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MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE ACTIVITIES (FEBRUARY 2025)

**CLAREMONT POLYCHEMICAL
OPERABLE UNIT 5 GROUND
WATER TREATMENT
SYSTEM, OLD BETHPAGE, NY**

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

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LIST OF ACRONYMS AND ABBREVIATIONS

AS	Air Stripper
A/V	Air and Vacuum
ASF	Air Stripper feed
BNA	Base Neutral & Acid Extractables
CPC	Claremont Polychemical
CSE	Confined Space Entry
DOSR	Daily Operations Summary Report
EE	Electrical Engineer
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 February 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, January 31, 2025, through approximately 0800 hours, February 28, 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 28 days in this reporting period during which the treatment system experienced 5,346 minutes of downtime due to an electrical service interruption. 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 through RW-5 recovery wells were functional and fully operational during the month of February.

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

Maintenance and project activities undertaken during the February 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.
- On February 3 through February 5, 2025, Rebecca Britt and Zach Saltsman (Ramboll) were on site to conduct quarterly groundwater sampling activities.

2.2 NYSDEC Personnel, Sub - contractors, and Other Visitors

- On February 18, 2025, Island Fire Protection technician was on site to troubleshoot alarm conditions at the fire detection system.
- On February 25, 2025, Maccarone Plumbing was on site to conduct the annual water backflow preventer testing at OU5.
- On February 25, 2025, Michael Maha with the Town of Oyster Bay was on site to discuss power disruptions caused by demo activities conducted at the Town of Oyster Bay facility next door.

2.3 Deliveries

- On February 11, 2025, Pace courier delivered coolers for the groundwater sampling and monthly system sampling activities.

- On February 14, 2025, Pace courier delivered coolers for the quarterly groundwater sampling activities.
- On February 21, 2025, Pace courier delivered supplies for the OU-4 waste classification sampling.

3. HEALTH AND SAFETY

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

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

4. PLANNED ACTIVITIES AND SCHEDULES

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

Upcoming tasks include:

- 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 scheduled for May 2025 and will be conducted by Ramboll.

6. TREATMENT SYSTEM FLOWS

During the February 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 February 2025, recovery wells RW-3 through RW-5 operated normally. On February 14, 2025 the OU5 treatment plant lost power and remained without power until February 18, 2025. Upon inquiry with PSEG-LI it was learned that a demolition contractor at the neighboring TOB property had impacted an underground electric utility line., This event caused a transformer along the same utility line to blow prompting PSEG-LI to cut the power to the OU-5 plant. Power was restored to the plant on February 18, 2025 and system was fully restarted that same day.

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 February, the plant discharge was directed solely to Recharge Basin 1.

The total volume of treated water discharged from ~0800 hours January 31, 2025 to ~0800 hours February 28, 2025 was approximately 25,098,000 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 February 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 February 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 February 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 February 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 February 4, 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 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 February 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 February sampling activities included:

- The February PD data was processed and submitted.
- Monthly system sampling was completed on February 4, 2025.
- Quarterly groundwater sampling and groundwater level measurements were completed in early February of 2025.

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

The February 2025 average pH measurement was 7.06 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 February 2025 readings from the AS tower are provided in **Table 10**.

Other routine data collected in February 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 reactivated in December 2024.
- 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, however, it continues to experience randomized shut downs. Upon further testing, GES plans to replace the motor starter and relay overload at the controls of RW-4.
- 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 meterhousing. There was a thick coating of iron salt deposits on the housing and impeller. Both RW-1 and RW-2 are isolated from the process pipeline throughout the operating period. On a monthly basis, the isolation valves are actuated open and pumps are run for 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

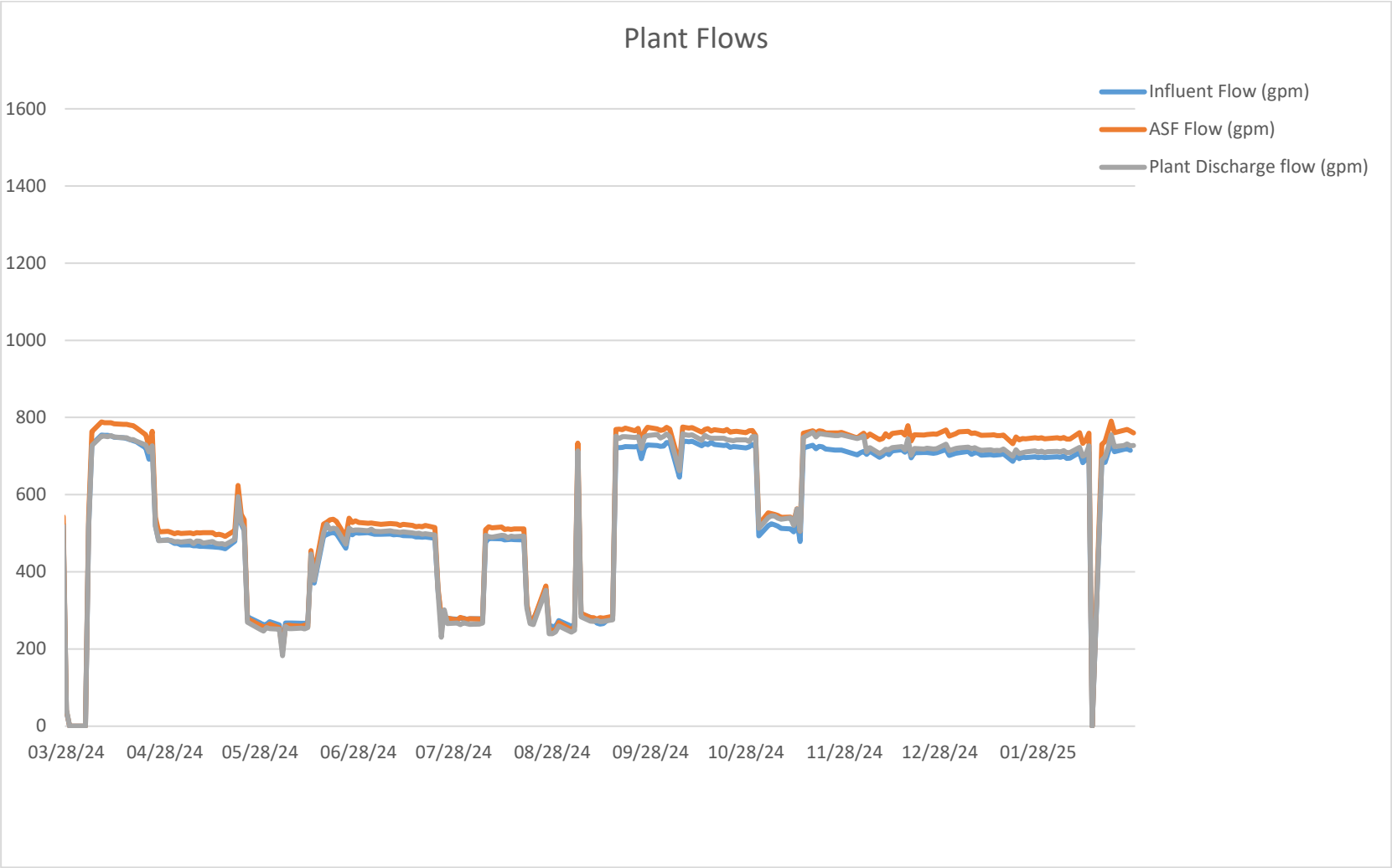
- Well field, and recharge basin inspections continue. Quarterly groundskeeping activities are performed to clear vegetation and poison ivy from around all well fields in anticipation of quarterly groundwater sampling events. In addition, the entrance to Recharge Basin 33 is maintained for ease of access.

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
The RW Discharge Manifold integrity is suspect	The condition of the various devices on the RW discharge manifold are suspect. The Air Vent valve in the vault on the N-side of the 6th fairway is leaking from the influent nipple. The shut-off valve was closed and the device isolated. The air-vent valve in the vault to the east of the 6th green is leaking. The shut-off valve was closed and the device isolated. The manifold employs isolation, venting, and drain valves as well as other devices. Along the path of the manifold are vaults which house some of these devices. These vaults need to be accessed, pumped out, and the devices tested. Two isolation valves were closed between RW-1 and RW-3. These valves seemed to hold. Perform a reassessment of the RW Discharge Manifold infrastructure relative to condition of key components.	Plant staff and outside contractors	Possible shutdown	May require a Confined Space Entry (CSE)

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
AS Tower main drain valve is not controlled	The valve does not respond to manipulation of its actuator. This valve should be replaced. No further action is planned at this time.	Operator	Plant will need to be shut down to change out the valve	None
OU4 fire alarm system is not functioning Central monitoring of the fire alarm system or fire suppression system does not exist OU4 electrical system has been unstable	The Nassau County Fire Code indicates that the sprinkler system must have central monitoring for flow and valve tampering. The fire alarm system needs to be replaced and centrally monitored. Several contractors have been at the site to propose options for the system. BK Fire installed central monitoring on the sprinkler system. Both are offline as the sprinkler system will remain drained until the HVAC system is repaired. Certain OU4 lights currently create a large amount of noise in the fan box within the control room. The southern lights flicker and then die including the emergency system. OU4 is currently being planned for demolition.	Plant operator, Electrical Engineer (EE) and outside vender	None at this time	Fire code violations. High altitude tasks, safety code violations
The float controls for the PFF pump system have intermittently shorted out causing the system to not properly control the pumping operation	The wiring of the pump control system is connected below grade. The junction box in the wet well is thought to be filled with water creating a problem with the float switches to control relay wiring. The box cannot be opened without damage to it and the conduit. This appears to have been a longstanding problem, as when switches have been replaced in the past, they were spliced outside the box.	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
	The output from the W-2 relay was moved to the output for the W-1 relay. This has stopped the short cycling. The control wiring should be changed and moved above grade. Currently the second splices to the floats are above ground outside the vault.			
PFF Pump Reliability	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. It is recommended that replacement pumps be specified and PFF P1 be replaced in the event that PFF P2 or PFF P3 fail.	Ramboll Engineers (design), Outside contractors (installation)	Less water being treated if another PFF pump fails.	To be determined
As the ASF pumps cycle off/on, the check valves have started to slam closed. When reactivating, the motor starter contact is rather violent. Both actions tend to rattle the piping and fixtures	There is no available literature regarding the check valves, so the exact description of their functioning parts is to be determined. A softer start/stop control may fix this issue. This will need further investigation. Soft-start equipment and variable frequency controls were discussed.	Plant operator and EE support	If replacement or repairs are necessary, a plant shutdown will be required as the units can- not be isolated	To be determined
The flowmeters for system flow, ASF flow and plant discharge are out of sync with the flow meters on the recovery wells	While the ASF flow meter is the most out of line, it is plumbed correctly. The influent system flow meter and the plant discharge flow meters are piped incorrectly. The same style of relay is used to count pulses, but the meters have not been calibrated. The while the flow meters for the system show differences between recorded flows, they are not significant enough to warrant action at this	EE support	To be determined	none

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
January 2025	715	1,029,065	31,901,000	0	44,640
February 2025	717	896,357	25,098,000	5,346	34,980

Acronyms: gal – gallons gpm – gallons per minute,

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

System was down between February 14 and February 18, 2025 due to electrical service interruption and line disconnect due to transformer line short circuit due to hit underground power line at the next door property (5,346 minutes total downtime).

Table 3
Plant Daily Totalizer Readings

February 2025 Flows						
Plant Influent			Plant Discharge		RW Discharge	
Date	Volume	Avg. Flow	Volume	Avg. Flow	Volume	Avg. Flow
01/31/25	-	744	-	709	-	696
02/03/25	3,220,000	745	3,072,000	711	3,011,000	697
02/04/25	1,076,000	747	1,025,000	712	1,005,000	698
02/05/25	1,073,000	745	1,023,000	710	1,003,000	697
02/06/25	1,077,000	748	1,028,000	714	1,008,000	700
02/07/25	1,071,000	744	1,020,000	708	999,000	694
02/10/25	3,215,000	744	3,065,000	709	3,001,000	695
02/11/25	1,095,000	760	1,040,000	722	1,021,000	709
02/12/25	1,055,000	733	1,007,000	699	983,000	683
02/13/25	1,069,000	742	1,015,000	705	996,000	692
02/14/25	1,093,000	759	1,046,000	726	1,022,000	710
02/17/25	0	0	0	0	0	0
02/18/25	582,000	746	555,000	712	543,000	696
02/19/25	797,000	738	753,000	697	738,000	683
02/20/25	1,098,000	763	1,038,000	721	1,019,000	708
02/21/25	1,138,000	790	1,087,000	755	1,060,000	736
02/24/25	3,287,000	761	3,131,000	725	3,073,000	711
02/25/25	1,104,000	767	1,047,000	727	1,033,000	717
02/26/25	1,107,000	769	1,053,000	731	1,035,000	719
02/27/25	1,101,000	765	1,046,000	726	1,029,000	715
02/28/25	1,094,000	760	1,047,000	727	1,023,000	710
February Total Plant Influent (Gal)			26,352,000			
February Total Plant Effluent (Gal)			25,098,000			
February Total RW Discharge (Gal)			24,602,000			

Acronyms: gal - gallons

gpm – gallons per minute

Table 4
Pump System Flow Readings

February 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	34,980	244	305,321	8,549,000
RW-4	34,980	257	320,536	8,975,000
RW-5	34,980	236	294,357	8,242,000
RW Totals	34,980	703	878,643	24,602,000
Plant Influent	34,980	753	941,143	26,352,000
Plant Effluent	34,980	717	896,357	25,098,000

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

The treatment process was online 24 days in February 2025 with 5,346 minutes of downtime due to an electrical service interruption.

* 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
February 4, 2025

Parameters	Discharge Limitations (SPDES)	Units	Results
<i>pH (range)</i>	6.5 – 8.5	<i>su</i>	7.06
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
J – Estimated value U – Analyzed but not detected NL – Monitor only NS – Not sampled SPDES – State Pollutant Discharge Elimination System ug/l – micrograms per liter ng/l – nanograms per liter mg/l – milligrams per liter Discharge limitations updates as per the water discharge permit. Note: Parameters shaded in gray are analyzed quarterly with results generally being provided March, June, October, and December.			

Table 7
Emerging Contaminant Analytical Results
February 4, 2025

Parameters	Guidance Values	Units	Influent Results	Effluent Results
PFOA	6.7 ¹	ng/l	45	44
PFOS	2.7 ¹	ng/l	17	17
1,4-Dioxane	0.35 ¹	ug/l	20	20
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) N0. 1.1.1.				

