4	20	
2,4-Dimethylphenol	77.6	10	µg/L	100.0		77.6	30-130	10.8	20	
Dimethylphthalate	72.4	10	µg/L	100.0		72.4	40-140	12.6	50	‡
4,6-Dinitro-2-methylphenol	75.9	20	µg/L	100.0		75.9	30-130	16.9	50	‡
2,4-Dinitrophenol	70.8	20	µg/L	100.0		70.8	30-130	11.8	50	V-04 ‡
2,4-Dinitrotoluene	78.3	10	µg/L	100.0		78.3	40-140	14.2	20	
2,6-Dinitrotoluene	82.3	10	µg/L	100.0		82.3	40-140	14.5	20	
Di-n-octylphthalate	60.4	10	µg/L	100.0		60.4	40-140	19.1	20	V-04
Fluoranthene	80.1	5.0	µg/L	100.0		80.1	40-140	13.7	20	
Fluorene	57.8	5.0	µg/L	100.0		57.8	40-140	12.6	20	
Hexachlorobenzene	74.4	10	µg/L	100.0		74.4	40-140	18.5	20	
Hexachlorobutadiene	42.6	10	µg/L	100.0		42.6	40-140	11.0	20	
Hexachlorocyclopentadiene	29.1	10	µg/L	100.0		29.1	* 30-140	19.9	50	L-07 † ‡
Hexachloroethane	38.7	10	µg/L	100.0		38.7	* 40-140	13.9	50	L-07 ‡
Indeno(1,2,3-cd)pyrene	86.7	5.0	µg/L	100.0		86.7	40-140	16.3	50	‡
Isophorone	77.8	10	µg/L	100.0		77.8	40-140	10.9	20	
1-Methylnaphthalene	43.4	5.0	µg/L	100.0		43.4	40-140	10.1	20	
2-Methylnaphthalene	40.6	5.0	µg/L	100.0		40.6	40-140	10.8	20	
2-Methylphenol	62.9	10	µg/L	100.0		62.9	30-130	7.65	20	

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

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 B404578 - SW-846 3510C										
LCS Dup (B404578-BSD1)										
					Prepared: 05/07/25 Analyzed: 05/08/25					
3/4-Methylphenol	57.4	10	µg/L	100.0		57.4	30-130	8.60	20	
Naphthalene	49.6	5.0	µg/L	100.0		49.6	40-140	11.1	20	
2-Nitroaniline	81.5	10	µg/L	100.0		81.5	40-140	13.5	20	
3-Nitroaniline	83.1	10	µg/L	100.0		83.1	40-140	13.8	20	
4-Nitroaniline	79.6	10	µg/L	100.0		79.6	40-140	8.21	20	
Nitrobenzene	66.6	10	µg/L	100.0		66.6	40-140	15.3	20	
2-Nitrophenol	74.9	10	µg/L	100.0		74.9	30-130	12.1	20	
4-Nitrophenol	46.1	10	µg/L	100.0		46.1	10-130	8.34	50	† ‡
N-Nitrosodiphenylamine/Diphenylamine	73.9	10	µg/L	100.0		73.9	40-140	13.6	20	
N-Nitrosodi-n-propylamine	58.2	10	µg/L	100.0		58.2	40-140	9.99	20	V-05
Pentachlorophenol	81.3	10	µg/L	100.0		81.3	30-130	18.5	50	‡
Phenanthrene	73.3	5.0	µg/L	100.0		73.3	40-140	16.5	20	
Phenol	40.3	10	µg/L	100.0		40.3	20-130	8.02	20	†
Pyrene	80.5	5.0	µg/L	100.0		80.5	40-140	19.8	20	
Pyridine	35.8	20	µg/L	100.0		35.8	10-140	1.55	50	† ‡
1,2,4,5-Tetrachlorobenzene	46.8	10	µg/L	100.0		46.8	40-140	12.1	20	
2,4,5-Trichlorophenol	79.1	10	µg/L	100.0		79.1	30-130	17.2	20	
2,4,6-Trichlorophenol	79.8	10	µg/L	100.0		79.8	30-130	11.8	50	‡
Surrogate: 2-Fluorophenol	219		µg/L	400.0		54.7	15-110			
Surrogate: Phenol-d6	145		µg/L	400.0		36.4	15-110			
Surrogate: Nitrobenzene-d5	147		µg/L	200.0		73.6	30-130			
Surrogate: 2-Fluorobiphenyl	145		µg/L	200.0		72.5	30-130			
Surrogate: 2,4,6-Tribromophenol	349		µg/L	400.0		87.2	15-110			
Surrogate: p-Terphenyl-d14	170		µg/L	200.0		84.9	30-130			

