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MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE ACTIVITIES (AUGUST 2024)

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

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MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE ACTIVITIES (AUGUST 2024) CLAREMONT POLYCHEMICAL OPERABLE UNIT 5 GROUND WATER TREATMENT SYSTEM, OLD BETHPAGE, NY

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LIST OF ACRONYMS AND ABBRIEVIATIONS

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 August 2024. 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, August 1, 2024, through approximately 0800 hours, September 3, 2024. O&M conducted during this reporting period was guided by the site O&M Manual.

The GWTS – treatment plant, grounds, and well systems - were maintained for the 33 days in this reporting period during which the treatment system experienced 0 minutes of downtime. Readings of the key plant process parameters are normally recorded each workday. These readings and the Human Machine Interface (HMI) flow trend lines are used to monitor the system's performance and condition. Selected readings are recorded in the daily database which is an electronic file maintained in the monthly operating documents folder. If the plant is not occupied,the system is monitored remotely.

The treatment process control and alarm systems are functional. The recovery well pumps, process pumps, and air stripper blower are operated in the automatic mode and are normally remotely controlled and monitored. The RW-3, RW-4 and RW-5 recovery wells were functional during the month of August. However, RW-4 remained offline for the entire period to accommodate granular activated carbon (GAC) treatment system operational limitations (pressure and optimal flow rate). Additionally, RW-5 was intermediately turned off due to high level conditions in the pressure filter feed (PFF) vault due to elevated backpressure across the first carbon unit and reduction in the effluent flow rate.

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 (August 24 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 August activities is further provided in the plant operator's daily logbook.

Maintenance and project activities undertaken during the August period included:

- Routine and general maintenance tasks were conducted at the plant, on the grounds, and in the well fields.
- Single Air Stripper Feed (ASF) pumps were placed into hand mode and frequently switched to cycle their activity.
- The monthly process equipment tests were conducted.
- The Operable Unit 4 (OU4) comprehensive inspections were completed.
- The monthly Process/Recovery Well (RW) system inspection was completed.
- Basin 33 was inspected.
- Basin 1 was inspected.
- The ASF pumps were lubricated, and the seals tightened.
- The OU5 comprehensive inspections were completed.
- The PFF pumps were lubricated, and the seals tightened.
- The fire alarm system components were inspected.
- The monthly electrical device survey was completed.
- The SUNY wellfield was inspected.

1.3 Maintenance Logs

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

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

2. TECHNICAL SUPPORT ACTIVITIES

2.1 GES/Ramboll Personnel

- GES maintained the system throughout the period.

2.2 NYSDEC Personnel, Sub - contractors, and Other Visitors

- On August 8, 2024 Joe Healey (Healey Electric) was on site to troubleshoot PF-2 transfer pump issues.
- On August 15, 2024, Standard Fire Protection LLC was on site to conduct the annual fire extinguisher inspection at OU-4 and OU-5.
- On August 28, 2024 Payson Long (NYSDEC) and Roy Plume (NYSOFPC) were on site for the annual fire inspection at the OU-4 and OU-5 sites.

2.3 Deliveries

- On August 16, and August 30, 2024 Pace Analytical Laboratory delivered coolers for the system sampling events.

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.
- Routine monitoring of GAC treatment system.
- 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.

5. MONITORING WELL WATER ELEVATIONS

The monitoring well system's groundwater elevation data table was updated after the August 2024 quarterly GW elevation recording task. This database is available for review. The next set of synoptic water level measurements will be scheduled for October 2024 and will be conducted by Ramboll.

6. TREATMENT SYSTEM FLOWS

During the August 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 August 2024, recovery well RW-3 has operated normally.

RW-4 was placed offline on May 21, 2024 due to random electrical shutdowns. The pump was restarted on June 14, 2024; however, it shut down on June 19, 2024 due to possible motor starter issues. RW-4 is operational but remained offline during this period to accommodate GAC treatment system operational limitations (pressure and optimal flow rate).

RW-5 was placed online on May 21, 2024, with the pump experiencing motor controls electrical shut down on May 28, 2024. A used motor starter and relay overload were taken from RW-1 controls and installed at RW-5 on June 18, 2024. Subsequently, RW-5 was restarted and has remained operational throughout the remainder of the period. RW-5 was temporarily turned off on July 24, 2024 due to loss of the PF-2 transfer pump, which caused insufficient transfer flow rates. The pump has been operating on and off throughout August period due to limitations of system flow rates related to GAC treatment system flow.

During the month of August, the plant discharge was directed entirely to Recharge Basin # 33.

The total volume of treated water discharged from ~0800 hours August 1, 2024 to ~0800 hours September 3, 2024 was approximately 16,986,000 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 August 2024 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 August of 2024.

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 August of 2024.

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 August of 2024.

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 July of 2024.

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 August 8, 2024 indicate that the analyzed parameters were compliant with permit limits (**Table 6**). As part of the pilot study associated with the GAC treatment system, additional mid-month system sampling was conducted on August 22, 2024 to evaluate the effectiveness of the GAC treatment. Monthly and mid-month 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; and is tentatively scheduled for 4rd Q 2024.

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 pump in recovery well RW-3 experienced an electric malfunction on March 3, 2024. The pump was replaced and put back into operation on April 5, 2024.

Recovery well RW-4 shut down on May 21, 2024, due to possible electrical overload or motor thermal overload. The RW-4 submersible pump remains operational but shuts down unexpectedly. The pump was operational between June 14 and 18, 2024 but placed offline due to random electrical shutdowns. RW-4 remained offline during this period to accommodate GAC treatment system operational limitations (pressure and optimal flow rate).