Table 8
Effluent pH and Temperature Readings

Date	pH (su)	Temp (° C)
02/05/25	7.04	15.9
02/10/25	7.12	12.5
02/19/25	6.96	12.5
02/28/25	7.11	14.8
February Average	7.06 su	13.9 °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

Plant Discharge Monthly Average pH Reading

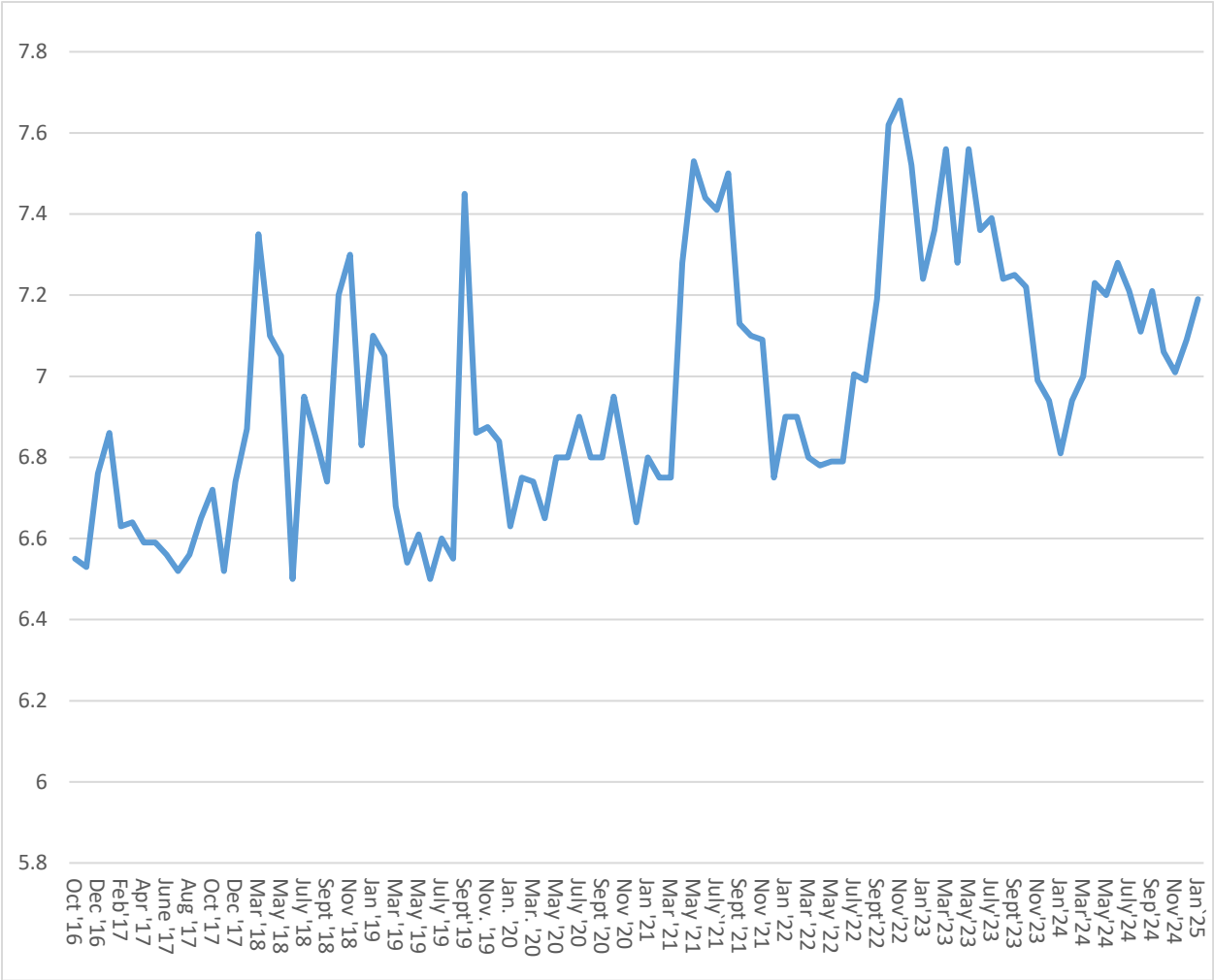


Table 10
AS Tower Air Monitoring Readings

Recorded Date	Port B (ppm)
02/05/25	0.0
02/10/25	0.1
02/21/25	0.0
02/26/25	0.1

ATTACHMENT 1
MONTHLY O&M SAMPLING ANALYTICAL RESULTS –FEBRUARY 4, 2025



February 19, 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: 25B0197

Enclosed are results of analyses for samples as received by the laboratory on February 5, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Kyle Murray".

Kyle A. Murray
Project Manager

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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: 2/19/2025

PURCHASE ORDER NUMBER: 151811

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25B0197

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-00-020425	25B0197-01	Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
PD-CP-01-020425	25B0197-02	Water		Draft Method 1633 SW-846 8260D SW-846 8270E	
ASF-CP-00-020425	25B0197-03	Water		Draft Method 1633 SW-846 8270E	
ASF-CP-01-020425	25B0197-04	Water		Draft Method 1633 SW-846 8270E	
TB-020425	25B0197-05	Trip Blank Water		SW-846 8260D	



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:**

PF-17
Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:**11Cl-PF3OUdS (F53B Major)**

B398340-BLK1

13C2-PFDoA

B398340-BLK1

13C3-HFPO-DA

B398340-BLK1

13C3-PFBS

B398340-BLK1

13C3-PFHxS

B398340-BLK1

13C4-PFBA

B398340-BLK1

13C4-PFHpA

B398340-BLK1

13C5-PFHxA

B398340-BLK1

13C5-PFPeA

B398340-BLK1

13C6-PFDA

B398340-BLK1

13C7-PFUnA

B398340-BLK1

13C8-PFOA

B398340-BLK1

13C8-PFOS

B398340-BLK1

13C8-PFOSA

B398340-BLK1

13C9-PFNA

B398340-BLK1

2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTI

B398340-BLK1

3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTC

B398340-BLK1

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

B398340-BLK1

4,8-Dioxa-3H-perfluorononanoic acid (ADONA)

B398340-BLK1

9Cl-PF3ONS (F53B Minor)

B398340-BLK1

D3-NMeFOSA

B398340-BLK1

D5-NEtFOSA

B398340-BLK1

D5-NEtFOSAA

B398340-BLK1

D7-NMeFOSE

B398340-BLK1

D9-NEtFOSE

B398340-BLK1

Hexafluoropropylene oxide dimer acid (HFPO-DA)

B398340-BLK1

N-EtFOSAA (NEtFOSAA)

B398340-BLK1

N-ethyl perfluorooctanesulfonamide (NEtFOSA)

B398340-BLK1

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

N-ethylperfluorooctanesulfonamidoethanol (NEtFO)
B398340-BLK1

N-methyl perfluorooctanesulfonamide (NMeFOSA)
B398340-BLK1

N-methylperfluorooctanesulfonamidoethanol(NMeF)
B398340-BLK1

Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)
B398340-BLK1

Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)
B398340-BLK1

Perfluoro-3-methoxypropanoic acid (PFMPA)
B398340-BLK1

Perfluoro-4-methoxybutanoic acid (PFMBA)
B398340-BLK1

Perfluorobutanesulfonic acid (PFBS)
B398340-BLK1

Perfluorobutanoic acid (PFBA)
B398340-BLK1

Perfluorodecanesulfonic acid (PFDS)
B398340-BLK1

Perfluorodecanoic acid (PFDA)
B398340-BLK1

Perfluorododecanesulfonic acid (PFDoS)
B398340-BLK1

Perfluorododecanoic acid (PFDoA)
B398340-BLK1

Perfluoroheptanesulfonic acid (PFHpS)
B398340-BLK1

Perfluoroheptanoic acid (PFHpA)
B398340-BLK1

Perfluorohexanesulfonic acid (PFHxS)
B398340-BLK1

Perfluorohexanoic acid (PFHxA)
B398340-BLK1

Perfluorononanesulfonic acid (PFNS)
B398340-BLK1

Perfluorononanoic acid (PFNA)
B398340-BLK1

Perfluorooctanesulfonamide (PFOSA)
B398340-BLK1

Perfluorooctanesulfonic acid (PFOS)
B398340-BLK1

Perfluorooctanoic acid (PFOA)
B398340-BLK1

Perfluoropentanesulfonic acid (PFPeS)
B398340-BLK1

Perfluoropentanoic acid (PFPeA)
B398340-BLK1

Perfluorotridecanoic acid (PFTrDA)
B398340-BLK1

Perfluoroundecanoic acid (PFUnA)
B398340-BLK1

SW-846 8260D

Qualifications:

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

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:**1,2,4-Trichlorobenzene**B398352-BS1

MS-07A2

Matrix spike and spike duplicate recovery is outside of control limits on the low side.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

25B0197-01[PD-CP-00-020425], B398352-MS1, B398352-MSD1

1,2,4-Trichlorobenzene

25B0197-01[PD-CP-00-020425], B398352-MS1, B398352-MSD1

Naphthalene25B0197-01[PD-CP-00-020425], B398352-MS1, B398352-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBCP)**

B398352-MS1

BromoformB398352-MS1

R-05

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

Analyte & Samples(s) Qualified:**1,2,3-Trichloropropane**25B0197-01[PD-CP-00-020425], 25B0197-02[PD-CP-01-020425], 25B0197-05[TB-020425], B398352-BLK1, B398352-BS1, B398352-BSD1, B398352-MS1, B398352-MSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

B398352-MS1, B398352-MSD1

NaphthaleneB398352-MS1, B398352-MSD1

V-05

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

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

25B0197-01[PD-CP-00-020425], 25B0197-02[PD-CP-01-020425], 25B0197-05[TB-020425], B398352-BLK1, B398352-BS1, B398352-BSD1, B398352-MS1, B398352-MSD1, S117818-CCV1

1,2,4-Trichlorobenzene

25B0197-01[PD-CP-00-020425], 25B0197-02[PD-CP-01-020425], 25B0197-05[TB-020425], B398352-BLK1, B398352-BS1, B398352-BSD1, B398352-MS1, B398352-MSD1, S117818-CCV1

Naphthalene

25B0197-01[PD-CP-00-020425], 25B0197-02[PD-CP-01-020425], 25B0197-05[TB-020425], B398352-BLK1, B398352-BS1, B398352-BSD1, B398352-MS1, B398352-MSD1, S117818-CCV1

SW-846 8270E**Qualifications:**

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**

25B0197-01[PD-CP-00-020425], 25B0197-02[PD-CP-01-020425], B398360-BLK1, B398360-BS1, B398360-BSD1

**R-05**

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

Analyte & Samples(s) Qualified:**2,3,4,6-Tetrachlorophenol**

B398360-BS1, B398360-BSD1

2,4,5-Trichlorophenol

B398360-BS1, B398360-BSD1

2-Chlorophenol

B398360-BS1, B398360-BSD1

2-Nitrophenol

B398360-BS1, B398360-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**

B398360-BLK1, B398360-BS1, B398360-BSD1, S117895-CCV1, S117913-CCV1

Di-n-octylphthalate

B398360-BLK1, B398360-BS1, B398360-BSD1, S117895-CCV1, S117913-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**

B398360-BLK1, B398360-BS1, B398360-BSD1, S117895-CCV1, S117913-CCV1, S117929-ICV1

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.

Meghan E. Kelley
Reporting Specialist

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-00-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-01

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	2/6/25	2/7/25 12:30	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Naphthalene	ND	2.0	µg/L	1	V-05, MS-07A2	SW-846 8260D	2/6/25	2/7/25 12:30	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	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: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-00-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-01

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	2/6/25	2/7/25 12:30	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05, MS-07A2	SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05, MS-07A2	SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1	R-05	SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:30	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	102	70-130						2/7/25 12:30	
Toluene-d8	99.8	70-130						2/7/25 12:30	
4-Bromofluorobenzene	93.4	70-130						2/7/25 12:30	

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: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-00-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-01

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	2/6/25	2/10/25 17:14	BGL
Atrazine	ND	18	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Benzaldehyde	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Caprolactam	ND	8.9	µg/L	1	L-04	SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Acenaphthene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Acenaphthylene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Acetophenone	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Aniline	ND	18	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Anthracene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Benzo(a)anthracene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Benzo(a)pyrene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Benzo(b)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Benzo(g,h,i)perylene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Benzo(k)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Bis(2-chloroethoxy)methane	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Bis(2-chloroethyl)ether	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2,2'-oxybis(1-Chloropropane)	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Bis(2-Ethylhexyl)phthalate	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
4-Bromophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Butylbenzylphthalate	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Carbazole	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
4-Chloroaniline	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
4-Chloro-3-methylphenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2-Chloronaphthalene	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2-Chlorophenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
4-Chlorophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Chrysene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Dibenz(a,h)anthracene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Di-n-butylphthalate	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
3,3-Dichlorobenzidine	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2,4-Dichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Diethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2,4-Dimethylphenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Dimethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2,4-Dinitrophenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2,4-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2,6-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Di-n-octylphthalate	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Fluorene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Hexachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	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: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-00-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-01

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	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Hexachlorocyclopentadiene	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Hexachloroethane	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Isophorone	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
1-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
3/4-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Naphthalene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
3-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
4-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Nitrobenzene	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2-Nitrophenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
4-Nitrophenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
N-Nitrosodi-n-propylamine	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Pentachlorophenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Phenanthrene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Phenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Pyrene	ND	4.5	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
Pyridine	ND	18	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
1,2,4,5-Tetrachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2,4,5-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL
2,4,6-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:14	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	50.7	15-110	2/10/25 17:14
Phenol-d6	36.6	15-110	2/10/25 17:14
Nitrobenzene-d5	91.7	30-130	2/10/25 17:14
2-Fluorobiphenyl	88.4	30-130	2/10/25 17:14
2,4,6-Tribromophenol	87.3	15-110	2/10/25 17:14
p-Terphenyl-d14	105	30-130	2/10/25 17:14



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: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-00-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-01

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	20	0.19	µg/L	1		SW-846 8270E	2/6/25	2/12/25 0:20	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		29.2	15-110				2/12/25 0:20		

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: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-00-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-01

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)	40	6.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluoropentanoic acid (PFPeA)	24	3.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorohexanoic acid (PFHxA)	27	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluoroheptanoic acid (PFHpA)	13	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorooctanoic acid (PFOA)	44	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorononanoic acid (PFNA)	34	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorobutanesulfonic acid (PFBS)	3.7	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluoropentanesulfonic acid (PFPeS)	3.0	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorohexanesulfonic acid (PFHxS)	8.9	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorooctanesulfonic acid (PFOS)	17	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
N-EtFOSAA (NEtFOSAA)	1.8	1.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
11Cl-PF3OUs (F53B Major)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.5	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	38	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-00-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-01