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 B404595 - SW-846 3510C										
Blank (B404595-BLK1)										
					Prepared: 05/07/25 Analyzed: 05/08/25					
1,4-Dioxane	0.65	0.20	µg/L							B
Surrogate: 1,4-Dioxane-d8	2.69		µg/L	10.00		26.9	15-110			
LCS (B404595-BS1)										
					Prepared: 05/07/25 Analyzed: 05/08/25					
1,4-Dioxane	10.2	0.20	µg/L	10.00		102	40-140			B
Surrogate: 1,4-Dioxane-d8	3.17		µg/L	10.00		31.7	15-110			
LCS Dup (B404595-BSD1)										
					Prepared: 05/07/25 Analyzed: 05/08/25					
1,4-Dioxane	11.2	0.20	µg/L	10.00		112	40-140	9.12	30	B
Surrogate: 1,4-Dioxane-d8	2.89		µg/L	10.00		28.9	15-110			

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 B404887 - EPA 1633										
Blank (B404887-BLK1)										
					Prepared: 05/12/25 Analyzed: 05/13/25					
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.1	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPPrPA) (3:3FTCA)	ND	7.9	ng/L							L-03
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	81.3		ng/L	78.73		103	5-130			

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 B404887 - EPA 1633

Blank (B404887-BLK1)

Prepared: 05/12/25 Analyzed: 05/13/25

Surrogate: 13C5-PFPeA	41.5		ng/L	39.37		105	40-130			
Surrogate: 13C5-PFHxA	21.1		ng/L	19.68		107	40-130			
Surrogate: 13C4-PFHpA	21.0		ng/L	19.68		107	40-130			
Surrogate: 13C8-PFOA	21.2		ng/L	19.68		108	40-130			
Surrogate: 13C9-PFNA	9.84		ng/L	9.842		100	40-130			
Surrogate: 13C6-PFDA	10.5		ng/L	9.842		107	40-130			
Surrogate: 13C7-PFUnA	9.81		ng/L	9.842		99.7	30-130			
Surrogate: 13C2-PFDoA	8.74		ng/L	9.842		88.8	10-130			
Surrogate: 13C2-PFTeDA	7.95		ng/L	9.842		80.8	10-130			
Surrogate: 13C3-PFBS	21.0		ng/L	19.68		107	40-135			
Surrogate: 13C3-PFHxS	19.5		ng/L	19.68		99.1	40-130			
Surrogate: 13C8-PFOS	20.6		ng/L	19.68		105	40-130			
Surrogate: 13C2-4:2FTS	40.5		ng/L	39.37		103	40-200			
Surrogate: 13C2-6:2FTS	39.6		ng/L	39.37		101	40-200			
Surrogate: 13C2-8:2FTS	38.2		ng/L	39.37		97.1	40-300			
Surrogate: 13C8-PFOA	18.1		ng/L	19.68		92.1	40-130			
Surrogate: D3-NMeFOSA	16.1		ng/L	19.68		81.9	10-130			
Surrogate: D5-NEtFOSA	14.8		ng/L	19.68		75.3	10-130			
Surrogate: D3-NMeFOSAA	43.4		ng/L	39.37		110	40-170			
Surrogate: D5-NEtFOSAA	39.0		ng/L	39.37		99.1	25-135			
Surrogate: D7-NMeFOSE	169		ng/L	196.8		85.7	10-130			
Surrogate: D9-NEtFOSE	159		ng/L	196.8		80.9	10-130			
Surrogate: 13C3-HFPO-DA	86.8		ng/L	78.73		110	40-130			