RW-5 shut down on May 28, 2024 due to motor starter issues. The pump could not be restarted and was pending electrical evaluation. The motor starter was replaced on June 18 and the pump was placed online.

The PF-2 transfer pump in the OU5 GWTS experienced a malfunction on July 23, 2024, and remained offline and was unable to start through the end of July (pending further electrical troubleshooting). The pump was repaired on August 7, 2024 and is operational.

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 4th Q 2024.

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 August 2024 PFAS and 1,4-dioxane influent and effluent results can be found in **Table 7** following the text of this report. Monthly system sampling analytical results are provided in **Attachment 1**.

The August sampling activities included:

- Monthly system sampling was completed on August 8, 2024.
- Mid-month system sampling was completed on August 22, 2024.
- Waste characterization sampling of GAC and air stripper media at OU-4 was completed on August 1, 2024.

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 August 2024 can be found in **Table 8** following the text of this report.

The August 2024 average pH measurement was 7.11 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 August 2024 readings from the AS tower are provided in **Table 10**.

Other routine data collected in August 2024 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. As of April 25, 2024, the GAC system has been online and operational.

13.1 Extraction (RW) Processes

- The monthly system inspection was completed.
- The vault space heating units were reactivated in late December of 2023.
- The recovery well pump system is remotely controlled and monitored, it operates in the auto mode.
- The pump at RW-3 stopped working on March 3, 2024 due to a suspected electrical or mechanical issue. The pump, pump motor and down well wiring were replaced on April 5, 2024.
- 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.
- RW-5 pump experienced electrical issues and shut down on May 28, 2024. The motor starter and relay overload were replaced on June 18, 2024 and the pump has been placed back in automatic operating mode.
- 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 pumps were tested operational 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.

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 visuallyinspected.
- The discharge valves for ASF P1 and P2 appear to be frozen in the open position.

13.3 GAC Monitoring

The GAC treatment system was started on April 26, 2024 using startup procedures developed by Ramboll and GES specifically for that treatment unit. Once started, the GAC unit was online through the end of the reporting period. Going forward while the GAC treatment system is operating, the operator will perform the following routine monitoring of the performance of that system on a daily basis. These operating parameters will be recorded on a Process Data datasheet developed specifically for the GAC treatment unit.

- RW-3 Flow
- RW-4 Flow
- RW-5 Flow
- RW Total Flow
- INF Flow
- ASF Flow
- PFF Pump ON
- GAC Effluent (PFF) Flow
- GAC Influent Pressure (PFF Transfer pumps)
- PV-1 Effluent Pressure
- PV-1 Differential Pressure
- PV-2 Effluent Pressure (GAC Effluent)
- PV-2 Differential Pressure

In an effort to monitor the efficacy of GAC treatment, PFAS will be sampled bi-monthly and 1,4-dioxane sampled monthly during the GAC treatment system pilot study. The first bi-monthly sample collection event each month will coincide with monthly system sampling to avoid sample redundancy. As part of bi-monthly sampling, samples will be collected from the following locations:

- Pre-GAC – collected from the same location as AS influent

- Mid-GAC – from location between GAC vessels
- Post-GAC – from location following second GAC vessel (new system effluent location)

13.4 PD Process

- The plant discharge flow was 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 experienced operational malfunction on July 23, 2024. The pump was repaired on August 7, 2024 and is operational.
- Pump PF-3 remains fully functional.
- The motors and seals were lubricated as necessary.
- The discharge valve for PFF P3 has failed open.
- The plant was shut down between March 28 and April 4, 2024 to install discharge bypass lines in anticipation of GAC vessel install.

13.5 Other

- The plant's first bank of lights is wired to the emergency-light recharging system. The circuit is kept on 24/7. The lamps appear burnt out. The second bank of lights provides sufficient lighting for general tasks. Additional work lights were installed around the plant area to further illuminate work areas.
- The potential for leaks in the water supply line running through the plant will continue to be monitored.
- The fire alarm and central monitoring systems are fully functional. A false fire alarm was sent out on May 16, 2024 due to full power loss at the OU-5 plant and neighboring properties.