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	3.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	ng/L	1		Draft Method 1633	2/7/25	2/10/25 23:52	AMS
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	90.3	5-130						2/10/25 23:52	
13C5-PFPeA	84.9	40-130						2/10/25 23:52	
13C5-PFHxA	88.7	40-130						2/10/25 23:52	
13C4-PFHpA	92.7	40-130						2/10/25 23:52	
13C8-PFOA	96.2	40-130						2/10/25 23:52	
13C9-PFNA	89.5	40-130						2/10/25 23:52	
13C6-PFDA	87.5	40-130						2/10/25 23:52	
13C7-PFUnA	85.0	30-130						2/10/25 23:52	
13C2-PFDoA	82.5	10-130						2/10/25 23:52	
13C2-PFTeDA	73.4	10-130						2/10/25 23:52	
13C3-PFBS	92.7	40-135						2/10/25 23:52	
13C3-PFHxS	90.0	40-130						2/10/25 23:52	
13C8-PFOS	87.1	40-130						2/10/25 23:52	
13C2-4:2FTS	136	40-200						2/10/25 23:52	
13C2-6:2FTS	79.4	40-200						2/10/25 23:52	
13C2-8:2FTS	63.3	40-300						2/10/25 23:52	
13C8-PFOSA	88.0	40-130						2/10/25 23:52	
D3-NMeFOSA	80.0	10-130						2/10/25 23:52	
D5-NEtFOSA	75.4	10-130						2/10/25 23:52	
D3-NMeFOSAA	83.0	40-170						2/10/25 23:52	
D5-NEtFOSAA	84.9	25-135						2/10/25 23:52	
D7-NMeFOSE	73.6	10-130						2/10/25 23:52	
D9-NEtFOSE	72.3	10-130						2/10/25 23:52	
13C3-HFPO-DA	85.3	40-130						2/10/25 23:52	

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: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-01-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-02

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	2/6/25	2/7/25 12:57	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/6/25	2/7/25 12:57	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	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: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-01-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-02

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	2/6/25	2/7/25 12:57	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1	R-05	SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 12:57	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	104	70-130						2/7/25 12:57	
Toluene-d8	100	70-130						2/7/25 12:57	
4-Bromofluorobenzene	87.6	70-130						2/7/25 12:57	

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: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-01-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-02

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	2/6/25	2/10/25 17:35	BGL
Atrazine	ND	18	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Benzaldehyde	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Caprolactam	ND	8.8	µg/L	1	L-04	SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Acenaphthene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Acenaphthylene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Acetophenone	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Aniline	ND	18	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Anthracene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Benzo(a)anthracene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Benzo(a)pyrene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Benzo(b)fluoranthene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Benzo(g,h,i)perylene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Benzo(k)fluoranthene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Bis(2-chloroethoxy)methane	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Bis(2-chloroethyl)ether	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2,2'-oxybis(1-Chloropropane)	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Bis(2-Ethylhexyl)phthalate	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
4-Bromophenylphenylether	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Butylbenzylphthalate	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Carbazole	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
4-Chloroaniline	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
4-Chloro-3-methylphenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2-Chloronaphthalene	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2-Chlorophenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
4-Chlorophenylphenylether	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Chrysene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Dibenz(a,h)anthracene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Dibenzofuran	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Di-n-butylphthalate	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
3,3-Dichlorobenzidine	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2,4-Dichlorophenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Diethylphthalate	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2,4-Dimethylphenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Dimethylphthalate	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2,4-Dinitrophenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2,4-Dinitrotoluene	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2,6-Dinitrotoluene	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Di-n-octylphthalate	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Fluoranthene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Fluorene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Hexachlorobenzene	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	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: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-01-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-02

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	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Hexachlorocyclopentadiene	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Hexachloroethane	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Indeno(1,2,3-cd)pyrene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Isophorone	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
1-Methylnaphthalene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2-Methylnaphthalene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2-Methylphenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
3/4-Methylphenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Naphthalene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2-Nitroaniline	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
3-Nitroaniline	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
4-Nitroaniline	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Nitrobenzene	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2-Nitrophenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
4-Nitrophenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
N-Nitrosodi-n-propylamine	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Pentachlorophenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Phenanthrene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Phenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Pyrene	ND	4.4	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
Pyridine	ND	18	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
1,2,4,5-Tetrachlorobenzene	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2,4,5-Trichlorophenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL
2,4,6-Trichlorophenol	ND	8.8	µg/L	1		SW-846 8270E	2/6/25	2/10/25 17:35	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	50.6	15-110	2/10/25 17:35
Phenol-d6	33.0	15-110	2/10/25 17:35
Nitrobenzene-d5	85.1	30-130	2/10/25 17:35
2-Fluorobiphenyl	87.4	30-130	2/10/25 17:35
2,4,6-Tribromophenol	81.6	15-110	2/10/25 17:35
p-Terphenyl-d14	110	30-130	2/10/25 17:35



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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-01-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-02

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	20	0.19	µg/L	1		SW-846 8270E	2/6/25	2/12/25 0:40	GJB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
1,4-Dioxane-d8	28.6	15-110						2/12/25 0:40	

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: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-01-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-02

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)	41	6.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluoropentanoic acid (PFPeA)	21	3.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorohexanoic acid (PFHxA)	27	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluoroheptanoic acid (PFHpA)	13	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorooctanoic acid (PFOA)	44	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorononanoic acid (PFNA)	33	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorobutanesulfonic acid (PFBS)	3.4	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluoropentanesulfonic acid (PFPeS)	3.0	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorohexanesulfonic acid (PFHxS)	8.1	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorooctanesulfonic acid (PFOS)	16	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
N-EtFOSAA (NEtFOSAA)	1.9	1.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
11Cl-PF3OUDS (F53B Major)	ND	6.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.5	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25B0197

Date Received: 2/5/2025

Field Sample #: PD-CP-01-020425

Sampled: 2/4/2025 11:00

Sample ID: 25B0197-02

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	2/7/25	2/11/25 0:01	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:01	AMS
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	90.0	5-130						2/11/25 0:01	
13C5-PFPeA	84.1	40-130						2/11/25 0:01	
13C5-PFHxA	87.9	40-130						2/11/25 0:01	
13C4-PFHpA	89.2	40-130						2/11/25 0:01	
13C8-PFOA	91.8	40-130						2/11/25 0:01	
13C9-PFNA	87.2	40-130						2/11/25 0:01	
13C6-PFDA	90.9	40-130						2/11/25 0:01	
13C7-PFUnA	84.0	30-130						2/11/25 0:01	
13C2-PFDoA	78.0	10-130						2/11/25 0:01	
13C2-PFTeDA	73.1	10-130						2/11/25 0:01	
13C3-PFBS	91.5	40-135						2/11/25 0:01	
13C3-PFHxS	86.9	40-130						2/11/25 0:01	
13C8-PFOS	91.3	40-130						2/11/25 0:01	
13C2-4:2FTS	127	40-200						2/11/25 0:01	
13C2-6:2FTS	72.3	40-200						2/11/25 0:01	
13C2-8:2FTS	65.4	40-300						2/11/25 0:01	
13C8-PFOSA	89.9	40-130						2/11/25 0:01	
D3-NMeFOSA	77.6	10-130						2/11/25 0:01	
D5-NEtFOSA	77.1	10-130						2/11/25 0:01	
D3-NMeFOSAA	81.9	40-170						2/11/25 0:01	
D5-NEtFOSAA	84.9	25-135						2/11/25 0:01	
D7-NMeFOSE	74.1	10-130						2/11/25 0:01	
D9-NEtFOSE	72.5	10-130						2/11/25 0:01	
13C3-HFPO-DA	84.7	40-130						2/11/25 0:01	



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: 25B0197

Date Received: 2/5/2025

Field Sample #: ASF-CP-00-020425

Sampled: 2/4/2025 11:30

Sample ID: 25B0197-03

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	20	0.19	µg/L	1		SW-846 8270E	2/6/25	2/12/25 0:59	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		28.0	15-110					2/12/25 0:59	

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: 25B0197

Date Received: 2/5/2025

Field Sample #: ASF-CP-00-020425

Sampled: 2/4/2025 11:30

Sample ID: 25B0197-03

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)	33	5.8	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluoropentanoic acid (PFPeA)	21	2.9	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorohexanoic acid (PFHxA)	26	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluoroheptanoic acid (PFHpA)	13	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorooctanoic acid (PFOA)	45	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorononanoic acid (PFNA)	34	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorodecanoic acid (PFDA)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorobutanesulfonic acid (PFBS)	3.4	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluoropentanesulfonic acid (PFPeS)	2.8	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorohexanesulfonic acid (PFHxS)	8.6	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorooctanesulfonic acid (PFOS)	16	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.8	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.8	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.8	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
N-EtFOSAA (NEtFOSAA)	2.2	1.4	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	14	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	14	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.8	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.8	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
9Cl-PF3ONS (F53B Minor)	ND	5.8	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
11Cl-PF3OUDS (F53B Major)	ND	5.8	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.2	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	36	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	36	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.9	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25B0197

Date Received: 2/5/2025

Field Sample #: ASF-CP-00-020425

Sampled: 2/4/2025 11:30

Sample ID: 25B0197-03

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	2/7/25	2/11/25 0:11	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	ng/L	1		Draft Method 1633	2/7/25	2/11/25 0:11	AMS
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	87.7	5-130						2/11/25 0:11	
13C5-PFPeA	84.4	40-130						2/11/25 0:11	
13C5-PFHxA	88.9	40-130						2/11/25 0:11	
13C4-PFHpA	91.5	40-130						2/11/25 0:11	
13C8-PFOA	89.1	40-130						2/11/25 0:11	
13C9-PFNA	82.4	40-130						2/11/25 0:11	
13C6-PFDA	77.6	40-130						2/11/25 0:11	
13C7-PFUnA	79.1	30-130						2/11/25 0:11	
13C2-PFDoA	66.7	10-130						2/11/25 0:11	
13C2-PFTeDA	46.2	10-130						2/11/25 0:11	
13C3-PFBS	93.0	40-135						2/11/25 0:11	
13C3-PFHxS	85.4	40-130						2/11/25 0:11	
13C8-PFOS	84.8	40-130						2/11/25 0:11	
13C2-4:2FTS	116	40-200						2/11/25 0:11	
13C2-6:2FTS	70.3	40-200						2/11/25 0:11	
13C2-8:2FTS	64.2	40-300						2/11/25 0:11	
13C8-PFOSA	80.5	40-130						2/11/25 0:11	
D3-NMeFOSA	71.0	10-130						2/11/25 0:11	
D5-NEtFOSA	61.5	10-130						2/11/25 0:11	
D3-NMeFOSAA	76.7	40-170						2/11/25 0:11	
D5-NEtFOSAA	71.2	25-135						2/11/25 0:11	
D7-NMeFOSE	43.0	10-130						2/11/25 0:11	
D9-NEtFOSE	30.7	10-130						2/11/25 0:11	
13C3-HFPO-DA	85.5	40-130						2/11/25 0:11	



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: 25B0197

Date Received: 2/5/2025

Field Sample #: ASF-CP-01-020425

Sampled: 2/4/2025 11:30

Sample ID: 25B0197-04

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	20	0.19	µg/L	1		SW-846 8270E	2/6/25	2/12/25 1:19	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		28.4	15-110					2/12/25 1:19	

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: 25B0197

Date Received: 2/5/2025

Field Sample #: ASF-CP-01-020425

Sampled: 2/4/2025 11:30

Sample ID: 25B0197-04

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)	42	5.8	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluoropentanoic acid (PFPeA)	25	2.9	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorohexanoic acid (PFHxA)	29	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluoroheptanoic acid (PFHpA)	14	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorooctanoic acid (PFOA)	45	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorononanoic acid (PFNA)	33	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorodecanoic acid (PFDA)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorobutanesulfonic acid (PFBS)	3.8	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluoropentanesulfonic acid (PFPeS)	2.8	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorohexanesulfonic acid (PFHxS)	8.2	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorooctanesulfonic acid (PFOS)	17	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.8	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.8	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.8	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
N-EtFOSAA (NEtFOSAA)	1.7	1.4	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	14	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	14	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.8	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.8	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
9Cl-PF3ONS (F53B Minor)	ND	5.8	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
11Cl-PF3OUDS (F53B Major)	ND	5.8	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.2	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	36	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	36	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.9	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25B0197

Date Received: 2/5/2025

Field Sample #: ASF-CP-01-020425

Sampled: 2/4/2025 11:30

Sample ID: 25B0197-04

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	2/12/25	2/15/25 17:02	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	ng/L	1		Draft Method 1633	2/12/25	2/15/25 17:02	AMS
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	89.8	5-130						2/15/25 17:02	
13C5-PFPeA	85.1	40-130						2/15/25 17:02	
13C5-PFHxA	86.4	40-130						2/15/25 17:02	
13C4-PFHpA	76.3	40-130						2/15/25 17:02	
13C8-PFOA	101	40-130						2/15/25 17:02	
13C9-PFNA	81.1	40-130						2/15/25 17:02	
13C6-PFDA	75.3	40-130						2/15/25 17:02	
13C7-PFUnA	68.7	30-130						2/15/25 17:02	
13C2-PFDoA	55.4	10-130						2/15/25 17:02	
13C2-PFTeDA	45.6	10-130						2/15/25 17:02	
13C3-PFBS	78.0	40-135						2/15/25 17:02	
13C3-PFHxS	83.9	40-130						2/15/25 17:02	
13C8-PFOS	78.1	40-130						2/15/25 17:02	
13C2-4:2FTS	119	40-200						2/15/25 17:02	
13C2-6:2FTS	75.2	40-200						2/15/25 17:02	
13C2-8:2FTS	52.4	40-300						2/15/25 17:02	
13C8-PFOSA	63.7	40-130						2/15/25 17:02	
D3-NMeFOSA	53.8	10-130						2/15/25 17:02	
D5-NEtFOSA	46.3	10-130						2/15/25 17:02	
D3-NMeFOSAA	61.1	40-170						2/15/25 17:02	
D5-NEtFOSAA	60.2	25-135						2/15/25 17:02	
D7-NMeFOSE	44.5	10-130						2/15/25 17:02	
D9-NEtFOSE	37.8	10-130						2/15/25 17:02	
13C3-HFPO-DA	81.1	40-130						2/15/25 17:02	

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: 25B0197

Date Received: 2/5/2025

Field Sample #: TB-020425

Sampled: 2/4/2025 00:00

Sample ID: 25B0197-05

Sample Matrix: Trip Blank 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	2/6/25	2/7/25 11:37	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	2/6/25	2/7/25 11:37	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	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: 25B0197

Date Received: 2/5/2025

Field Sample #: TB-020425

Sampled: 2/4/2025 00:00

Sample ID: 25B0197-05

Sample Matrix: Trip Blank 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	2/6/25	2/7/25 11:37	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	V-05	SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	V-05	SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1	R-05	SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	2/6/25	2/7/25 11:37	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	103	70-130							
Toluene-d8	98.8	70-130							
4-Bromofluorobenzene	88.7	70-130							

Sample Extraction Data**Prep Method:EPA 1633 Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25B0197-01 [PD-CP-00-020425]	B398340	533	4.00	02/07/25
25B0197-02 [PD-CP-01-020425]	B398340	536	4.00	02/07/25
25B0197-03 [ASF-CP-00-020425]	B398340	554	4.00	02/07/25

Prep Method:EPA 1633 Analytical Method:Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25B0197-04RE1 [ASF-CP-01-020425]	B398628	554	4.00	02/12/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25B0197-01 [PD-CP-00-020425]	B398352	5	5.00	02/06/25
25B0197-02 [PD-CP-01-020425]	B398352	5	5.00	02/06/25
25B0197-05 [TB-020425]	B398352	5	5.00	02/06/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25B0197-01 [PD-CP-00-020425]	B398360	112	1.00	02/06/25
25B0197-02 [PD-CP-01-020425]	B398360	113	1.00	02/06/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25B0197-01 [PD-CP-00-020425]	B398373	1040	1.00	02/06/25
25B0197-02 [PD-CP-01-020425]	B398373	1050	1.00	02/06/25
25B0197-03 [ASF-CP-00-020425]	B398373	1050	1.00	02/06/25
25B0197-04 [ASF-CP-01-020425]	B398373	1050	1.00	02/06/25