LCS (B404887-BS1)

Prepared: 05/12/25 Analyzed: 05/13/25

Perfluorobutanoic acid (PFBA)	74.3	6.3	ng/L	78.54		94.6	70-140			
Perfluoropentanoic acid (PFPeA)	38.6	3.1	ng/L	39.27		98.2	65-135			
Perfluorohexanoic acid (PFHxA)	18.9	1.6	ng/L	19.63		96.0	70-145			
Perfluoroheptanoic acid (PFHpA)	18.1	1.6	ng/L	19.63		92.1	70-150			
Perfluorooctanoic acid (PFOA)	18.8	1.6	ng/L	19.63		95.7	70-150			
Perfluorononanoic acid (PFNA)	19.7	1.6	ng/L	19.63		100	70-150			
Perfluorodecanoic acid (PFDA)	19.9	1.6	ng/L	19.63		102	70-140			
Perfluoroundecanoic acid (PFUnA)	18.9	1.6	ng/L	19.63		96.5	70-145			
Perfluorododecanoic acid (PFDoA)	20.5	1.6	ng/L	19.63		104	70-140			
Perfluorotridecanoic acid (PFTTrDA)	18.8	1.6	ng/L	19.63		95.5	65-140			
Perfluorotetradecanoic acid (PFTeDA)	19.7	1.6	ng/L	19.63		100	60-140			
Perfluorobutanesulfonic acid (PFBS)	16.8	1.6	ng/L	17.44		96.3	60-145			
Perfluoropentanesulfonic acid (PFPeS)	18.9	1.6	ng/L	18.46		103	65-140			
Perfluorohexanesulfonic acid (PFHxS)	18.0	1.6	ng/L	17.91		100	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	18.1	1.6	ng/L	18.69		96.9	70-150			
Perfluorooctanesulfonic acid (PFOS)	17.1	1.6	ng/L	18.22		93.7	55-150			
Perfluorononanesulfonic acid (PFNS)	18.4	1.6	ng/L	18.85		97.8	65-145			
Perfluorodecanesulfonic acid (PFDS)	16.2	1.6	ng/L	18.93		85.6	60-145			
Perfluorododecanesulfonic acid (PFDoS)	15.0	1.6	ng/L	19.01		79.0	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	72.4	6.3	ng/L	73.59		98.4	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	79.3	6.3	ng/L	74.69		106	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	76.8	6.3	ng/L	75.40		102	60-150			
Perfluorooctanesulfonamide (PFOSA)	19.9	1.6	ng/L	19.63		101	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	19.1	1.6	ng/L	19.63		97.1	60-150			

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

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 B404887 - EPA 1633

LCS (B404887-BS1)