14. GROUNDS

14.1 Plant Perimeter

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

14.2 Well Field

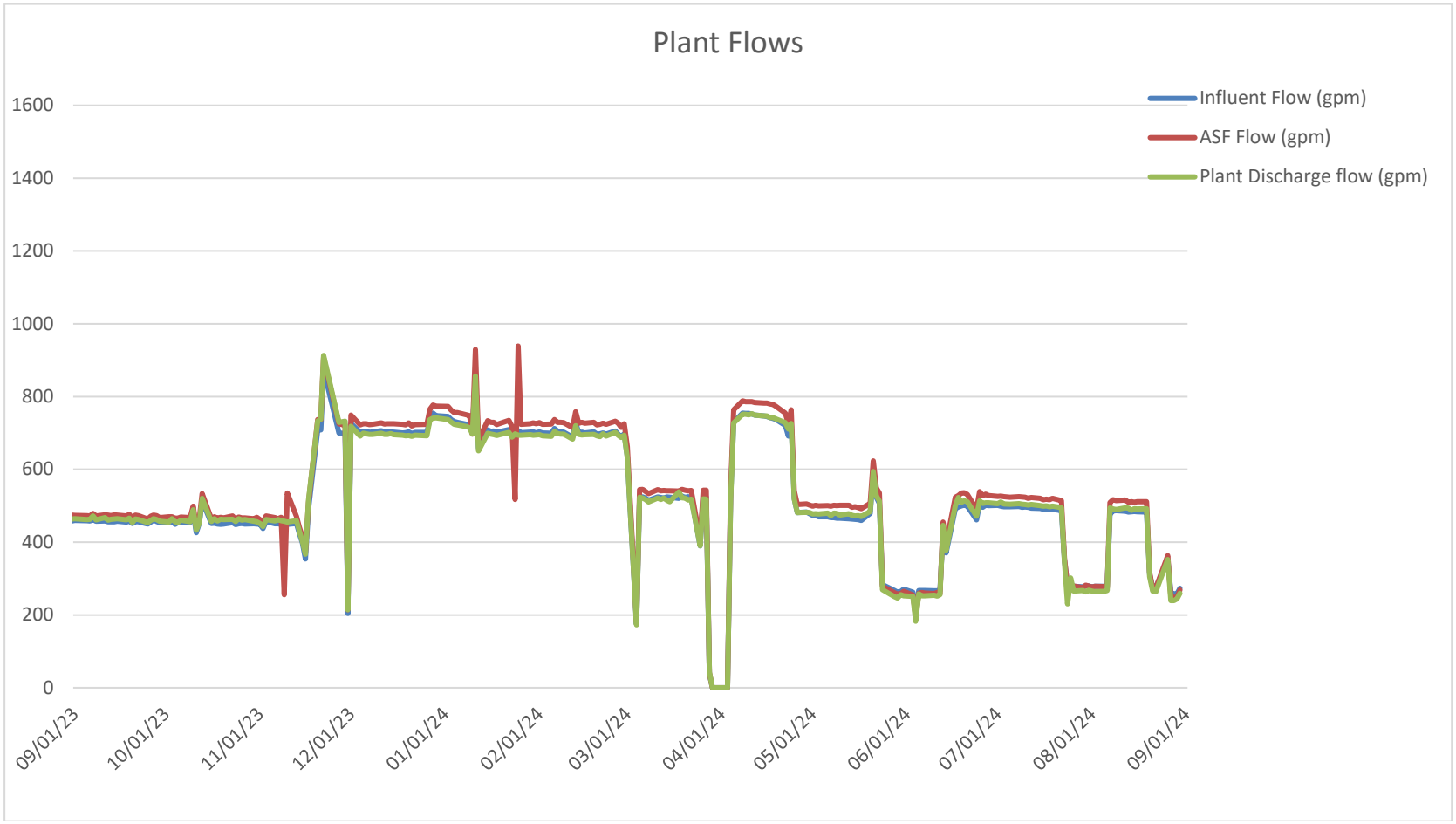
- Well field, and recharge basin inspections continue. Quarterly groundskeeping activities are performed to clear vegetation and poison ivy from around all well fields in anticipation of quarterly groundwater sampling events. In addition, the entrance to Recharge Basin 33 is maintained for ease of access.

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.**	Plant staff and outside contractors	Possible shutdown	May require a Confined Space Entry (CSE)
AS Tower main drain valve is not controlled	The valve does not respond to manipulation of its actuator. ***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

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
OU4 fire alarm system is not functioning Central monitoring of the fire alarm system or fire suppression system does not exist OU4 electrical system has been unstable	The Nassau County Fire Code indicates that the sprinkler system must have central monitoring for flow and valve tampering. The fire alarm system needs to be replaced and centrally monitored. Several contractors have been at the site to propose options for the system. BK Fire installed central monitoring on the sprinkler system. Both are offline as the sprinkler system will remain drained until the HVAC system is repaired. Certain OU4 lights currently create a large amount of noise in the fan box within the control room. The southern lights flicker and then die including the emergency system. OU4 is currently being planned for demolition.	Plant operator, Electrical Engineer (EE) and outside vender	None at this time	Fire code violations. High altitude tasks, safety code violations
Several leaks were observed in the plant overhead water supply line	Adjacent to the north door a clam-shell type clamp was applied. The second leak observed above the AS Blower is not readily accessible. It is not problematic. ***Repair work may require evaluation and outside resources. Currently the situation is controlled.***	Outside plumbing contractor	None	Sanitary water may be shut off during repairs
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	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
	past, they were spliced outside the box. The float switches have been replaced and spliced above the sump but there remains a problem with the L2 circuit. The output from the W-2 relay was moved to the output for the W-1 relay. This has stopped the short cycling. ***The control wiring should be changed and moved above grade. Currently the second splices to the floats are above ground outside the vault.***			
PFF P1 has failed PFF P2 has failed	The pump when activated immediately makes a lot of noise, and the pump drop pipe shakes. Smoke/ fumes emanated at the Motor-shaft connection. The motor appears to be good. The pump was removed from service, February 24, 2020. Pump PF-2 has failed and is currently pending electrical troubleshooting. Repaired on August 7, 2024 ***It is recommended that the motor be disconnected, lifted, and the mechanical connection checked.***	Outside contractors	Less water is being treated.	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***	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

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	equipment and variable frequency controls were discussed.			
The flowmeters for system flow, ASF flow and plant discharge are out of sync with the flow meters on the recovery wells	While the ASF flow meter is the most out of line, it is plumbed correctly. The influent system flow meter and the plant discharge flow meters are piped incorrectly. The same style of relay is used to count pulses, but the meters have not been calibrated. **The system needs further investigation to determine if any changes are warranted.**	EE support	To be determined	none
EF-4 is not operable	The fan is controlled through the mezzanine thermostat, but it does not appear to be operating. The fan requires electrical testing. **The system was checked, it appears that the fan is not functioning. The fan should be replaced.**	EE support	Only in an emergency	Only in an emergency
Wiring nests in main control console	**The wiring in the main control console needs to be cleaned up and labeled, to facilitate problem troubleshooting and process improvements.**	EE support	A shut down may be necessary	Electrical work
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