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 B398352 - SW-846 5030B

Blank (B398352-BLK1)

Prepared: 02/06/25 Analyzed: 02/07/25

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							
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							
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							V-05
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							V-05
1,2,4-Trichlorobenzene	ND	1.0	µg/L							V-05
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B398352 - SW-846 5030B										
Blank (B398352-BLK1)				Prepared: 02/06/25 Analyzed: 02/07/25						
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							R-05
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	25.7		µg/L	25.00		103	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.00		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	21.9		µg/L	25.00		87.7	70-130			
LCS (B398352-BS1)				Prepared: 02/06/25 Analyzed: 02/07/25						
Acetone	103	50	µg/L	100.0		103	70-160			†
Benzene	10.8	1.0	µg/L	10.00		108	70-130			
Bromochloromethane	11.6	1.0	µg/L	10.00		116	70-130			
Bromodichloromethane	10.2	0.50	µg/L	10.00		102	70-130			
Bromoform	8.11	1.0	µg/L	10.00		81.1	70-130			
Bromomethane	10.9	2.0	µg/L	10.00		109	40-160			†
2-Butanone (MEK)	104	20	µg/L	100.0		104	40-160			†
n-Butylbenzene	10.9	1.0	µg/L	10.00		109	70-130			
sec-Butylbenzene	11.4	1.0	µg/L	10.00		114	70-130			
tert-Butylbenzene	11.3	1.0	µg/L	10.00		113	70-130			
Carbon Disulfide	111	5.0	µg/L	100.0		111	70-130			
Carbon Tetrachloride	10.3	5.0	µg/L	10.00		103	70-130			
Chlorobenzene	10.0	1.0	µg/L	10.00		100	70-130			
Chlorodibromomethane	9.34	0.50	µg/L	10.00		93.4	70-130			
Chloroethane	11.2	2.0	µg/L	10.00		112	70-130			
Chloroform	10.4	2.0	µg/L	10.00		104	70-130			
Chloromethane	9.20	2.0	µg/L	10.00		92.0	40-160			†
Cyclohexane	10.6	5.0	µg/L	10.00		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.36	5.0	µg/L	10.00		83.6	70-130			
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.00		100	70-130			
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.00		101	70-130			
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.00		104	70-130			
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.00		101	70-130			
Dichlorodifluoromethane (Freon 12)	9.88	2.0	µg/L	10.00		98.8	40-160			†
1,1-Dichloroethane	10.6	1.0	µg/L	10.00		106	70-130			
1,2-Dichloroethane	10.5	1.0	µg/L	10.00		105	70-130			
1,1-Dichloroethylene	10.2	1.0	µg/L	10.00		102	70-130			
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.00		108	70-130			
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.00		100	70-130			
1,2-Dichloropropane	10.6	1.0	µg/L	10.00		106	70-130			
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.00		102	70-130			
trans-1,3-Dichloropropene	10.7	0.50	µg/L	10.00		107	70-130			
Ethylbenzene	10.6	1.0	µg/L	10.00		106	70-130			
2-Hexanone (MBK)	91.4	10	µg/L	100.0		91.4	70-160			†
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.00		103	70-130			
p-Isopropyltoluene (p-Cymene)	11.6	1.0	µg/L	10.00		116	70-130			
Methyl Acetate	11.1	1.0	µg/L	10.00		111	70-130			
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.00		102	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B398352 - SW-846 5030B

Prepared: 02/06/25 Analyzed: 02/07/25										
LCS (B398352-BS1)										
Methyl Cyclohexane	11.7	1.0	µg/L	10.00		117	70-130			
Methylene Chloride	9.98	5.0	µg/L	10.00		99.8	70-130			
4-Methyl-2-pentanone (MIBK)	96.9	10	µg/L	100.0		96.9	70-160			†
Naphthalene	4.15	2.0	µg/L	10.00		41.5	40-130			V-05 †
n-Propylbenzene	10.1	1.0	µg/L	10.00		101	70-130			
Styrene	10.2	1.0	µg/L	10.00		102	70-130			
1,1,2,2-Tetrachloroethane	8.64	0.50	µg/L	10.00		86.4	70-130			
Tetrachloroethylene	10.2	1.0	µg/L	10.00		102	70-130			
Toluene	10.3	1.0	µg/L	10.00		103	70-130			
1,2,3-Trichlorobenzene	7.12	5.0	µg/L	10.00		71.2	70-130			V-05
1,2,4-Trichlorobenzene	6.49	1.0	µg/L	10.00		64.9 *	70-130			V-05, L-07
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.00		105	70-130			
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.00		102	70-130			
Trichloroethylene	10.3	1.0	µg/L	10.00		103	70-130			
Trichlorofluoromethane (Freon 11)	9.76	2.0	µg/L	10.00		97.6	70-130			
1,2,3-Trichloropropane	10.8	2.0	µg/L	10.00		108	70-130			R-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.00		107	70-130			
1,2,4-Trimethylbenzene	11.4	1.0	µg/L	10.00		114	70-130			
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.00		103	70-130			
Vinyl Chloride	10.0	2.0	µg/L	10.00		100	40-160			†
m+p Xylene	20.4	2.0	µg/L	20.00		102	70-130			
o-Xylene	10.2	1.0	µg/L	10.00		102	70-130			
Xylenes (total)	30.6	1.0	µg/L	30.00		102	0-200			
Surrogate: 1,2-Dichloroethane-d4	25.2		µg/L	25.00		101	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.3		µg/L	25.00		93.3	70-130			

Prepared: 02/06/25 Analyzed: 02/07/25										
LCS Dup (B398352-BSD1)										
Acetone	101	50	µg/L	100.0		101	70-160	1.26	25	†
Benzene	9.68	1.0	µg/L	10.00		96.8	70-130	11.4	25	
Bromochloromethane	10.8	1.0	µg/L	10.00		108	70-130	7.78	25	
Bromodichloromethane	9.38	0.50	µg/L	10.00		93.8	70-130	8.77	25	
Bromoform	7.86	1.0	µg/L	10.00		78.6	70-130	3.13	25	
Bromomethane	10.1	2.0	µg/L	10.00		101	40-160	7.69	25	†
2-Butanone (MEK)	108	20	µg/L	100.0		108	40-160	4.00	25	†
n-Butylbenzene	9.97	1.0	µg/L	10.00		99.7	70-130	8.73	25	
sec-Butylbenzene	9.85	1.0	µg/L	10.00		98.5	70-130	14.2	25	
tert-Butylbenzene	9.81	1.0	µg/L	10.00		98.1	70-130	14.4	25	
Carbon Disulfide	99.1	5.0	µg/L	100.0		99.1	70-130	11.0	25	
Carbon Tetrachloride	9.13	5.0	µg/L	10.00		91.3	70-130	11.7	25	
Chlorobenzene	9.27	1.0	µg/L	10.00		92.7	70-130	7.78	25	
Chlorodibromomethane	8.93	0.50	µg/L	10.00		89.3	70-130	4.49	25	
Chloroethane	10.5	2.0	µg/L	10.00		105	70-130	6.28	25	
Chloroform	9.50	2.0	µg/L	10.00		95.0	70-130	9.24	25	
Chloromethane	7.95	2.0	µg/L	10.00		79.5	40-160	14.6	25	†
Cyclohexane	9.50	5.0	µg/L	10.00		95.0	70-130	10.8	25	
1,2-Dibromo-3-chloropropane (DBCP)	7.64	5.0	µg/L	10.00		76.4	70-130	9.00	25	
1,2-Dibromoethane (EDB)	9.75	0.50	µg/L	10.00		97.5	70-130	2.73	25	
1,2-Dichlorobenzene	9.51	1.0	µg/L	10.00		95.1	70-130	6.02	25	
1,3-Dichlorobenzene	9.48	1.0	µg/L	10.00		94.8	70-130	9.73	25	
1,4-Dichlorobenzene	9.00	1.0	µg/L	10.00		90.0	70-130	11.1	25	
Dichlorodifluoromethane (Freon 12)	8.51	2.0	µg/L	10.00		85.1	40-160	14.9	25	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B398352 - SW-846 5030B										
LCS Dup (B398352-BSD1)				Prepared: 02/06/25 Analyzed: 02/07/25						
1,1-Dichloroethane	9.78	1.0	µg/L	10.00		97.8	70-130	8.33	25	
1,2-Dichloroethane	9.95	1.0	µg/L	10.00		99.5	70-130	5.47	25	
1,1-Dichloroethylene	8.74	1.0	µg/L	10.00		87.4	70-130	15.5	25	
cis-1,2-Dichloroethylene	9.65	1.0	µg/L	10.00		96.5	70-130	11.0	25	
trans-1,2-Dichloroethylene	8.91	1.0	µg/L	10.00		89.1	70-130	11.7	25	
1,2-Dichloropropane	9.79	1.0	µg/L	10.00		97.9	70-130	8.41	25	
cis-1,3-Dichloropropene	9.51	0.50	µg/L	10.00		95.1	70-130	6.81	25	
trans-1,3-Dichloropropene	10.2	0.50	µg/L	10.00		102	70-130	4.68	25	
Ethylbenzene	9.38	1.0	µg/L	10.00		93.8	70-130	11.8	25	
2-Hexanone (MBK)	102	10	µg/L	100.0		102	70-160	11.1	25	†
Isopropylbenzene (Cumene)	9.09	1.0	µg/L	10.00		90.9	70-130	12.2	25	
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.00		104	70-130	10.4	25	
Methyl Acetate	11.2	1.0	µg/L	10.00		112	70-130	1.08	25	
Methyl tert-Butyl Ether (MTBE)	9.71	1.0	µg/L	10.00		97.1	70-130	5.22	25	
Methyl Cyclohexane	10.2	1.0	µg/L	10.00		102	70-130	13.3	25	
Methylene Chloride	9.00	5.0	µg/L	10.00		90.0	70-130	10.3	25	
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100.0		102	70-160	4.87	25	†
Naphthalene	4.60	2.0	µg/L	10.00		46.0	40-130	10.3	25	V-05 †
n-Propylbenzene	8.86	1.0	µg/L	10.00		88.6	70-130	13.4	25	
Styrene	9.26	1.0	µg/L	10.00		92.6	70-130	10.1	25	
1,1,2,2-Tetrachloroethane	8.95	0.50	µg/L	10.00		89.5	70-130	3.52	25	
Tetrachloroethylene	8.96	1.0	µg/L	10.00		89.6	70-130	12.7	25	
Toluene	9.59	1.0	µg/L	10.00		95.9	70-130	7.04	25	
1,2,3-Trichlorobenzene	7.44	5.0	µg/L	10.00		74.4	70-130	4.40	25	V-05
1,2,4-Trichlorobenzene	7.23	1.0	µg/L	10.00		72.3	70-130	10.8	25	V-05
1,1,1-Trichloroethane	9.36	1.0	µg/L	10.00		93.6	70-130	11.3	25	
1,1,2-Trichloroethane	9.54	1.0	µg/L	10.00		95.4	70-130	6.20	25	
Trichloroethylene	9.45	1.0	µg/L	10.00		94.5	70-130	8.70	25	
Trichlorofluoromethane (Freon 11)	7.99	2.0	µg/L	10.00		79.9	70-130	19.9	25	
1,2,3-Trichloropropane	8.06	2.0	µg/L	10.00		80.6	70-130	29.2 *	25	R-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.90	1.0	µg/L	10.00		89.0	70-130	18.7	25	
1,2,4-Trimethylbenzene	10.1	1.0	µg/L	10.00		101	70-130	12.1	25	
1,3,5-Trimethylbenzene	9.23	1.0	µg/L	10.00		92.3	70-130	10.8	25	
Vinyl Chloride	8.98	2.0	µg/L	10.00		89.8	40-160	10.7	25	†
m+p Xylene	18.3	2.0	µg/L	20.00		91.4	70-130	10.8	25	
o-Xylene	9.23	1.0	µg/L	10.00		92.3	70-130	10.2	25	
Xylenes (total)	27.5	1.0	µg/L	30.00		91.7	0-200	10.6		
Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.00		100	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.00		97.5	70-130			
Matrix Spike (B398352-MS1)				Source: 25B0197-01		Prepared: 02/06/25 Analyzed: 02/07/25				
Acetone	89.3	50	µg/L	100.0	3.86	85.4	70-130			
Benzene	9.88	1.0	µg/L	10.00	ND	98.8	70-130			
Bromochloromethane	10.5	1.0	µg/L	10.00	ND	105	70-130			
Bromodichloromethane	9.18	0.50	µg/L	10.00	ND	91.8	70-130			
Bromoform	6.89	1.0	µg/L	10.00	ND	68.9 *	70-130			MS-24
Bromomethane	9.91	2.0	µg/L	10.00	ND	99.1	70-130			
2-Butanone (MEK)	85.2	20	µg/L	100.0	ND	85.2	70-130			
n-Butylbenzene	8.87	1.0	µg/L	10.00	ND	88.7	70-130			
sec-Butylbenzene	10.0	1.0	µg/L	10.00	ND	100	70-130			
tert-Butylbenzene	10.2	1.0	µg/L	10.00	ND	102	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B398352 - SW-846 5030B										
Matrix Spike (B398352-MS1)	Source: 25B0197-01			Prepared: 02/06/25 Analyzed: 02/07/25						
Carbon Disulfide	101	5.0	µg/L	100.0	ND	101	70-130			
Carbon Tetrachloride	9.73	5.0	µg/L	10.00	ND	97.3	70-130			
Chlorobenzene	9.05	1.0	µg/L	10.00	ND	90.5	70-130			
Chlorodibromomethane	8.07	0.50	µg/L	10.00	ND	80.7	70-130			
Chloroethane	10.6	2.0	µg/L	10.00	ND	106	70-130			
Chloroform	9.77	2.0	µg/L	10.00	ND	97.7	70-130			
Chloromethane	8.30	2.0	µg/L	10.00	ND	83.0	70-130			
Cyclohexane	10.0	5.0	µg/L	10.00	ND	100	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	6.80	5.0	µg/L	10.00	ND	68.0	* 70-130			MS-24
1,2-Dibromoethane (EDB)	8.78	0.50	µg/L	10.00	ND	87.8	70-130			
1,2-Dichlorobenzene	8.88	1.0	µg/L	10.00	ND	88.8	70-130			
1,3-Dichlorobenzene	8.68	1.0	µg/L	10.00	ND	86.8	70-130			
1,4-Dichlorobenzene	8.42	1.0	µg/L	10.00	ND	84.2	70-130			
Dichlorodifluoromethane (Freon 12)	8.58	2.0	µg/L	10.00	ND	85.8	70-130			
1,1-Dichloroethane	9.90	1.0	µg/L	10.00	ND	99.0	70-130			
1,2-Dichloroethane	9.25	1.0	µg/L	10.00	ND	92.5	70-130			
1,1-Dichloroethylene	9.52	1.0	µg/L	10.00	ND	95.2	70-130			
cis-1,2-Dichloroethylene	9.44	1.0	µg/L	10.00	ND	94.4	70-130			
trans-1,2-Dichloroethylene	9.16	1.0	µg/L	10.00	ND	91.6	70-130			
1,2-Dichloropropane	9.41	1.0	µg/L	10.00	ND	94.1	70-130			
cis-1,3-Dichloropropene	8.74	0.50	µg/L	10.00	ND	87.4	70-130			
trans-1,3-Dichloropropene	8.47	0.50	µg/L	10.00	ND	84.7	70-130			
Ethylbenzene	9.33	1.0	µg/L	10.00	ND	93.3	70-130			
2-Hexanone (MBK)	77.3	10	µg/L	100.0	ND	77.3	70-130			
Isopropylbenzene (Cumene)	9.20	1.0	µg/L	10.00	ND	92.0	70-130			
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.00	ND	102	70-130			
Methyl Acetate	7.90	1.0	µg/L	10.00	ND	79.0	70-130			
Methyl tert-Butyl Ether (MTBE)	8.92	1.0	µg/L	10.00	ND	89.2	70-130			
Methyl Cyclohexane	10.3	1.0	µg/L	10.00	ND	103	70-130			
Methylene Chloride	9.02	5.0	µg/L	10.00	ND	90.2	70-130			
4-Methyl-2-pentanone (MIBK)	83.3	10	µg/L	100.0	ND	83.3	70-130			
Naphthalene	1.94	2.0	µg/L	10.00	ND	19.4	* 70-130			MS-07A2, R-06, V-05
n-Propylbenzene	8.89	1.0	µg/L	10.00	ND	88.9	70-130			
Styrene	8.78	1.0	µg/L	10.00	ND	87.8	70-130			
1,1,2,2-Tetrachloroethane	7.61	0.50	µg/L	10.00	ND	76.1	70-130			
Tetrachloroethylene	9.67	1.0	µg/L	10.00	ND	96.7	70-130			
Toluene	9.49	1.0	µg/L	10.00	ND	94.9	70-130			
1,2,3-Trichlorobenzene	4.53	5.0	µg/L	10.00	ND	45.3	* 70-130			MS-07A2, R-06, V-05
1,2,4-Trichlorobenzene	4.96	1.0	µg/L	10.00	ND	49.6	* 70-130			MS-07A2, V-05
1,1,1-Trichloroethane	9.72	1.0	µg/L	10.00	ND	97.2	70-130			
1,1,2-Trichloroethane	9.06	1.0	µg/L	10.00	ND	90.6	70-130			
Trichloroethylene	9.90	1.0	µg/L	10.00	ND	99.0	70-130			
Trichlorofluoromethane (Freon 11)	9.09	2.0	µg/L	10.00	ND	90.9	70-130			
1,2,3-Trichloropropane	7.51	2.0	µg/L	10.00	ND	75.1	70-130			R-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.59	1.0	µg/L	10.00	ND	95.9	70-130			
1,2,4-Trimethylbenzene	9.83	1.0	µg/L	10.00	ND	98.3	70-130			
1,3,5-Trimethylbenzene	9.14	1.0	µg/L	10.00	ND	91.4	70-130			
Vinyl Chloride	9.30	2.0	µg/L	10.00	ND	93.0	70-130			
m+p Xylene	18.2	2.0	µg/L	20.00	ND	91.1	70-130			
o-Xylene	9.11	1.0	µg/L	10.00	ND	91.1	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B398352 - SW-846 5030B										
Matrix Spike (B398352-MS1)	Source: 25B0197-01			Prepared: 02/06/25 Analyzed: 02/07/25						
Xylenes (total)	27.3	1.0	µg/L	30.00	ND	91.1	0-200			
Surrogate: 1,2-Dichloroethane-d4	26.1		µg/L	25.00		105	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.00		102	70-130			
Surrogate: 4-Bromofluorobenzene	23.5		µg/L	25.00		94.2	70-130			
Matrix Spike Dup (B398352-MSD1)	Source: 25B0197-01			Prepared: 02/06/25 Analyzed: 02/07/25						
Acetone	98.8	50	µg/L	100.0	3.86	94.9	70-130	10.1	30	
Benzene	10.2	1.0	µg/L	10.00	ND	102	70-130	2.70	30	
Bromochloromethane	10.6	1.0	µg/L	10.00	ND	106	70-130	1.42	30	
Bromodichloromethane	9.28	0.50	µg/L	10.00	ND	92.8	70-130	1.08	30	
Bromoform	7.00	1.0	µg/L	10.00	ND	70.0	70-130	1.58	30	
Bromomethane	9.80	2.0	µg/L	10.00	ND	98.0	70-130	1.12	30	
2-Butanone (MEK)	95.1	20	µg/L	100.0	ND	95.1	70-130	11.0	30	
n-Butylbenzene	9.21	1.0	µg/L	10.00	ND	92.1	70-130	3.76	30	
sec-Butylbenzene	10.9	1.0	µg/L	10.00	ND	109	70-130	8.25	30	
tert-Butylbenzene	10.8	1.0	µg/L	10.00	ND	108	70-130	5.60	30	
Carbon Disulfide	104	5.0	µg/L	100.0	ND	104	70-130	2.65	30	
Carbon Tetrachloride	9.73	5.0	µg/L	10.00	ND	97.3	70-130	0.00	30	
Chlorobenzene	9.00	1.0	µg/L	10.00	ND	90.0	70-130	0.554	30	
Chlorodibromomethane	8.22	0.50	µg/L	10.00	ND	82.2	70-130	1.84	30	
Chloroethane	9.79	2.0	µg/L	10.00	ND	97.9	70-130	7.95	30	
Chloroform	9.90	2.0	µg/L	10.00	ND	99.0	70-130	1.32	30	
Chloromethane	8.55	2.0	µg/L	10.00	ND	85.5	70-130	2.97	30	
Cyclohexane	10.4	5.0	µg/L	10.00	ND	104	70-130	3.82	30	
1,2-Dibromo-3-chloropropane (DBCP)	7.26	5.0	µg/L	10.00	ND	72.6	70-130	6.54	30	
1,2-Dibromoethane (EDB)	8.81	0.50	µg/L	10.00	ND	88.1	70-130	0.341	30	
1,2-Dichlorobenzene	9.36	1.0	µg/L	10.00	ND	93.6	70-130	5.26	30	
1,3-Dichlorobenzene	9.46	1.0	µg/L	10.00	ND	94.6	70-130	8.60	30	
1,4-Dichlorobenzene	8.96	1.0	µg/L	10.00	ND	89.6	70-130	6.21	30	
Dichlorodifluoromethane (Freon 12)	8.85	2.0	µg/L	10.00	ND	88.5	70-130	3.10	30	
1,1-Dichloroethane	10.0	1.0	µg/L	10.00	ND	100	70-130	1.50	30	
1,2-Dichloroethane	9.52	1.0	µg/L	10.00	ND	95.2	70-130	2.88	30	
1,1-Dichloroethylene	9.96	1.0	µg/L	10.00	ND	99.6	70-130	4.52	30	
cis-1,2-Dichloroethylene	9.77	1.0	µg/L	10.00	ND	97.7	70-130	3.44	30	
trans-1,2-Dichloroethylene	9.44	1.0	µg/L	10.00	ND	94.4	70-130	3.01	30	
1,2-Dichloropropane	9.58	1.0	µg/L	10.00	ND	95.8	70-130	1.79	30	
cis-1,3-Dichloropropene	8.88	0.50	µg/L	10.00	ND	88.8	70-130	1.59	30	
trans-1,3-Dichloropropene	8.92	0.50	µg/L	10.00	ND	89.2	70-130	5.18	30	
Ethylbenzene	9.76	1.0	µg/L	10.00	ND	97.6	70-130	4.50	30	
2-Hexanone (MBK)	84.6	10	µg/L	100.0	ND	84.6	70-130	9.06	30	
Isopropylbenzene (Cumene)	9.29	1.0	µg/L	10.00	ND	92.9	70-130	0.974	30	
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.00	ND	105	70-130	2.99	30	
Methyl Acetate	8.32	1.0	µg/L	10.00	ND	83.2	70-130	5.18	30	
Methyl tert-Butyl Ether (MTBE)	9.20	1.0	µg/L	10.00	ND	92.0	70-130	3.09	30	
Methyl Cyclohexane	10.3	1.0	µg/L	10.00	ND	103	70-130	0.388	30	
Methylene Chloride	9.03	5.0	µg/L	10.00	ND	90.3	70-130	0.111	30	
4-Methyl-2-pentanone (MIBK)	90.2	10	µg/L	100.0	ND	90.2	70-130	7.91	30	
Naphthalene	3.23	2.0	µg/L	10.00	ND	32.3 *	70-130	49.9 *	30	MS-07A2, R-06, V-05
n-Propylbenzene	9.11	1.0	µg/L	10.00	ND	91.1	70-130	2.44	30	
Styrene	8.74	1.0	µg/L	10.00	ND	87.4	70-130	0.457	30	
1,1,2,2-Tetrachloroethane	8.03	0.50	µg/L	10.00	ND	80.3	70-130	5.37	30	
Tetrachloroethylene	9.39	1.0	µg/L	10.00	ND	93.9	70-130	2.94	30	