Prepared: 05/12/25 Analyzed: 05/13/25

N-ethyl perfluorooctanesulfonamide (NEtFOSA)	19.7	1.6	ng/L	19.63		100	65-145			
N-MeFOSAA (NMeFOSAA)	18.1	1.6	ng/L	19.63		92.0	50-140			
N-EtFOSAA (NEtFOSAA)	18.9	1.6	ng/L	19.63		96.4	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	195	16	ng/L	196.3		99.6	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	189	16	ng/L	196.3		96.4	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	76.6	6.3	ng/L	78.54		97.5	70-140			
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	70.6	6.3	ng/L	74.22		95.2	65-145			
9Cl-PF3ONS (F53B Minor)	74.5	6.3	ng/L	73.28		102	70-155			
11Cl-PF3OUdS (F53B Major)	71.0	6.3	ng/L	73.04		97.1	55-160			
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	61.5	7.9	ng/L	98.17		62.7	* 65-130			L-03
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	437	39	ng/L	490.9		89.1	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	455	39	ng/L	490.9		92.7	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	34.4	3.1	ng/L	35.03		98.1	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	34.9	3.1	ng/L	39.27		89.0	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	38.7	3.1	ng/L	39.27		98.5	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	38.3	3.1	ng/L	39.27		97.4	50-150			
Surrogate: 13C4-PFBA	83.6		ng/L	78.54		106	5-130			
Surrogate: 13C5-PFPeA	40.4		ng/L	39.27		103	40-130			
Surrogate: 13C5-PFHxA	20.7		ng/L	19.63		106	40-130			
Surrogate: 13C4-PFHpA	20.6		ng/L	19.63		105	40-130			
Surrogate: 13C8-PFOA	20.2		ng/L	19.63		103	40-130			
Surrogate: 13C9-PFNA	9.95		ng/L	9.817		101	40-130			
Surrogate: 13C6-PFDA	10.1		ng/L	9.817		103	40-130			
Surrogate: 13C7-PFUnA	9.82		ng/L	9.817		100	30-130			
Surrogate: 13C2-PFDoA	8.75		ng/L	9.817		89.1	10-130			
Surrogate: 13C2-PFTeDA	7.69		ng/L	9.817		78.3	10-130			
Surrogate: 13C3-PFBS	20.8		ng/L	19.63		106	40-135			
Surrogate: 13C3-PFHxS	20.1		ng/L	19.63		102	40-130			
Surrogate: 13C8-PFOS	19.9		ng/L	19.63		102	40-130			
Surrogate: 13C2-4:2FTS	40.1		ng/L	39.27		102	40-200			
Surrogate: 13C2-6:2FTS	37.7		ng/L	39.27		96.1	40-200			
Surrogate: 13C2-8:2FTS	37.2		ng/L	39.27		94.8	40-300			
Surrogate: 13C8-PFOA	16.9		ng/L	19.63		86.3	40-130			
Surrogate: D3-NMeFOSA	17.0		ng/L	19.63		86.4	10-130			
Surrogate: D5-NEtFOSA	15.7		ng/L	19.63		80.2	10-130			
Surrogate: D3-NMeFOSAA	43.7		ng/L	39.27		111	40-170			
Surrogate: D5-NEtFOSAA	40.7		ng/L	39.27		104	25-135			
Surrogate: D7-NMeFOSE	158		ng/L	196.3		80.2	10-130			
Surrogate: D9-NEtFOSE	156		ng/L	196.3		79.4	10-130			
Surrogate: 13C3-HFPO-DA	85.0		ng/L	78.54		108	40-130			

MRL Check (B404887-MRL1)

Prepared: 05/12/25 Analyzed: 05/13/25

Perfluorobutanoic acid (PFBA)	11.3	6.3	ng/L	12.55		89.7	70-140			
Perfluoropentanoic acid (PFPeA)	5.79	3.1	ng/L	6.275		92.2	65-135			