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
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
Plant Electric Heater UH-3 failure and HVAC system performance	During sub-20 deg.F weather, the emergency electric heater failed. The HVAC system struggled to produce heat and the plant temperatures dipped to around mid-30's during that time.	Outside contractor	Water lines freezing	Equipment damage
RW-3 has failed	On March 3, 2024 the pump motor failed and remains offline until replacement activities can occur. Pump and motor were replaced on April 5, 2024.	Plant Operator and Ramboll	Less water is treated	To be determined
RW-4 has failed	On May 21, 2024 the pump motor experience unexpected shut downs. The pump was tested to be operational, but full electrical testing is needed.	Outside contractor	Less water is treated	To be determined
RW-5 has failed	On May 28, 2024 the pump motor controls experienced electrical issues. Electric motor starter and relay overload were replaced on June 18, 2024 and the pump was placed online.	GES Mechanical Support	Less water is treated	Electrical shock
GAC Treatment increased operational pressures	The primary GAC vessels is operating at elevated backpressure and requires blowback due to sediment accumulation.	Plant Operator and outside contractor	Less water is treated through GAC	To be determined

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 appear to have failed/burnt out. The second bank of lights are sufficient
Plant exhaust fans are part of methane system	Fans cannot be manually operated	Once the methane monitoring system is online, the fans can be operated
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 vailed 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
July 2024	437	628,548	19,485,000	35	44,605
August 2024	357	514,727	16,986,000	0	47,520

Acronyms: gal – gallons gpm – gallons per minute,

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

Table 3
Plant Daily Totalizer Readings

August 2024 Flows						
	Plant Influent		Plant Discharge		RW Discharge	
Date	Volume	Avg. Flow	Volume	Avg. Flow	Volume	Avg. Flow
08/01/24	-	279	-	268	-	280
08/02/24	398,000	276	383,000	266	399,000	277
08/05/24	1,203,000	278	1,140,000	264	1,204,000	279
08/06/24	400,000	278	381,000	265	401,000	278
08/07/24	396,000	275	385,000	267	402,000	279
08/08/24	733,000	509	712,000	494	687,000	477
08/09/24	744,000	517	707,000	491	700,000	486
08/12/24	2,221,000	514	2,128,000	493	2,102,000	487
08/13/24	743,000	516	712,000	494	699,000	485
08/14/24	734,000	510	711,000	494	695,000	483
08/15/24	736,000	511	702,000	488	696,000	483
08/16/24	734,000	510	709,000	492	697,000	484
08/19/24	2,209,000	511	2,123,000	491	2,088,000	483
08/20/24	736,000	511	709,000	492	695,000	483
08/21/24	457,000	317	440,000	306	450,000	313
08/22/24	390,000	271	383,000	266	396,000	275
08/23/24	396,000	275	379,000	263	398,000	276
08/26/24	1,280,000	296	1,238,000	287	1,274,000	295
08/27/24	523,000	363	507,000	352	509,000	353
08/28/24	363,000	252	345,000	240	377,000	262
08/29/24	357,000	248	345,000	240	372,000	258
08/30/24	357,000	248	352,000	244	372,000	258
09/03/24	1,547,000	269	1,495,000	260	1,576,000	274
		August Total Plant **Influent** (Gal)		17,657,000		
		August Total Plant **Effluent** (Gal)		16,986,000		
		August Total **RW Discharge** (Gal)		17,189,000		

Acronyms: gal - gallons gpm – gallons per minute

Table 4
Pump System Flow Readings

July	On-Time Minutes (actual)	Avg. Flow (gpm)	Avg. Flow (gpd)	Total Flow (gal)
RW-1*	0	NR	0	0
RW-2*	5	NR	0	~1,045
RW-3	47,520	264	380,788	12,566,000
RW-4	116	0	848	28,000
RW-5	25,920	189	148,091	4,887,000
RW Totals	47,520	362	520,879	17,189,000
Plant Influent	47,520	372	535,061	17,657,000
Plant Effluent	47,520	357	514,727	16,986,000

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

The treatment process was online 33 days during this period with 0 minutes of downtime. Treatment system experience multiple instances of influent to effluent transfer flow imbalance due to higher pressures at carbon vessels. Influent flow rate was reduced to keep the system from overfilling.

RW-4 has shut down on May 21, 2024 due to electrical overloads at the pump. Pump was tested to be operational, but will remain offline until further electrical testing can be conducted.

RW-5 has been temporarily shut down on April 25, 2024 to reduce flow in order for the GAC filtration to work properly. Pump was restarted on May 21, 2024 until electrical controls issues were encountered on May 28, 2024. The controls were replaced on June 18, 2024 and the pump has been restarted and operational. The pump was placed offline on July 24, 2024 due to reduced transfer flow at the treatment facility due to PF-2 pump malfunction. During August reporting period, RW-5 was periodically placed offline based on backpressures and flows at the GAC treatment system.