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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 B398352 - SW-846 5030B										
Matrix Spike Dup (B398352-MSD1)		Source: 25B0197-01			Prepared: 02/06/25 Analyzed: 02/07/25					
Toluene	9.56	1.0	µg/L	10.00	ND	95.6	70-130	0.735	30	
1,2,3-Trichlorobenzene	6.50	5.0	µg/L	10.00	ND	65.0	* 70-130	35.7	* 30	MS-07A2, R-06, V-05
1,2,4-Trichlorobenzene	5.82	1.0	µg/L	10.00	ND	58.2	* 70-130	16.0	30	MS-07A2, V-05
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.00	ND	101	70-130	3.83	30	
1,1,2-Trichloroethane	8.96	1.0	µg/L	10.00	ND	89.6	70-130	1.11	30	
Trichloroethylene	9.85	1.0	µg/L	10.00	ND	98.5	70-130	0.506	30	
Trichlorofluoromethane (Freon 11)	9.13	2.0	µg/L	10.00	ND	91.3	70-130	0.439	30	
1,2,3-Trichloropropane	7.93	2.0	µg/L	10.00	ND	79.3	70-130	5.44	30	R-05
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.89	1.0	µg/L	10.00	ND	98.9	70-130	3.08	30	
1,2,4-Trimethylbenzene	10.7	1.0	µg/L	10.00	ND	107	70-130	8.29	30	
1,3,5-Trimethylbenzene	9.38	1.0	µg/L	10.00	ND	93.8	70-130	2.59	30	
Vinyl Chloride	9.84	2.0	µg/L	10.00	ND	98.4	70-130	5.64	30	
m+p Xylene	18.3	2.0	µg/L	20.00	ND	91.6	70-130	0.602	20	
o-Xylene	9.22	1.0	µg/L	10.00	ND	92.2	70-130	1.20	30	
Xylenes (total)	27.6	1.0	µg/L	30.00	ND	91.8	0-200	0.802		
Surrogate: 1,2-Dichloroethane-d4	25.4		µg/L	25.00		102	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.00		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.5		µg/L	25.00		93.9	70-130			

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 B398360 - SW-846 3510C										
Blank (B398360-BLK1)				Prepared: 02/06/25 Analyzed: 02/11/25						
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
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							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							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
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	10	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							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B398360 - SW-846 3510C										
Blank (B398360-BLK1)										
Prepared: 02/06/25 Analyzed: 02/11/25										
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							
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	277		µg/L	400.0		69.3	15-110			
Surrogate: Phenol-d6	186		µg/L	400.0		46.5	15-110			
Surrogate: Nitrobenzene-d5	203		µg/L	200.0		101	30-130			
Surrogate: 2-Fluorobiphenyl	193		µg/L	200.0		96.3	30-130			
Surrogate: 2,4,6-Tribromophenol	410		µg/L	400.0		103	15-110			
Surrogate: p-Terphenyl-d14	213		µg/L	200.0		107	30-130			
LCS (B398360-BS1)										
Prepared: 02/06/25 Analyzed: 02/10/25										
2,3,4,6-Tetrachlorophenol	67.8	20	µg/L	100.0		67.8	40-140			R-05
Atrazine	88.4	20	µg/L	100.0		88.4	40-140			
Benzaldehyde	74.1	10	µg/L	100.0		74.1	40-140			
Biphenyl	82.7	20	µg/L	100.0		82.7	40-140			
Caprolactam	22.8	10	µg/L	100.0		22.8	* 40-140			L-04
Acenaphthene	77.6	5.0	µg/L	100.0		77.6	40-140			
Acenaphthylene	83.5	5.0	µg/L	100.0		83.5	40-140			
Acetophenone	76.0	10	µg/L	100.0		76.0	40-140			
Aniline	68.9	20	µg/L	100.0		68.9	40-140			V-34
Anthracene	81.4	5.0	µg/L	100.0		81.4	40-140			
Benzo(a)anthracene	81.2	5.0	µg/L	100.0		81.2	40-140			
Benzo(a)pyrene	81.3	5.0	µg/L	100.0		81.3	40-140			
Benzo(b)fluoranthene	83.2	5.0	µg/L	100.0		83.2	40-140			
Benzo(g,h,i)perylene	87.0	5.0	µg/L	100.0		87.0	40-140			
Benzo(k)fluoranthene	84.8	5.0	µg/L	100.0		84.8	40-140			
Bis(2-chloroethoxy)methane	78.0	10	µg/L	100.0		78.0	40-140			
Bis(2-chloroethyl)ether	76.3	10	µg/L	100.0		76.3	40-140			
2,2'-oxybis(1-Chloropropane)	86.3	10	µg/L	100.0		86.3	40-140			
Bis(2-Ethylhexyl)phthalate	80.4	10	µg/L	100.0		80.4	40-140			
4-Bromophenylphenylether	73.0	10	µg/L	100.0		73.0	40-140			
Butylbenzylphthalate	84.5	10	µg/L	100.0		84.5	40-140			
Carbazole	82.0	10	µg/L	100.0		82.0	40-140			
4-Chloroaniline	81.4	10	µg/L	100.0		81.4	40-140			
4-Chloro-3-methylphenol	79.4	10	µg/L	100.0		79.4	30-130			
2-Chloronaphthalene	70.0	10	µg/L	100.0		70.0	40-140			
2-Chlorophenol	65.3	10	µg/L	100.0		65.3	30-130			R-05