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

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 B404887 - EPA 1633										
MRL Check (B404887-MRL1)										
					Prepared: 05/12/25 Analyzed: 05/13/25					
Perfluorohexanoic acid (PFHxA)	2.82	1.6	ng/L	3.138		90.0	70-145			
Perfluoroheptanoic acid (PFHpA)	2.81	1.6	ng/L	3.138		89.5	70-150			
Perfluorooctanoic acid (PFOA)	2.82	1.6	ng/L	3.138		89.7	70-150			
Perfluorononanoic acid (PFNA)	2.82	1.6	ng/L	3.138		89.9	70-150			
Perfluorodecanoic acid (PFDA)	2.83	1.6	ng/L	3.138		90.2	70-140			
Perfluoroundecanoic acid (PFUnA)	2.95	1.6	ng/L	3.138		94.0	70-145			
Perfluorododecanoic acid (PFDoA)	2.76	1.6	ng/L	3.138		87.9	70-140			
Perfluorotridecanoic acid (PFTrDA)	2.92	1.6	ng/L	3.138		93.0	65-140			
Perfluorotetradecanoic acid (PFTeDA)	2.92	1.6	ng/L	3.138		93.0	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.40	1.6	ng/L	2.786		86.3	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.63	1.6	ng/L	2.949		89.3	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.38	1.6	ng/L	2.862		83.3	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	2.69	1.6	ng/L	2.987		90.0	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.74	1.6	ng/L	2.912		94.1	55-150			
Perfluorononanesulfonic acid (PFNS)	2.48	1.6	ng/L	3.012		82.4	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.52	1.6	ng/L	3.025		83.4	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.49	1.6	ng/L	3.037		82.1	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	11.0	6.3	ng/L	11.76		93.6	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	11.0	6.3	ng/L	11.94		92.4	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	10.4	6.3	ng/L	12.05		86.6	60-150			
Perfluorooctanesulfonamide (PFOSA)	2.78	1.6	ng/L	3.138		88.6	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	3.09	1.6	ng/L	3.138		98.5	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.65	1.6	ng/L	3.138		84.4	65-145			
N-MeFOSAA (NMeFOSAA)	2.71	1.6	ng/L	3.138		86.4	50-140			
N-EtFOSAA (NEtFOSAA)	2.89	1.6	ng/L	3.138		92.1	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	29.1	16	ng/L	31.38		92.6	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	29.2	16	ng/L	31.38		93.0	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	11.9	6.3	ng/L	12.55		94.4	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	10.7	6.3	ng/L	11.86		90.5	65-145			
9Cl-PF3ONS (F53B Minor)	11.1	6.3	ng/L	11.71		95.1	70-155			
11Cl-PF3OUdS (F53B Major)	10.7	6.3	ng/L	11.67		91.3	55-160			
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	9.19	7.8	ng/L	15.69		58.5	* 65-130			L-03
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	67.9	39	ng/L	78.44		86.6	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	66.1	39	ng/L	78.44		84.2	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	5.17	3.1	ng/L	5.598		92.3	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.17	3.1	ng/L	6.275		82.5	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.78	3.1	ng/L	6.275		92.1	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.05	3.1	ng/L	6.275		80.5	50-150			
Surrogate: 13C4-PFBA	83.6		ng/L	78.44		107	5-130			
Surrogate: 13C5-PFPeA	42.0		ng/L	39.22		107	40-130			
Surrogate: 13C5-PFHxA	21.1		ng/L	19.61		107	40-130			

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 B404887 - EPA 1633

MRL Check (B404887-MRL1)

Prepared: 05/12/25 Analyzed: 05/13/25

Surrogate: 13C4-PFHpA	21.0		ng/L	19.61		107	40-130			
Surrogate: 13C8-PFOA	21.2		ng/L	19.61		108	40-130			
Surrogate: 13C9-PFNA	10.4		ng/L	9.805		106	40-130			
Surrogate: 13C6-PFDA	10.3		ng/L	9.805		105	40-130			
Surrogate: 13C7-PFUnA	9.65		ng/L	9.805		98.4	30-130			
Surrogate: 13C2-PFDoA	8.72		ng/L	9.805		88.9	10-130			
Surrogate: 13C2-PFTeDA	7.57		ng/L	9.805		77.2	10-130			
Surrogate: 13C3-PFBS	22.6		ng/L	19.61		115	40-135			
Surrogate: 13C3-PFHxS	21.7		ng/L	19.61		111	40-130			
Surrogate: 13C8-PFOS	21.0		ng/L	19.61		107	40-130			
Surrogate: 13C2-4:2FTS	45.1		ng/L	39.22		115	40-200			
Surrogate: 13C2-6:2FTS	43.2		ng/L	39.22		110	40-200			
Surrogate: 13C2-8:2FTS	40.9		ng/L	39.22		104	40-300			
Surrogate: 13C8-PFOSA	19.1		ng/L	19.61		97.4	40-130			
Surrogate: D3-NMeFOSA	16.6		ng/L	19.61		84.5	10-130			
Surrogate: D5-NEtFOSA	18.1		ng/L	19.61		92.2	10-130			
Surrogate: D3-NMeFOSAA	46.3		ng/L	39.22		118	40-170			
Surrogate: D5-NEtFOSAA	41.3		ng/L	39.22		105	25-135			
Surrogate: D7-NMeFOSE	178		ng/L	196.1		90.7	10-130			
Surrogate: D9-NEtFOSE	170		ng/L	196.1		86.7	10-130			
Surrogate: 13C3-HFPO-DA	87.8		ng/L	78.44		112	40-130			