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

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

Measurement / Analyte	Sampling Location			
	System Influent	Plant Discharge	Recovery Wells	Monitoring Wells
Flow	Daily	Daily	Daily	NA
pH	Quarterly	Weekly	Quarterly	Quarterly
VOCs (+Tert-Butyl-Methyl ether (MTBA) & Tert-butyl alcohol (TBA))	Quarterly	Monthly	Quarterly	Quarterly
Semi-Volatile Organic Compound (SVOC) Base Neutral & Acid Extractables (BNA)	Quarterly	Monthly	NS	NS
Per- and polyfluoroalkyl substances (PFAS)	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
August 8, 2024

Parameters	Discharge Limitations (SPDES)	Units	Results
pH (range)	*6.5 – 8.5*	*su*	*7.11*
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
August 8 and August 22, 2024

Parameters	Guidance Values	Units	Influent / Pre-GAC Results	Mid-GAC Results	Effluent / Post-GAC Results
August 8, 2024 Sampling					
PFOA	6.7[1]	ng/l	46	14	U
PFOS	2.7[1]	ng/l	20	1.8	U
1,4-Dioxane	0.35[1]	ug/l	19	20	25
August 22, 2024 Sampling					
PFOA	6.7[1]	ng/l	49	20	U
PFOS	2.7[1]	ng/l	17	3.8	U

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 (^{o}C)
08/09/2024	6.97	20.6
08/14/2024	6.95	18.3
08/21/2024	7.26	17.1
08/28/2024	7.25	18.2
August Average	**7.11 su**	**18.6 ^{o}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

Plant Discharge Monthly Average pH Reading

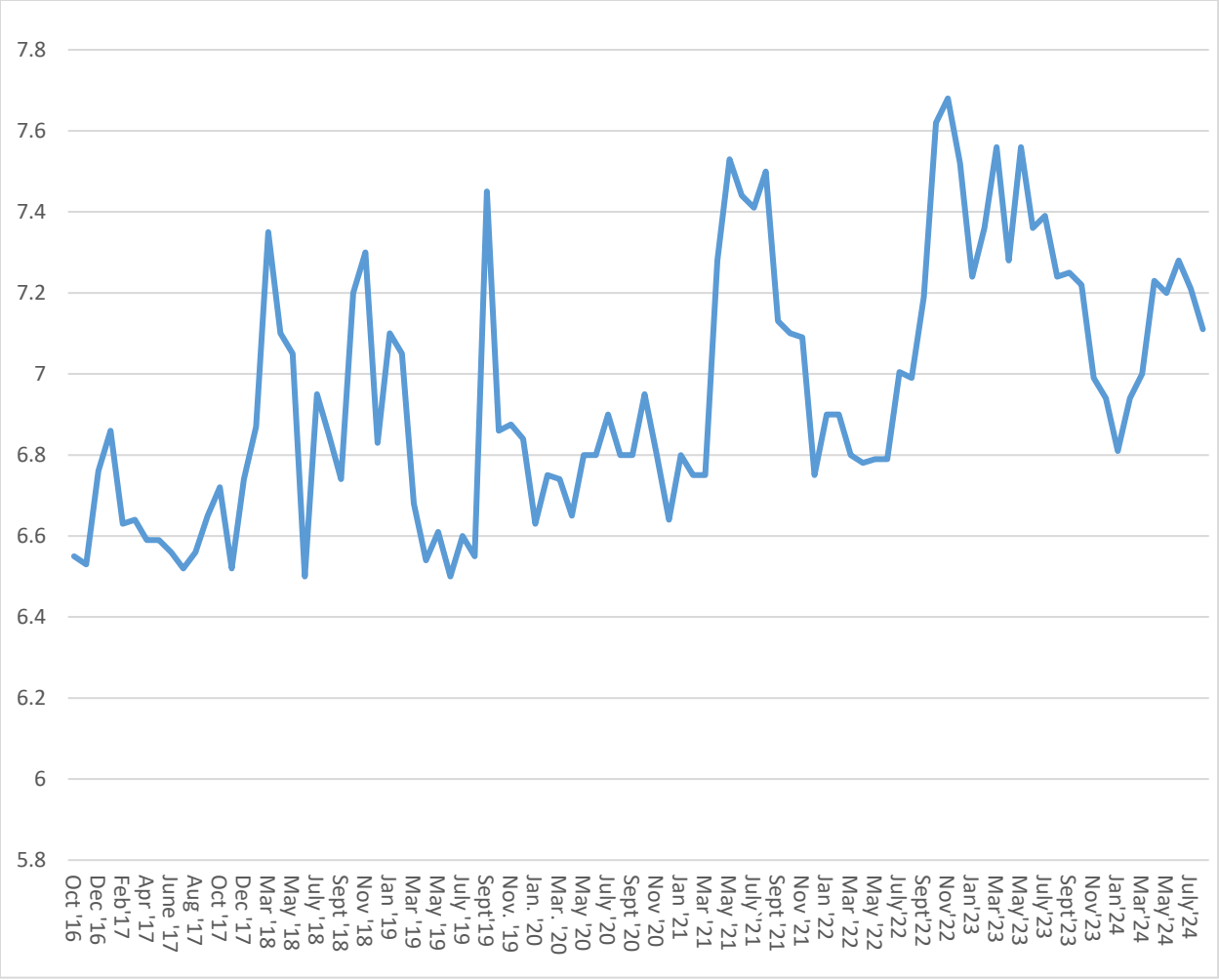


Table 10
AS Tower Air Monitoring Readings

Recorded Date	Port B (ppm)
08/02/24	0.0
08/09/24	0.0
08/14/24	0.1
08/21/24	0.0
08/28/24	0.0

ATTACHMENT 1
MONTHLY O&M SAMPLING ANALYTICAL RESULTS –AUGUST 8, 2024

con-test®
A Pace Analytical® Laboratory

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

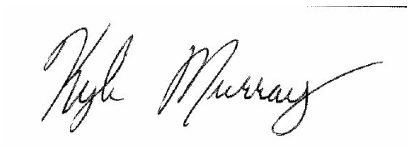
September 9, 2024

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

Project Location: Old Bethpage, NY
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 24H1469