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B398360 - SW-846 3510C										
LCS (B398360-BS1)										
Prepared: 02/06/25 Analyzed: 02/10/25										
4-Chlorophenylphenylether	76.8	10	µg/L	100.0		76.8	40-140			
Chrysene	82.5	5.0	µg/L	100.0		82.5	40-140			
Dibenz(a,h)anthracene	80.6	5.0	µg/L	100.0		80.6	40-140			
Dibenzofuran	82.1	5.0	µg/L	100.0		82.1	40-140			
Di-n-butylphthalate	77.0	10	µg/L	100.0		77.0	40-140			
3,3-Dichlorobenzidine	99.3	10	µg/L	100.0		99.3	40-140			
2,4-Dichlorophenol	69.2	10	µg/L	100.0		69.2	30-130			
Diethylphthalate	76.2	10	µg/L	100.0		76.2	40-140			
2,4-Dimethylphenol	86.1	10	µg/L	100.0		86.1	30-130			
Dimethylphthalate	78.1	10	µg/L	100.0		78.1	40-140			
4,6-Dinitro-2-methylphenol	58.3	20	µg/L	100.0		58.3	30-130			
2,4-Dinitrophenol	48.7	10	µg/L	100.0		48.7	30-130			V-04
2,4-Dinitrotoluene	84.2	10	µg/L	100.0		84.2	40-140			
2,6-Dinitrotoluene	90.5	10	µg/L	100.0		90.5	40-140			
Di-n-octylphthalate	79.0	10	µg/L	100.0		79.0	40-140			V-04
Fluoranthene	80.9	5.0	µg/L	100.0		80.9	40-140			
Fluorene	81.7	5.0	µg/L	100.0		81.7	40-140			
Hexachlorobenzene	81.3	10	µg/L	100.0		81.3	40-140			
Hexachlorobutadiene	69.6	10	µg/L	100.0		69.6	40-140			
Hexachlorocyclopentadiene	77.8	10	µg/L	100.0		77.8	30-140			†
Hexachloroethane	64.7	10	µg/L	100.0		64.7	40-140			
Indeno(1,2,3-cd)pyrene	86.1	5.0	µg/L	100.0		86.1	40-140			
Isophorone	86.0	10	µg/L	100.0		86.0	40-140			
1-Methylnaphthalene	76.9	5.0	µg/L	100.0		76.9	40-140			
2-Methylnaphthalene	72.9	5.0	µg/L	100.0		72.9	40-140			
2-Methylphenol	69.6	10	µg/L	100.0		69.6	30-130			
3/4-Methylphenol	90.2	10	µg/L	100.0		90.2	30-130			
Naphthalene	75.2	5.0	µg/L	100.0		75.2	40-140			
2-Nitroaniline	101	10	µg/L	100.0		101	40-140			
3-Nitroaniline	90.2	10	µg/L	100.0		90.2	40-140			
4-Nitroaniline	87.1	10	µg/L	100.0		87.1	40-140			
Nitrobenzene	79.6	10	µg/L	100.0		79.6	40-140			
2-Nitrophenol	63.1	10	µg/L	100.0		63.1	30-130			R-05
4-Nitrophenol	38.3	10	µg/L	100.0		38.3	10-130			†
N-Nitrosodiphenylamine/Diphenylamine	80.6	10	µg/L	100.0		80.6	40-140			
N-Nitrosodi-n-propylamine	73.4	10	µg/L	100.0		73.4	40-140			
Pentachlorophenol	62.5	10	µg/L	100.0		62.5	30-130			
Phenanthrene	81.3	5.0	µg/L	100.0		81.3	40-140			
Phenol	36.1	10	µg/L	100.0		36.1	20-130			†
Pyrene	82.9	5.0	µg/L	100.0		82.9	40-140			
Pyridine	28.3	20	µg/L	100.0		28.3	10-140			†
1,2,4,5-Tetrachlorobenzene	74.9	10	µg/L	100.0		74.9	40-140			
2,4,5-Trichlorophenol	68.8	10	µg/L	100.0		68.8	30-130			R-05
2,4,6-Trichlorophenol	64.0	10	µg/L	100.0		64.0	30-130			
Surrogate: 2-Fluorophenol	193		µg/L	400.0		48.2	15-110			
Surrogate: Phenol-d6	153		µg/L	400.0		38.3	15-110			
Surrogate: Nitrobenzene-d5	169		µg/L	200.0		84.3	30-130			
Surrogate: 2-Fluorobiphenyl	167		µg/L	200.0		83.3	30-130			
Surrogate: 2,4,6-Tribromophenol	313		µg/L	400.0		78.3	15-110			
Surrogate: p-Terphenyl-d14	180		µg/L	200.0		90.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B398360 - SW-846 3510C										
LCS Dup (B398360-BSD1)										
Prepared: 02/06/25 Analyzed: 02/10/25										
2,3,4,6-Tetrachlorophenol	87.3	20	µg/L	100.0		87.3	40-140	25.1 *	20	R-05
Atrazine	93.3	20	µg/L	100.0		93.3	40-140	5.41	20	
Benzaldehyde	77.4	10	µg/L	100.0		77.4	40-140	4.37	20	
Biphenyl	80.3	20	µg/L	100.0		80.3	40-140	2.93	20	
Caprolactam	26.2	10	µg/L	100.0		26.2 *	40-140	13.7	20	L-04
Acenaphthene	81.5	5.0	µg/L	100.0		81.5	40-140	4.85	20	
Acenaphthylene	83.8	5.0	µg/L	100.0		83.8	40-140	0.347	20	
Acetophenone	80.5	10	µg/L	100.0		80.5	40-140	5.77	20	
Aniline	73.8	20	µg/L	100.0		73.8	40-140	6.83	50	V-34 ‡
Anthracene	83.3	5.0	µg/L	100.0		83.3	40-140	2.32	20	
Benzo(a)anthracene	82.0	5.0	µg/L	100.0		82.0	40-140	0.992	20	
Benzo(a)pyrene	81.9	5.0	µg/L	100.0		81.9	40-140	0.772	20	
Benzo(b)fluoranthene	85.2	5.0	µg/L	100.0		85.2	40-140	2.36	20	
Benzo(g,h,i)perylene	87.9	5.0	µg/L	100.0		87.9	40-140	0.972	20	
Benzo(k)fluoranthene	83.4	5.0	µg/L	100.0		83.4	40-140	1.59	20	
Bis(2-chloroethoxy)methane	82.9	10	µg/L	100.0		82.9	40-140	6.05	20	
Bis(2-chloroethyl)ether	79.6	10	µg/L	100.0		79.6	40-140	4.21	20	
2,2'-oxybis(1-Chloropropane)	91.0	10	µg/L	100.0		91.0	40-140	5.22	20	
Bis(2-Ethylhexyl)phthalate	82.0	10	µg/L	100.0		82.0	40-140	1.96	20	
4-Bromophenylphenylether	74.1	10	µg/L	100.0		74.1	40-140	1.59	20	
Butylbenzylphthalate	87.4	10	µg/L	100.0		87.4	40-140	3.40	20	
Carbazole	83.8	10	µg/L	100.0		83.8	40-140	2.12	20	
4-Chloroaniline	87.2	10	µg/L	100.0		87.2	40-140	6.85	20	
4-Chloro-3-methylphenol	87.5	10	µg/L	100.0		87.5	30-130	9.73	20	
2-Chloronaphthalene	69.4	10	µg/L	100.0		69.4	40-140	0.804	20	
2-Chlorophenol	82.9	10	µg/L	100.0		82.9	30-130	23.8 *	20	R-05
4-Chlorophenylphenylether	79.8	10	µg/L	100.0		79.8	40-140	3.95	20	
Chrysene	84.4	5.0	µg/L	100.0		84.4	40-140	2.23	20	
Dibenz(a,h)anthracene	80.9	5.0	µg/L	100.0		80.9	40-140	0.297	20	
Dibenzofuran	82.4	5.0	µg/L	100.0		82.4	40-140	0.353	20	
Di-n-butylphthalate	81.7	10	µg/L	100.0		81.7	40-140	5.90	20	
3,3-Dichlorobenzidine	100	10	µg/L	100.0		100	40-140	1.23	20	
2,4-Dichlorophenol	84.3	10	µg/L	100.0		84.3	30-130	19.7	20	
Diethylphthalate	80.8	10	µg/L	100.0		80.8	40-140	5.87	20	
2,4-Dimethylphenol	89.6	10	µg/L	100.0		89.6	30-130	3.97	20	
Dimethylphthalate	78.9	10	µg/L	100.0		78.9	40-140	1.02	50	‡
4,6-Dinitro-2-methylphenol	79.8	20	µg/L	100.0		79.8	30-130	31.1	50	‡
2,4-Dinitrophenol	79.1	10	µg/L	100.0		79.1	30-130	47.7	50	V-04 ‡
2,4-Dinitrotoluene	90.4	10	µg/L	100.0		90.4	40-140	7.10	20	
2,6-Dinitrotoluene	90.6	10	µg/L	100.0		90.6	40-140	0.0994	20	
Di-n-octylphthalate	82.6	10	µg/L	100.0		82.6	40-140	4.37	20	V-04
Fluoranthene	84.4	5.0	µg/L	100.0		84.4	40-140	4.21	20	
Fluorene	83.8	5.0	µg/L	100.0		83.8	40-140	2.43	20	
Hexachlorobenzene	81.0	10	µg/L	100.0		81.0	40-140	0.357	20	
Hexachlorobutadiene	70.4	10	µg/L	100.0		70.4	40-140	1.21	20	
Hexachlorocyclopentadiene	77.9	10	µg/L	100.0		77.9	30-140	0.218	50	† ‡
Hexachloroethane	66.0	10	µg/L	100.0		66.0	40-140	1.91	50	‡
Indeno(1,2,3-cd)pyrene	87.0	5.0	µg/L	100.0		87.0	40-140	1.13	50	‡
Isophorone	90.1	10	µg/L	100.0		90.1	40-140	4.64	20	
1-Methylnaphthalene	80.7	5.0	µg/L	100.0		80.7	40-140	4.82	20	
2-Methylnaphthalene	76.4	5.0	µg/L	100.0		76.4	40-140	4.78	20	
2-Methylphenol	76.9	10	µg/L	100.0		76.9	30-130	9.97	20	

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 B398360 - SW-846 3510C										
LCS Dup (B398360-BSD1)										
Prepared: 02/06/25 Analyzed: 02/10/25										
3/4-Methylphenol	101	10	µg/L	100.0		101	30-130	11.7	20	
Naphthalene	76.6	5.0	µg/L	100.0		76.6	40-140	1.86	20	
2-Nitroaniline	105	10	µg/L	100.0		105	40-140	4.13	20	
3-Nitroaniline	94.3	10	µg/L	100.0		94.3	40-140	4.44	20	
4-Nitroaniline	89.5	10	µg/L	100.0		89.5	40-140	2.69	20	
Nitrobenzene	82.4	10	µg/L	100.0		82.4	40-140	3.51	20	
2-Nitrophenol	79.7	10	µg/L	100.0		79.7	30-130	23.3 *	20	R-05
4-Nitrophenol	53.8	10	µg/L	100.0		53.8	10-130	33.8	50	† ‡
N-Nitrosodiphenylamine/Diphenylamine	80.1	10	µg/L	100.0		80.1	40-140	0.623	20	
N-Nitrosodi-n-propylamine	80.1	10	µg/L	100.0		80.1	40-140	8.71	20	
Pentachlorophenol	83.6	10	µg/L	100.0		83.6	30-130	28.8	50	‡
Phenanthrene	80.1	5.0	µg/L	100.0		80.1	40-140	1.52	20	
Phenol	43.5	10	µg/L	100.0		43.5	20-130	18.4	20	†
Pyrene	82.6	5.0	µg/L	100.0		82.6	40-140	0.326	20	
Pyridine	27.7	20	µg/L	100.0		27.7	10-140	2.15	50	† ‡
1,2,4,5-Tetrachlorobenzene	72.0	10	µg/L	100.0		72.0	40-140	4.07	20	
2,4,5-Trichlorophenol	85.2	10	µg/L	100.0		85.2	30-130	21.3 *	20	R-05
2,4,6-Trichlorophenol	80.6	10	µg/L	100.0		80.6	30-130	23.0	50	‡
Surrogate: 2-Fluorophenol	247		µg/L	400.0		61.8	15-110			
Surrogate: Phenol-d6	180		µg/L	400.0		44.9	15-110			
Surrogate: Nitrobenzene-d5	168		µg/L	200.0		84.1	30-130			
Surrogate: 2-Fluorobiphenyl	160		µg/L	200.0		79.8	30-130			
Surrogate: 2,4,6-Tribromophenol	385		µg/L	400.0		96.2	15-110			
Surrogate: p-Terphenyl-d14	176		µg/L	200.0		88.0	30-130			

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B398373 - SW-846 3510C									
Blank (B398373-BLK1)									
Prepared: 02/06/25 Analyzed: 02/11/25									
1,4-Dioxane	ND	0.20	µg/L						
Surrogate: 1,4-Dioxane-d8	3.01		µg/L	10.00		30.1	15-110		
LCS (B398373-BS1)									
Prepared: 02/06/25 Analyzed: 02/11/25									
1,4-Dioxane	10.8	0.20	µg/L	10.00		108	40-140		
Surrogate: 1,4-Dioxane-d8	3.09		µg/L	10.00		30.9	15-110		
LCS Dup (B398373-BSD1)									
Prepared: 02/06/25 Analyzed: 02/11/25									
1,4-Dioxane	11.5	0.20	µg/L	10.00		115	40-140	6.72	30
Surrogate: 1,4-Dioxane-d8	2.92		µg/L	10.00		29.2	15-110		

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B398340 - EPA 1633										
Blank (B398340-BLK1)										
Prepared: 02/07/25 Analyzed: 02/10/25										
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							PF-17
Perfluoropentanoic acid (PFPeA)	ND	3.2	ng/L							PF-17
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							PF-17
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							PF-17
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							PF-17
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							PF-17
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							PF-17
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							PF-17
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							PF-17
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							PF-17
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							PF-17
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							PF-17
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							PF-17
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							PF-17
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							PF-17
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							PF-17
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							PF-17
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							PF-17
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							PF-17
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							PF-17
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	ng/L							PF-17
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							PF-17
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							PF-17
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	ng/L							PF-17
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							PF-17
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							PF-17
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							PF-17
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							PF-17
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							PF-17
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							PF-17
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	ng/L							PF-17
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	ng/L							PF-17
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	3.2	ng/L							PF-17
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							PF-17
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							PF-17
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							PF-17
Surrogate: 13C4-PFBA	124		ng/L	79.22		157	* 5-130			PF-17

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B398340 - EPA 1633
Blank (B398340-BLK1)