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.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-07	Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
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.
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-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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
Acetone	CT,ME,NH,VA,NY,NJ
Benzene	CT,ME,NH,VA,NY,NJ
Bromochloromethane	ME,NH,VA,NY,NJ
Bromodichloromethane	CT,ME,NH,VA,NY,NJ
Bromoform	CT,ME,NH,VA,NY,NJ
Bromomethane	CT,ME,NH,VA,NY,NJ
2-Butanone (MEK)	CT,ME,NH,VA,NY,NJ
n-Butylbenzene	ME,VA,NY,NJ
sec-Butylbenzene	ME,VA,NY,NJ
tert-Butylbenzene	ME,VA,NY,NJ
Carbon Disulfide	CT,ME,NH,VA,NY,NJ
Carbon Tetrachloride	CT,ME,NH,VA,NY,NJ
Chlorobenzene	CT,ME,NH,VA,NY,NJ
Chlorodibromomethane	CT,ME,NH,VA,NY,NJ
Chloroethane	CT,ME,NH,VA,NY,NJ
Chloroform	CT,ME,NH,VA,NY,NJ
Chloromethane	CT,ME,NH,VA,NY,NJ
Cyclohexane	ME,NY,NJ
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY,NJ
1,2-Dibromoethane (EDB)	ME,NY,NJ
1,2-Dichlorobenzene	CT,ME,NH,VA,NY,NJ
1,3-Dichlorobenzene	CT,ME,NH,VA,NY,NJ
1,4-Dichlorobenzene	CT,ME,NH,VA,NY,NJ
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY,NJ
1,1-Dichloroethane	CT,ME,NH,VA,NY,NJ
1,2-Dichloroethane	CT,ME,NH,VA,NY,NJ
1,1-Dichloroethylene	CT,ME,NH,VA,NY,NJ
cis-1,2-Dichloroethylene	ME,NY,NJ
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY,NJ
1,2-Dichloropropane	CT,ME,NH,VA,NY,NJ
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY,NJ
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY,NJ
1,4-Dioxane	ME,NY,NJ
Ethylbenzene	CT,ME,NH,VA,NY,NJ
Hexachlorobutadiene	CT,ME,NH,VA,NY,NJ
2-Hexanone (MBK)	CT,ME,NH,VA,NY,NJ
Isopropylbenzene (Cumene)	ME,VA,NY,NJ
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY,NJ
Methyl Acetate	ME,NY,NJ
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY,NJ
Methyl Cyclohexane	NY,NJ
Methylene Chloride	CT,ME,NH,VA,NY,NJ
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY,NJ
Naphthalene	ME,NH,VA,NY,NJ
n-Propylbenzene	CT,ME,NH,VA,NY,NJ
Styrene	CT,ME,NH,VA,NY,NJ
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
Tetrachloroethylene	CT,ME,NH,VA,NY,NJ
Toluene	CT,ME,NH,VA,NY,NJ
1,2,3-Trichlorobenzene	ME,NH,VA,NY,NJ
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY,NJ
1,1,1-Trichloroethane	CT,ME,NH,VA,NY,NJ
1,1,2-Trichloroethane	CT,ME,NH,VA,NY,NJ
Trichloroethylene	CT,ME,NH,VA,NY,NJ
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY,NJ
1,2,3-Trichloropropane	ME,NH,VA,NY,NJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY,NJ
1,2,4-Trimethylbenzene	ME,VA,NY,NJ
1,3,5-Trimethylbenzene	ME,VA,NY,NJ
Vinyl Chloride	CT,ME,NH,VA,NY,NJ
m+p Xylene	CT,ME,NH,VA,NY,NJ
o-Xylene	CT,ME,NH,VA,NY,NJ
Xylenes (total)	ME,NY,NJ
SW-846 8270E in Water	
1,4-Dioxane	NY,NH,NJ
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
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
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270E in Water</i>	
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
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-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
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