Enclosed are results of analyses for samples as received by the laboratory on August 9, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

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

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

REPORT DATE: 9/9/2024

PURCHASE ORDER NUMBER: 151811

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24H1469

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

PROJECT LOCATION: Old Bethpage, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PD-CP-00-080824	24H1469-01	Ground Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
PD-CP-01-080824	24H1469-02	Ground Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
ASF-CP-00-080824	24H1469-03	Ground Water		Draft Method 1633	
				SW-846 8270E	
ASF-CP-01-080824	24H1469-04	Ground Water		Draft Method 1633	
				SW-846 8270E	
TB-080824	24H1469-05	Trip Blank Water		SW-846 8260D	
MIDGAC-CP-00-0808024	24H1469-06	Ground Water		Draft Method 1633	
				SW-846 8270E	

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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-17C

Extracted internal standard is outside of control limits. Analyte is a known difficult compound.

Analyte & Samples(s) Qualified:

13C2-4:2FTS
24H1469-02[PD-CP-01-080824]

1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FT
24H1469-02[PD-CP-01-080824]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

13C8-PFOA
24H1469-03[ASF-CP-00-080824], 24H1469-04[ASF-CP-01-080824]

Perfluorooctanoic acid (PFOA)
24H1469-03[ASF-CP-00-080824], 24H1469-04[ASF-CP-01-080824]

V-20

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

Analyte & Samples(s) Qualified:

Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
S109445-CCV2, S109445-CCV3

SW-846 8270E

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

24H1469-01RE1[PD-CP-00-080824], 24H1469-02RE1[PD-CP-01-080824], 24H1469-03RE1[ASF-CP-00-080824]

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
24H1469-01[PD-CP-00-080824], 24H1469-02[PD-CP-01-080824], B382618-BLK1, B382618-BS1, B382618-BSD1

Hexachlorobutadiene
24H1469-01[PD-CP-00-080824], 24H1469-02[PD-CP-01-080824], B382618-BLK1, B382618-BS1, B382618-BSD1

Hexachloroethane
24H1469-01[PD-CP-00-080824], 24H1469-02[PD-CP-01-080824], B382618-BLK1, B382618-BS1, B382618-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
B382618-BS1, B382618-BSD1

2-Chlorophenol
B382618-BS1, B382618-BSD1

4-Chloroaniline
B382618-BS1, B382618-BSD1

Phenol
B382618-BS1, B382618-BSD1

S-10

Sample was re-extracted outside of holding time since surrogate standard recovery was outside of control limits. Data from analysis performed outside of holding time is also reported since surrogate recovery is acceptable.

Analyte & Samples(s) Qualified:

1,4-Dioxane-d8
24H1469-01[PD-CP-00-080824], 24H1469-02[PD-CP-01-080824], 24H1469-03[ASF-CP-00-080824]

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S-26

Surrogate outside of control limits.

Analyte & Samples(s) Qualified:

1,4-Dioxane-d8
B382612-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
24H1469-01[PD-CP-00-080824], 24H1469-02[PD-CP-01-080824], B382618-BLK1, B382618-BS1, B382618-BSD1, S108890-CCV1, S108966-CCV1

Di-n-octylphthalate
24H1469-01[PD-CP-00-080824], 24H1469-02[PD-CP-01-080824], B382618-BLK1, B382618-BS1, B382618-BSD1, S108890-CCV1, S108966-CCV1

V-05

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

Analyte & Samples(s) Qualified:

Aniline
24H1469-01[PD-CP-00-080824], 24H1469-02[PD-CP-01-080824], B382618-BLK1, B382618-BS1, B382618-BSD1, S108890-CCV1, S108966-CCV1

Benzaldehyde
B382618-BLK1, B382618-BS1, B382618-BSD1, S108890-CCV2

Caprolactam
24H1469-01[PD-CP-00-080824], 24H1469-02[PD-CP-01-080824], S108966-CCV2

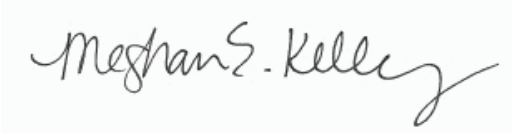
V-34

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
24H1469-01[PD-CP-00-080824], 24H1469-02[PD-CP-01-080824], B382618-BLK1, B382618-BS1, B382618-BSD1, S099947-ICV1, S108890-CCV1, S108966-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

con-test®
A Pace Analytical® Laboratory

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

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-00-080824

Sample ID: 24H1469-01 | Start Date/Time: 8/8/2024 1:00:00PM

Sample Matrix: Ground Water | Stop Date/Time: 8/8/2024 1:15:00PM

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	8/9/24	8/13/24 12:45	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-00-080824

Sample ID: 24H1469-01 | Start Date/Time: 8/8/2024 1:00:00PM

Sample Matrix: Ground Water | Stop Date/Time: 8/8/2024 1:15:00PM

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	8/9/24	8/13/24 12:45	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 12:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.7	70-130		8/13/24 12:45
Toluene-d8	96.6	70-130		8/13/24 12:45
4-Bromofluorobenzene	107	70-130		8/13/24 12:45