Prepared: 02/07/25 Analyzed: 02/10/25

Surrogate: 13C5-PFPeA	62.3		ng/L	39.61		157	* 40-130			PF-17
Surrogate: 13C5-PFHxA	31.6		ng/L	19.81		160	* 40-130			PF-17
Surrogate: 13C4-PFHpA	30.7		ng/L	19.81		155	* 40-130			PF-17
Surrogate: 13C8-PFOA	32.8		ng/L	19.81		166	* 40-130			PF-17
Surrogate: 13C9-PFNA	15.8		ng/L	9.903		160	* 40-130			PF-17
Surrogate: 13C6-PFDA	14.8		ng/L	9.903		150	* 40-130			PF-17
Surrogate: 13C7-PFUnA	14.6		ng/L	9.903		147	* 30-130			PF-17
Surrogate: 13C2-PFDoA	13.6		ng/L	9.903		138	* 10-130			PF-17
Surrogate: 13C2-PFTeDA	12.9		ng/L	9.903		130	10-130			
Surrogate: 13C3-PFBS	31.5		ng/L	19.81		159	* 40-135			PF-17
Surrogate: 13C3-PFHxS	31.3		ng/L	19.81		158	* 40-130			PF-17
Surrogate: 13C8-PFOS	30.9		ng/L	19.81		156	* 40-130			PF-17
Surrogate: 13C2-4:2FTS	67.5		ng/L	39.61		170	40-200			
Surrogate: 13C2-6:2FTS	64.3		ng/L	39.61		162	40-200			
Surrogate: 13C2-8:2FTS	60.7		ng/L	39.61		153	40-300			
Surrogate: 13C8-PFOA	30.3		ng/L	19.81		153	* 40-130			PF-17
Surrogate: D3-NMeFOSA	28.6		ng/L	19.81		145	* 10-130			PF-17
Surrogate: D5-NEtFOSA	29.3		ng/L	19.81		148	* 10-130			PF-17
Surrogate: D3-NMeFOSAA	59.3		ng/L	39.61		150	40-170			
Surrogate: D5-NEtFOSAA	62.9		ng/L	39.61		159	* 25-135			PF-17
Surrogate: D7-NMeFOSE	281		ng/L	198.1		142	* 10-130			PF-17
Surrogate: D9-NEtFOSE	275		ng/L	198.1		139	* 10-130			PF-17
Surrogate: 13C3-HFPO-DA	125		ng/L	79.22		158	* 40-130			PF-17

LCS (B398340-BS1)

Prepared: 02/07/25 Analyzed: 02/10/25

Perfluorobutanoic acid (PFBA)	82.7	6.2	ng/L	77.97		106	70-140			
Perfluoropentanoic acid (PFPeA)	41.7	3.1	ng/L	38.99		107	65-135			
Perfluorohexanoic acid (PFHxA)	21.0	1.6	ng/L	19.49		108	70-145			
Perfluoroheptanoic acid (PFHpA)	20.4	1.6	ng/L	19.49		105	70-150			
Perfluorooctanoic acid (PFOA)	17.8	1.6	ng/L	19.49		91.4	70-150			
Perfluorononanoic acid (PFNA)	21.0	1.6	ng/L	19.49		108	70-150			
Perfluorodecanoic acid (PFDA)	20.9	1.6	ng/L	19.49		107	70-140			
Perfluoroundecanoic acid (PFUnA)	20.6	1.6	ng/L	19.49		106	70-145			
Perfluorododecanoic acid (PFDoA)	20.9	1.6	ng/L	19.49		107	70-140			
Perfluorotridecanoic acid (PFTTrDA)	20.9	1.6	ng/L	19.49		107	65-140			
Perfluorotetradecanoic acid (PFTeDA)	22.1	1.6	ng/L	19.49		113	60-140			
Perfluorobutanesulfonic acid (PFBS)	18.1	1.6	ng/L	17.31		105	60-145			
Perfluoropentanesulfonic acid (PFPeS)	19.8	1.6	ng/L	18.32		108	65-140			
Perfluorohexanesulfonic acid (PFHxS)	18.1	1.6	ng/L	17.78		102	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	20.6	1.6	ng/L	18.56		111	70-150			
Perfluorooctanesulfonic acid (PFOS)	18.7	1.6	ng/L	18.09		104	55-150			
Perfluorononanesulfonic acid (PFNS)	19.7	1.6	ng/L	18.71		105	65-145			
Perfluorodecanesulfonic acid (PFDS)	19.3	1.6	ng/L	18.79		103	60-145			
Perfluorododecanesulfonic acid (PFDoS)	18.1	1.6	ng/L	18.87		96.1	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	84.5	6.2	ng/L	73.06		116	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	93.1	6.2	ng/L	74.15		126	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	86.1	6.2	ng/L	74.85		115	60-150			
Perfluorooctanesulfonamide (PFOSA)	21.0	1.6	ng/L	19.49		108	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	20.5	1.6	ng/L	19.49		105	60-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B398340 - EPA 1633										
LCS (B398340-BS1)										
Prepared: 02/07/25 Analyzed: 02/10/25										
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	21.2	1.6	ng/L	19.49		109	65-145			
N-MeFOSAA (NMeFOSAA)	21.3	1.6	ng/L	19.49		109	50-140			
N-EtFOSAA (NEtFOSAA)	18.8	1.6	ng/L	19.49		96.3	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	209	16	ng/L	194.9		107	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	205	16	ng/L	194.9		105	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	81.2	6.2	ng/L	77.97		104	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	76.0	6.2	ng/L	73.68		103	65-145			
9Cl-PF3ONS (F53B Minor)	84.7	6.2	ng/L	72.75		116	70-155			
11Cl-PF3OUdS (F53B Major)	88.5	6.2	ng/L	72.83		122	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	92.4	7.8	ng/L	97.47		94.8	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	506	39	ng/L	487.3		104	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	556	39	ng/L	487.3		114	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	39.2	3.1	ng/L	34.78		113	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	36.7	3.1	ng/L	38.99		94.2	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.6	3.1	ng/L	38.99		104	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	41.4	3.1	ng/L	38.99		106	50-150			
Surrogate: 13C4-PFBA	73.4		ng/L	77.97		94.1	5-130			
Surrogate: 13C5-PFPeA	36.0		ng/L	38.99		92.3	40-130			
Surrogate: 13C5-PFHxA	18.2		ng/L	19.49		93.4	40-130			
Surrogate: 13C4-PFHpA	18.1		ng/L	19.49		92.9	40-130			
Surrogate: 13C8-PFOA	19.7		ng/L	19.49		101	40-130			
Surrogate: 13C9-PFNA	8.87		ng/L	9.747		91.0	40-130			
Surrogate: 13C6-PFDA	8.90		ng/L	9.747		91.4	40-130			
Surrogate: 13C7-PFUnA	9.23		ng/L	9.747		94.7	30-130			
Surrogate: 13C2-PFDoA	8.49		ng/L	9.747		87.1	10-130			
Surrogate: 13C2-PFTeDA	8.06		ng/L	9.747		82.7	10-130			
Surrogate: 13C3-PFBS	17.6		ng/L	19.49		90.3	40-135			
Surrogate: 13C3-PFHxS	17.5		ng/L	19.49		90.0	40-130			
Surrogate: 13C8-PFOS	17.9		ng/L	19.49		92.1	40-130			
Surrogate: 13C2-4:2FTS	36.5		ng/L	38.99		93.5	40-200			
Surrogate: 13C2-6:2FTS	35.6		ng/L	38.99		91.2	40-200			
Surrogate: 13C2-8:2FTS	34.4		ng/L	38.99		88.2	40-300			
Surrogate: 13C8-PFOSA	16.8		ng/L	19.49		86.0	40-130			
Surrogate: D3-NMeFOSA	16.7		ng/L	19.49		85.9	10-130			
Surrogate: D5-NEtFOSA	16.5		ng/L	19.49		84.9	10-130			
Surrogate: D3-NMeFOSAA	37.4		ng/L	38.99		95.9	40-170			
Surrogate: D5-NEtFOSAA	37.8		ng/L	38.99		96.9	25-135			
Surrogate: D7-NMeFOSE	158		ng/L	194.9		81.2	10-130			
Surrogate: D9-NEtFOSE	157		ng/L	194.9		80.7	10-130			
Surrogate: 13C3-HFPO-DA	72.3		ng/L	77.97		92.7	40-130			
MRL Check (B398340-MRL1)										
Prepared: 02/07/25 Analyzed: 02/10/25										
Perfluorobutanoic acid (PFBA)	12.1	6.3	ng/L	12.65		95.7	70-140			
Perfluoropentanoic acid (PFPeA)	6.10	3.2	ng/L	6.327		96.4	65-135			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B398340 - EPA 1633										
MRL Check (B398340-MRL1)										
Prepared: 02/07/25 Analyzed: 02/10/25										
Perfluorohexanoic acid (PFHxA)	3.20	1.6	ng/L	3.164		101	70-145			
Perfluoroheptanoic acid (PFHpA)	2.96	1.6	ng/L	3.164		93.5	70-150			
Perfluorooctanoic acid (PFOA)	2.92	1.6	ng/L	3.164		92.3	70-150			
Perfluorononanoic acid (PFNA)	2.74	1.6	ng/L	3.164		86.7	70-150			
Perfluorodecanoic acid (PFDA)	3.12	1.6	ng/L	3.164		98.5	70-140			
Perfluoroundecanoic acid (PFUnA)	2.81	1.6	ng/L	3.164		88.9	70-145			
Perfluorododecanoic acid (PFDoA)	2.97	1.6	ng/L	3.164		94.0	70-140			
Perfluorotridecanoic acid (PFTrDA)	2.85	1.6	ng/L	3.164		90.0	65-140			
Perfluorotetradecanoic acid (PFTeDA)	3.13	1.6	ng/L	3.164		99.0	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.57	1.6	ng/L	2.809		91.4	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.92	1.6	ng/L	2.974		98.2	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.97	1.6	ng/L	2.885		103	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	2.92	1.6	ng/L	3.012		96.9	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.44	1.6	ng/L	2.936		83.1	55-150			
Perfluorononanesulfonic acid (PFNS)	2.83	1.6	ng/L	3.037		93.2	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.78	1.6	ng/L	3.050		91.2	60-145			
Perfluorododecanesulfonic acid (PFDoS)	3.14	1.6	ng/L	3.063		102	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	13.5	6.3	ng/L	11.86		114	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	14.0	6.3	ng/L	12.03		117	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	13.5	6.3	ng/L	12.15		111	60-150			
Perfluorooctanesulfonamide (PFOSA)	3.13	1.6	ng/L	3.164		98.8	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	3.23	1.6	ng/L	3.164		102	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	3.35	1.6	ng/L	3.164		106	65-145			
N-MeFOSAA (NMeFOSAA)	3.23	1.6	ng/L	3.164		102	50-140			
N-EtFOSAA (NEtFOSAA)	2.60	1.6	ng/L	3.164		82.0	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	30.4	16	ng/L	31.64		96.1	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	29.8	16	ng/L	31.64		94.2	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	12.4	6.3	ng/L	12.65		98.0	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	11.2	6.3	ng/L	11.96		93.4	65-145			
9Cl-PF3ONS (F53B Minor)	12.8	6.3	ng/L	11.81		109	70-155			
11Cl-PF3OUDS (F53B Major)	12.9	6.3	ng/L	11.82		109	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	13.4	7.9	ng/L	15.82		84.6	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	72.0	40	ng/L	79.09		91.1	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	79.2	40	ng/L	79.09		100	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	5.46	3.2	ng/L	5.644		96.7	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.27	3.2	ng/L	6.327		83.3	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.77	3.2	ng/L	6.327		91.3	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.84	3.2	ng/L	6.327		92.3	50-150			
Surrogate: 13C4-PFBA	72.4		ng/L	79.09		91.5	5-130			
Surrogate: 13C5-PFPeA	35.3		ng/L	39.55		89.3	40-130			
Surrogate: 13C5-PFHxA	18.3		ng/L	19.77		92.4	40-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B398340 - EPA 1633
MRL Check (B398340-MRL1)

Prepared: 02/07/25 Analyzed: 02/10/25

Surrogate: 13C4-PFHpA	18.2		ng/L	19.77		91.8	40-130			
Surrogate: 13C8-PFOA	18.2		ng/L	19.77		92.2	40-130			
Surrogate: 13C9-PFNA	8.85		ng/L	9.887		89.5	40-130			
Surrogate: 13C6-PFDA	8.73		ng/L	9.887		88.3	40-130			
Surrogate: 13C7-PFUnA	8.83		ng/L	9.887		89.4	30-130			
Surrogate: 13C2-PFDoA	8.60		ng/L	9.887		87.0	10-130			
Surrogate: 13C2-PFTeDA	8.12		ng/L	9.887		82.2	10-130			
Surrogate: 13C3-PFBS	17.8		ng/L	19.77		89.8	40-135			
Surrogate: 13C3-PFHxS	17.7		ng/L	19.77		89.3	40-130			
Surrogate: 13C8-PFOS	16.9		ng/L	19.77		85.5	40-130			
Surrogate: 13C2-4:2FTS	37.2		ng/L	39.55		94.0	40-200			
Surrogate: 13C2-6:2FTS	37.1		ng/L	39.55		93.9	40-200			
Surrogate: 13C2-8:2FTS	35.7		ng/L	39.55		90.2	40-300			
Surrogate: 13C8-PFOSA	16.6		ng/L	19.77		84.1	40-130			
Surrogate: D3-NMeFOSA	16.5		ng/L	19.77		83.6	10-130			
Surrogate: D5-NEtFOSA	16.2		ng/L	19.77		81.9	10-130			
Surrogate: D3-NMeFOSAA	34.9		ng/L	39.55		88.1	40-170			
Surrogate: D5-NEtFOSAA	36.8		ng/L	39.55		93.1	25-135			
Surrogate: D7-NMeFOSE	156		ng/L	197.7		79.1	10-130			
Surrogate: D9-NEtFOSE	155		ng/L	197.7		78.4	10-130			
Surrogate: 13C3-HFPO-DA	69.5		ng/L	79.09		87.9	40-130			

Batch B398628 - EPA 1633
Blank (B398628-BLK1)

Prepared: 02/12/25 Analyzed: 02/15/25

Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L
Perfluoropentanoic acid (PFPeA)	ND	3.2	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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B398628 - EPA 1633
Blank (B398628-BLK1)

Prepared: 02/12/25 Analyzed: 02/15/25

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							
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	ND	40	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							
Surrogate: 13C4-PFBA	80.8		ng/L	79.09		102	5-130			
Surrogate: 13C5-PFPeA	37.4		ng/L	39.55		94.7	40-130			
Surrogate: 13C5-PFHxA	19.5		ng/L	19.77		98.7	40-130			
Surrogate: 13C4-PFHpA	16.8		ng/L	19.77		85.2	40-130			
Surrogate: 13C8-PFOA	24.1		ng/L	19.77		122	40-130			
Surrogate: 13C9-PFNA	9.45		ng/L	9.887		95.6	40-130			
Surrogate: 13C6-PFDA	9.38		ng/L	9.887		94.9	40-130			
Surrogate: 13C7-PFUnA	8.57		ng/L	9.887		86.7	30-130			
Surrogate: 13C2-PFDoA	7.66		ng/L	9.887		77.5	10-130			
Surrogate: 13C2-PFTeDA	7.03		ng/L	9.887		71.1	10-130			
Surrogate: 13C3-PFBS	15.6		ng/L	19.77		79.0	40-135			
Surrogate: 13C3-PFHxS	19.3		ng/L	19.77		97.5	40-130			
Surrogate: 13C8-PFOS	18.5		ng/L	19.77		93.5	40-130			
Surrogate: 13C2-4:2FTS	35.0		ng/L	39.55		88.6	40-200			
Surrogate: 13C2-6:2FTS	37.4		ng/L	39.55		94.6	40-200			
Surrogate: 13C2-8:2FTS	33.3		ng/L	39.55		84.2	40-300			
Surrogate: 13C8-PFOSA	14.7		ng/L	19.77		74.6	40-130			
Surrogate: D3-NMeFOSA	13.7		ng/L	19.77		69.4	10-130			
Surrogate: D5-NEtFOSA	12.8		ng/L	19.77		64.9	10-130			
Surrogate: D3-NMeFOSAA	34.6		ng/L	39.55		87.4	40-170			
Surrogate: D5-NEtFOSAA	36.3		ng/L	39.55		91.9	25-135			
Surrogate: D7-NMeFOSE	119		ng/L	197.7		60.3	10-130			
Surrogate: D9-NEtFOSE	114		ng/L	197.7		57.5	10-130			
Surrogate: 13C3-HFPO-DA	74.0		ng/L	79.09		93.6	40-130			