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

Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2026
NY	New York State Department of Health	10899 NELAP	04/1/2026
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2026
NC	North Carolina Div. of Water Quality	652	12/31/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2025

Chain of Custody / Analysis Report

RAMBOLL
 Sampler(s): *Brian Duro*
 Signature: *Brian Duro*
 Brian Duro
 Laboratory: Pace Analytical Services
 39 Spruce St., East Longmeadow, MA 01028
 Attn: Kyle Murray
 Phone: 413-525-2332

Lab Sample ID: 8270D SIM: 1,4-dioxane
 1633: PFAS
 9012B: Cyanide
 800.0: Anions Cl⁻, SO₄²⁻, CN
 9060A: TOC
 95.1.2: TKM
 7196A: hexavalent chromium
 25400: TSS
 25700: TDS
 5010D TAL Metals + Mercury (7470A)
 8270: DER TCL SVORVTS
 8260: DER TCLVOCs

Preservatives: (see key at bottom)
 1 0 2 0 0 0 3 8 0 4 0 0 0

Analysis Required

Holding Time: Package Requirement: Level 2 and Level 3
 EDD Format: EQUS 4-file

Sample Matrix (See Key) Sample Type (See Key) Time Date

Unique Field Sample ID (sys_sample_code)	Sample Location	Date	Time	Sample Matrix (See Key)	Sample Type (See Key)	Time	Date	Number of Containers	Grab [G] or Composite [C]	Field Filtered? (Y / N)	Analysis Required	Lab Sample ID:
PD-CP-00-050625	PD	5/6/2025	1130	WG	N	1130	5/6/2025	9	G	N	X	X
PD-CP-01-050625	PD	5/6/2025		WG	FD		5/6/2025	9	G	N	X	X
PD-CP-MS-050625	PD	5/6/2025		WG	MS		5/6/2025	3	G	N		
PD-CP-MSD-050625	PD	5/6/2025		WG	MSD		5/6/2025	3	G	N	X	X
ASF-CP-00-050625	N	5/6/2025	1100	WG	N	1100	5/6/2025	4	G	N		
ASF-CP-01-050625	FD	5/6/2025	1100	WG	FD	1100	5/6/2025	4	G	N	X	X
TB-050625		5/6/2025		WQ	TB		5/6/2025	2	N	X		

Special Instructions: OU-5 May 2025 Monthly System Samples

Use the top boxes if the samples are to be shipped via courier (e.g., FedEx)
 Relinquished by: *Brian Duro* GES, Inc.
 Date: 5/6/25 15:10
 Time: 19:10


Courier Name: MO A Pace
 Tracking #: M0A Pace
 Date: 5/6/25
 Time: 15:24

Received By: *Pace*
 Date: 5/6/25
 Time: 15:24

Condition: Custody Seals Intact? (if so, indicate the #, date, and time of the seal)
 Cooler Temperature: 9.0 °C

Other comments or notes regarding condition of samples as received:
 Ring Pace UJ 1800
 1633, 1.2 5/17/25 0210
 2 of 2 COOLERS

Page 58 of 60

	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
Effective Date: 06/11/2024	

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Sample																							
																				Soils Jars																							
																					16oz Amb/Clear	Soils Jars (Circle Amb/Clear)																					
																							8oz Amb/Clear																				
																								4oz Amb/Clear																			
																									2oz Amb/Clear																		
																		2	2	2	2															Unpreserved	Ambers	1 Liter					
																																			HCL								
																																				Sulfuric							
																																				Sulfuric							
																																						Phosphoric					
																																						HCl					
																																					Unpreserved	100ml					
																																					Unpreserved	1 Liter					
																																					Sulfuric						
																																						Unpreserved	500ml				
																																						Sulfuric					
																																						Unpreserved	250ml				
																																						Trizma					
																																						Sulfuric					
																																						Nitric					
																																						NaOH					
																																						Ammonium Acetate					
																																						NaOH/Zinc					
																																						Unpreserved					
																																						HCl	VOA Vials				
																																						MeOH					
																																						D.I. Water					
																																						BiSulfate					
																																						Col/Bact					
																																							Other / Fill in				