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-00-080824

Sample ID: 24H1469-01 | Start Date/Time: 8/8/2024 1:00:00PM

Sample Matrix: Ground Water | Stop Date/Time: 8/8/2024 1:15:00PM

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	8/12/24	8/14/24 16:15	KMC
Atrazine	ND	18	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Benzaldehyde	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Biphenyl	ND	18	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Caprolactam	ND	9.1	µg/L	1	L-04, V-05	SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Acenaphthene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Acenaphthylene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Acetophenone	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Aniline	ND	18	µg/L	1	V-05, V-34	SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Anthracene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Benzo(a)anthracene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Benzo(a)pyrene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Benzo(b)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Benzo(g,h,i)perylene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Benzo(k)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Bis(2-chloroethoxy)methane	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Bis(2-chloroethyl)ether	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Bis(2-chloroisopropyl)ether	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Bis(2-Ethylhexyl)phthalate	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
4-Bromophenylphenylether	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Butylbenzylphthalate	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Carbazole	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
4-Chloroaniline	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
4-Chloro-3-methylphenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2-Chloronaphthalene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2-Chlorophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
4-Chlorophenylphenylether	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Chrysene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Dibenz(a,h)anthracene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Di-n-butylphthalate	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
3,3-Dichlorobenzidine	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2,4-Dichlorophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Diethylphthalate	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2,4-Dimethylphenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Dimethylphthalate	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2,4-Dinitrophenol	ND	9.1	µg/L	1	V-04	SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2,4-Dinitrotoluene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2,6-Dinitrotoluene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Di-n-octylphthalate	ND	9.1	µg/L	1	V-04	SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Fluorene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Hexachlorobenzene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-00-080824

Sample ID: 24H1469-01 | Start Date/Time: 8/8/2024 1:00:00PM

Sample Matrix: Ground Water | Stop Date/Time: 8/8/2024 1:15:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.1	µg/L	1	L-04	SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Hexachlorocyclopentadiene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Hexachloroethane	ND	9.1	µg/L	1	L-04	SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Indeno(1,2,3-cd)pyrene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Isophorone	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
1-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2-Methylphenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
3/4-Methylphenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Naphthalene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
3-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
4-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Nitrobenzene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2-Nitrophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
4-Nitrophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
N-Nitrosodi-n-propylamine	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Pentachlorophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Phenanthrene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Phenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Pyrene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
Pyridine	ND	18	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
1,2,4,5-Tetrachlorobenzene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2,4,5-Trichlorophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC
2,4,6-Trichlorophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:15	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	49.4	15-110		8/14/24 16:15
Phenol-d6	30.1	15-110		8/14/24 16:15
Nitrobenzene-d5	66.5	30-130		8/14/24 16:15
2-Fluorobiphenyl	70.2	30-130		8/14/24 16:15
2,4,6-Tribromophenol	73.8	15-110		8/14/24 16:15
p-Terphenyl-d14	90.5	30-130		8/14/24 16:15

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-00-080824

Sample ID: 24H1469-01 | Start Date/Time: 8/8/2024 1:00:00PM

Sample Matrix: Ground Water | Stop Date/Time: 8/8/2024 1:15:00PM

Sample Flags: H-06

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	25	0.19	µg/L	1		SW-846 8270E	8/28/24	9/9/24 10:52	GJB
1,4-Dioxane	24	0.19	µg/L	1		SW-846 8270E	8/12/24	8/27/24 17:49	GJB

Surrogates	% Recovery		Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	**6.35**	*	15-110	S-10		8/27/24 17:49
1,4-Dioxane-d8	24.0		15-110			9/9/24 10:52

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-00-080824

Sample ID: 24H1469-01 | Start Date/Time: 8/8/2024 1:00:00PM

Sample Matrix: Ground Water | Stop Date/Time: 8/8/2024 1:15:00PM

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	24	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorooctanoic acid (PFOA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorononanoic acid (PFNA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorodecanoic acid (PFDA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.92	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.2	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.2	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.2	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS

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

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-00-080824

Sample ID: 24H1469-01 | Start Date/Time: 8/8/2024 1:00:00PM

Sample Matrix: Ground Water | Stop Date/Time: 8/8/2024 1:15:00PM

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:36	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	70.5	10-130		8/23/24 18:36
13C5-PFPeA	74.8	35-150		8/23/24 18:36
13C5-PFHxA	68.9	55-150		8/23/24 18:36
13C4-PFHpA	68.6	55-150		8/23/24 18:36
13C8-PFOA	65.5	60-140		8/23/24 18:36
13C9-PFNA	68.9	55-140		8/23/24 18:36
13C6-PFDA	66.6	50-140		8/23/24 18:36
13C7-PFUnA	66.6	30-140		8/23/24 18:36
13C2-PFDoA	58.7	10-150		8/23/24 18:36
13C2-PFTeDA	54.7	10-130		8/23/24 18:36
13C3-PFBS	75.5	55-150		8/23/24 18:36
13C3-PFHxS	68.3	55-150		8/23/24 18:36
13C8-PFOS	69.5	45-140		8/23/24 18:36
13C2-4:2FTS	62.0	60-200		8/23/24 18:36
13C2-6:2FTS	64.0	60-200		8/23/24 18:36
13C2-8:2FTS	57.6	50-200		8/23/24 18:36
13C8-PFOSA	63.7	30-130		8/23/24 18:36
D3-NMeFOSA	54.4	15-130		8/23/24 18:36
D5-NEtFOSA	54.2	10-130		8/23/24 18:36
D3-NMeFOSAA	65.2	45-200		8/23/24 18:36
D5-NEtFOSAA	62.3	10-200		8/23/24 18:36
D7-NMeFOSE	51.7	10-150		8/23/24 18:36
D9-NEtFOSE	48.2	10-150		8/23/24 18:36
13C3-HFPO-DA	83.2	25-160		8/23/24 18:36