LCS (B398628-BS1)

Prepared: 02/12/25 Analyzed: 02/15/25

Perfluorobutanoic acid (PFBA)	86.0	6.3	ng/L	79.03		109	70-140			
Perfluoropentanoic acid (PFPeA)	45.0	3.2	ng/L	39.52		114	65-135			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B398628 - EPA 1633										
LCS (B398628-BS1)										
Prepared: 02/12/25 Analyzed: 02/15/25										
Perfluorohexanoic acid (PFHxA)	22.7	1.6	ng/L	19.76		115	70-145			
Perfluoroheptanoic acid (PFHpA)	21.2	1.6	ng/L	19.76		108	70-150			
Perfluorooctanoic acid (PFOA)	17.9	1.6	ng/L	19.76		90.7	70-150			
Perfluorononanoic acid (PFNA)	21.8	1.6	ng/L	19.76		111	70-150			
Perfluorodecanoic acid (PFDA)	22.2	1.6	ng/L	19.76		113	70-140			
Perfluoroundecanoic acid (PFUnA)	24.1	1.6	ng/L	19.76		122	70-145			
Perfluorododecanoic acid (PFDoA)	22.6	1.6	ng/L	19.76		114	70-140			
Perfluorotridecanoic acid (PFTTrDA)	21.5	1.6	ng/L	19.76		109	65-140			
Perfluorotetradecanoic acid (PFTeDA)	21.7	1.6	ng/L	19.76		110	60-140			
Perfluorobutanesulfonic acid (PFBS)	18.4	1.6	ng/L	17.54		105	60-145			
Perfluoropentanesulfonic acid (PFPeS)	20.8	1.6	ng/L	18.57		112	65-140			
Perfluorohexanesulfonic acid (PFHxS)	17.0	1.6	ng/L	18.02		94.1	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	22.7	1.6	ng/L	18.81		121	70-150			
Perfluorooctanesulfonic acid (PFOS)	19.4	1.6	ng/L	18.34		106	55-150			
Perfluorononanesulfonic acid (PFNS)	18.8	1.6	ng/L	18.97		99.4	65-145			
Perfluorodecanesulfonic acid (PFDS)	18.1	1.6	ng/L	19.05		94.9	60-145			
Perfluorododecanesulfonic acid (PFDoS)	15.6	1.6	ng/L	19.13		81.3	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	94.7	6.3	ng/L	74.05		128	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	96.2	6.3	ng/L	75.16		128	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	101	6.3	ng/L	75.87		134	60-150			
Perfluorooctanesulfonamide (PFOSA)	22.1	1.6	ng/L	19.76		112	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	21.6	1.6	ng/L	19.76		109	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	24.8	1.6	ng/L	19.76		126	65-145			
N-MeFOSAA (NMeFOSAA)	19.0	1.6	ng/L	19.76		96.1	50-140			
N-EtFOSAA (NEtFOSAA)	18.1	1.6	ng/L	19.76		91.5	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	218	16	ng/L	197.6		110	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	222	16	ng/L	197.6		112	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	87.1	6.3	ng/L	79.03		110	70-140			
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	94.1	6.3	ng/L	74.68		126	65-145			
9Cl-PF3ONS (F53B Minor)	82.9	6.3	ng/L	73.74		112	70-155			
11Cl-PF3OUDS (F53B Major)	77.9	6.3	ng/L	73.82		105	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	106	7.9	ng/L	98.79		108	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	570	40	ng/L	493.9		115	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	602	40	ng/L	493.9		122	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	40.8	3.2	ng/L	35.25		116	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	37.5	3.2	ng/L	39.52		94.8	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.3	3.2	ng/L	39.52		102	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	38.0	3.2	ng/L	39.52		96.3	50-150			
Surrogate: 13C4-PFBA	83.3		ng/L	79.03		105	5-130			
Surrogate: 13C5-PFPeA	40.8		ng/L	39.52		103	40-130			
Surrogate: 13C5-PFHxA	20.0		ng/L	19.76		101	40-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B398628 - EPA 1633
LCS (B398628-BS1)

Prepared: 02/12/25 Analyzed: 02/15/25

Surrogate: 13C4-PFHpA	17.9		ng/L	19.76		90.4	40-130			
Surrogate: 13C8-PFOA	24.3		ng/L	19.76		123	40-130			
Surrogate: 13C9-PFNA	10.4		ng/L	9.879		105	40-130			
Surrogate: 13C6-PFDA	9.75		ng/L	9.879		98.7	40-130			
Surrogate: 13C7-PFUnA	8.53		ng/L	9.879		86.3	30-130			
Surrogate: 13C2-PFDoA	8.29		ng/L	9.879		83.9	10-130			
Surrogate: 13C2-PFTeDA	8.20		ng/L	9.879		83.0	10-130			
Surrogate: 13C3-PFBS	18.3		ng/L	19.76		92.6	40-135			
Surrogate: 13C3-PFHxS	20.6		ng/L	19.76		104	40-130			
Surrogate: 13C8-PFOS	20.7		ng/L	19.76		105	40-130			
Surrogate: 13C2-4:2FTS	37.7		ng/L	39.52		95.5	40-200			
Surrogate: 13C2-6:2FTS	39.0		ng/L	39.52		98.6	40-200			
Surrogate: 13C2-8:2FTS	34.2		ng/L	39.52		86.4	40-300			
Surrogate: 13C8-PFOSA	17.6		ng/L	19.76		89.0	40-130			
Surrogate: D3-NMeFOSA	16.8		ng/L	19.76		85.2	10-130			
Surrogate: D5-NEtFOSA	15.1		ng/L	19.76		76.4	10-130			
Surrogate: D3-NMeFOSAA	39.6		ng/L	39.52		100	40-170			
Surrogate: D5-NEtFOSAA	41.0		ng/L	39.52		104	25-135			
Surrogate: D7-NMeFOSE	150		ng/L	197.6		75.8	10-130			
Surrogate: D9-NEtFOSE	143		ng/L	197.6		72.2	10-130			
Surrogate: 13C3-HFPO-DA	78.5		ng/L	79.03		99.3	40-130			

MRL Check (B398628-MRL1)

Prepared: 02/12/25 Analyzed: 02/15/25

Perfluorobutanoic acid (PFBA)	12.6	6.3	ng/L	12.65		99.3	70-140			
Perfluoropentanoic acid (PFPeA)	6.53	3.2	ng/L	6.326		103	65-135			
Perfluorohexanoic acid (PFHxA)	3.13	1.6	ng/L	3.163		98.8	70-145			
Perfluoroheptanoic acid (PFHpA)	3.00	1.6	ng/L	3.163		94.9	70-150			
Perfluorooctanoic acid (PFOA)	2.91	1.6	ng/L	3.163		91.9	70-150			
Perfluorononanoic acid (PFNA)	3.04	1.6	ng/L	3.163		96.0	70-150			
Perfluorodecanoic acid (PFDA)	3.11	1.6	ng/L	3.163		98.4	70-140			
Perfluoroundecanoic acid (PFUnA)	3.12	1.6	ng/L	3.163		98.6	70-145			
Perfluorododecanoic acid (PFDoA)	3.04	1.6	ng/L	3.163		96.1	70-140			
Perfluorotridecanoic acid (PFTrDA)	2.79	1.6	ng/L	3.163		88.2	65-140			
Perfluorotetradecanoic acid (PFTeDA)	3.08	1.6	ng/L	3.163		97.2	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.57	1.6	ng/L	2.809		91.5	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.58	1.6	ng/L	2.973		86.6	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.30	1.6	ng/L	2.884		79.9	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	2.96	1.6	ng/L	3.011		98.2	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.84	1.6	ng/L	2.935		96.8	55-150			
Perfluorononanesulfonic acid (PFNS)	2.44	1.6	ng/L	3.036		80.3	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.22	1.6	ng/L	3.049		72.8	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.11	1.6	ng/L	3.062		69.0	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	13.2	6.3	ng/L	11.85		111	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	12.8	6.3	ng/L	12.03		106	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	14.2	6.3	ng/L	12.15		117	60-150			
Perfluorooctanesulfonamide (PFOSA)	3.18	1.6	ng/L	3.163		101	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	3.30	1.6	ng/L	3.163		104	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	3.54	1.6	ng/L	3.163		112	65-145			
N-MeFOSAA (NMeFOSAA)	3.03	1.6	ng/L	3.163		95.6	50-140			

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 B398628 - EPA 1633										
MRL Check (B398628-MRL1)				Prepared: 02/12/25 Analyzed: 02/15/25						
N-EtFOSAA (NEtFOSAA)	2.62	1.6	ng/L	3.163		82.8	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	30.6	16	ng/L	31.63		96.7	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	31.5	16	ng/L	31.63		99.6	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	12.1	6.3	ng/L	12.65		95.7	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	14.1	6.3	ng/L	11.96		118	65-145			
9Cl-PF3ONS (F53B Minor)	11.8	6.3	ng/L	11.80		100	70-155			
11Cl-PF3OUdS (F53B Major)	10.5	6.3	ng/L	11.82		89.0	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	13.4	7.9	ng/L	15.81		84.7	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	71.0	40	ng/L	79.07		89.7	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	75.3	40	ng/L	79.07		95.2	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.61	3.2	ng/L	5.642		99.5	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.21	3.2	ng/L	6.326		82.4	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.86	3.2	ng/L	6.326		92.6	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.93	3.2	ng/L	6.326		93.8	50-150			
Surrogate: 13C4-PFBA	83.1		ng/L	79.07		105	5-130			
Surrogate: 13C5-PFPeA	40.2		ng/L	39.54		102	40-130			
Surrogate: 13C5-PFHxA	20.2		ng/L	19.77		102	40-130			
Surrogate: 13C4-PFHpA	17.3		ng/L	19.77		87.6	40-130			
Surrogate: 13C8-PFOA	23.3		ng/L	19.77		118	40-130			
Surrogate: 13C9-PFNA	9.47		ng/L	9.884		95.9	40-130			
Surrogate: 13C6-PFDA	9.03		ng/L	9.884		91.4	40-130			
Surrogate: 13C7-PFUnA	8.73		ng/L	9.884		88.3	30-130			
Surrogate: 13C2-PFDoA	8.01		ng/L	9.884		81.1	10-130			
Surrogate: 13C2-PFTeDA	7.50		ng/L	9.884		75.9	10-130			
Surrogate: 13C3-PFBS	16.8		ng/L	19.77		84.8	40-135			
Surrogate: 13C3-PFHxS	19.9		ng/L	19.77		101	40-130			
Surrogate: 13C8-PFOS	19.6		ng/L	19.77		99.4	40-130			
Surrogate: 13C2-4:2FTS	36.1		ng/L	39.54		91.3	40-200			
Surrogate: 13C2-6:2FTS	37.9		ng/L	39.54		95.7	40-200			
Surrogate: 13C2-8:2FTS	34.2		ng/L	39.54		86.6	40-300			
Surrogate: 13C8-PFOA	15.6		ng/L	19.77		78.9	40-130			
Surrogate: D3-NMeFOSA	14.4		ng/L	19.77		72.9	10-130			
Surrogate: D5-NEtFOSA	14.0		ng/L	19.77		70.7	10-130			
Surrogate: D3-NMeFOSAA	35.9		ng/L	39.54		90.8	40-170			
Surrogate: D5-NEtFOSAA	36.9		ng/L	39.54		93.3	25-135			
Surrogate: D7-NMeFOSE	129		ng/L	197.7		65.3	10-130			
Surrogate: D9-NEtFOSE	121		ng/L	197.7		61.0	10-130			
Surrogate: 13C3-HFPO-DA	76.8		ng/L	79.07		97.2	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.
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.
MS-07A2	Matrix spike and spike duplicate recovery is outside of control limits on the low side.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
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-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>Draft Method 1633 in Water</i>	
Perfluorobutanoic acid (PFBA)	NY
Perfluoropentanoic acid (PFPeA)	NY
Perfluorohexanoic acid (PFHxA)	NY
Perfluoroheptanoic acid (PFHpA)	NY
Perfluorooctanoic acid (PFOA)	NY
Perfluorononanoic acid (PFNA)	NY
Perfluorodecanoic acid (PFDA)	NY
Perfluoroundecanoic acid (PFUnA)	NY
Perfluorododecanoic acid (PFDoA)	NY
Perfluorotridecanoic acid (PFTrDA)	NY
Perfluorotetradecanoic acid (PFTeDA)	NY
Perfluorobutanesulfonic acid (PFBS)	NY
Perfluoropentanesulfonic acid (PFPeS)	NY
Perfluorohexanesulfonic acid (PFHxS)	NY
Perfluoroheptanesulfonic acid (PFHpS)	NY
Perfluorooctanesulfonic acid (PFOS)	NY
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NY
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NY
N-MeFOSAA (NMeFOSAA)	NY
N-EtFOSAA (NEtFOSAA)	NY
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NY
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NY
9Cl-PF3ONS (F53B Minor)	NY
11Cl-PF3OUdS (F53B Major)	NY
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NY
Perfluoro-3-methoxypropanoic acid (PFMPA)	NY
<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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
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
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
<i>SW-846 8270E in Water</i>	
1,4-Dioxane	NY,NH,NJ

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270E in Water</i>	
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
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270E in Water</i>	
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

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	04/1/2025
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

2 of 2 COOLERS

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	Effective Date: 06/11/2024

Log In Back-Sheet

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

Client Bamball
 Project NYSDEC Claremont Polychemical Site Q1 Sys Samples
 MCP/RCP Required N/A
 Deliverable Package Requirement N/A
 Location Old Bethpage, New York
 PWSID# (When Applicable) N/A
 Arrival Method:
 Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐
 Received By / Date / Time BNL 2-5-25 0200
 Back-Sheet By / Date / Time SMW 2-5-25 1709
 Temperature Method gln # 6
 WV samples: Yes (see note*) ☒ No (follow normal procedure)
 Temp ☒ < 6° C Actual Temperature 4.1, 8.2
 Rush Samples: Yes ☒ No Notify
 Short Hold: Yes ☒ No Notify

Notes regarding Samples/COC outside of SOP:

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

Additional Container Notes

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

Sample	Soils Jars (Circle Amb/Clear)				Ambers				Plastics							VOA Vials				Other / Fill in					
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	1 Liter		250mL		100mL	500mL		250mL					Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact	Other		
					Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric								NaOH	Ammonium Acetate
1					2					2								2							1
2					2					2								2							1
3					2					2								2							1
4					2					2								2							1
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