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-00-080824

Sample ID: 24H1469-01 | Start Date/Time: 8/8/2024 1:00:00PM

Sample Matrix: Ground Water | Stop Date/Time: 8/8/2024 1:15:00PM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	8/12/24	8/12/24 10:22	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-01-080824 | Sampled: 8/8/2024 13:00

Sample ID: 24H1469-02

Sample Matrix: Ground 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	8/9/24	8/13/24 13:11	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-01-080824 | Sampled: 8/8/2024 13:00

Sample ID: 24H1469-02

Sample Matrix: Ground 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	8/9/24	8/13/24 13:11	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 13:11	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.9	70-130		8/13/24 13:11
Toluene-d8	97.6	70-130		8/13/24 13:11
4-Bromofluorobenzene	105	70-130		8/13/24 13:11

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-01-080824 | Sampled: 8/8/2024 13:00

Sample ID: 24H1469-02

Sample Matrix: Ground 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	8/12/24	8/14/24 16:36	KMC
Atrazine	ND	18	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Benzaldehyde	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Biphenyl	ND	18	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Caprolactam	ND	9.1	µg/L	1	L-04, V-05	SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Acenaphthene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Acenaphthylene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Acetophenone	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Aniline	ND	18	µg/L	1	V-05, V-34	SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Anthracene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Benzo(a)anthracene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Benzo(a)pyrene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Benzo(b)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Benzo(g,h,i)perylene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Benzo(k)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Bis(2-chloroethoxy)methane	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Bis(2-chloroethyl)ether	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Bis(2-chloroisopropyl)ether	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Bis(2-Ethylhexyl)phthalate	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
4-Bromophenylphenylether	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Butylbenzylphthalate	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Carbazole	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
4-Chloroaniline	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
4-Chloro-3-methylphenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2-Chloronaphthalene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2-Chlorophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
4-Chlorophenylphenylether	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Chrysene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Dibenz(a,h)anthracene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Di-n-butylphthalate	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
3,3-Dichlorobenzidine	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2,4-Dichlorophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Diethylphthalate	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2,4-Dimethylphenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Dimethylphthalate	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2,4-Dinitrophenol	ND	9.1	µg/L	1	V-04	SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2,4-Dinitrotoluene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2,6-Dinitrotoluene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Di-n-octylphthalate	ND	9.1	µg/L	1	V-04	SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Fluorene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Hexachlorobenzene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-01-080824 | Sampled: 8/8/2024 13:00

Sample ID: 24H1469-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.1	µg/L	1	L-04	SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Hexachlorocyclopentadiene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Hexachloroethane	ND	9.1	µg/L	1	L-04	SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Indeno(1,2,3-cd)pyrene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Isophorone	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
1-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2-Methylphenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
3/4-Methylphenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Naphthalene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
3-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
4-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Nitrobenzene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2-Nitrophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
4-Nitrophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
N-Nitrosodiphenylamine/Diphenylamine	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
N-Nitrosodi-n-propylamine	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Pentachlorophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Phenanthrene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Phenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Pyrene	ND	4.5	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
Pyridine	ND	18	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
1,2,4,5-Tetrachlorobenzene	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2,4,5-Trichlorophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC
2,4,6-Trichlorophenol	ND	9.1	µg/L	1		SW-846 8270E	8/12/24	8/14/24 16:36	KMC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	49.8	15-110		8/14/24 16:36
Phenol-d6	29.6	15-110		8/14/24 16:36
Nitrobenzene-d5	66.2	30-130		8/14/24 16:36
2-Fluorobiphenyl	71.3	30-130		8/14/24 16:36
2,4,6-Tribromophenol	73.3	15-110		8/14/24 16:36
p-Terphenyl-d14	86.0	30-130		8/14/24 16:36

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-01-080824 | Sampled: 8/8/2024 13:00

Sample ID: 24H1469-02

Sample Matrix: Ground 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	ND	0.19	µg/L	1		SW-846 8270E	8/12/24	8/27/24 18:09	GJB
1,4-Dioxane	25	0.19	µg/L	1		SW-846 8270E	8/28/24	9/9/24 11:13	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	*	15-110	S-10	8/27/24 18:09
1,4-Dioxane-d8	26.7	15-110		9/9/24 11:13

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-01-080824 | Sampled: 8/8/2024 13:00

Sample ID: 24H1469-02

Sample Matrix: Ground 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)	25	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.9	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorooctanoic acid (PFOA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorononanoic acid (PFNA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorodecanoic acid (PFDA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	ng/L	1	PF-17C	Draft Method 1633	8/23/24	8/23/24 18:52	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.3	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.3	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-01-080824 | Sampled: 8/8/2024 13:00

Sample ID: 24H1469-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L	1		Draft Method 1633	8/23/24	8/23/24 18:52	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	66.1		10-130		8/23/24 18:52
13C5-PFPeA	69.8		35-150		8/23/24 18:52
13C5-PFHxA	65.1		55-150		8/23/24 18:52
13C4-PFHpA	64.8		55-150		8/23/24 18:52
13C8-PFOA	61.0		60-140		8/23/24 18:52
13C9-PFNA	61.6		55-140		8/23/24 18:52
13C6-PFDA	62.8		50-140		8/23/24 18:52
13C7-PFUnA	58.5		30-140		8/23/24 18:52
13C2-PFDoA	52.6		10-150		8/23/24 18:52
13C2-PFTeDA	48.2		10-130		8/23/24 18:52
13C3-PFBS	67.0		55-150		8/23/24 18:52
13C3-PFHxS	63.0		55-150		8/23/24 18:52
13C8-PFOS	61.5		45-140		8/23/24 18:52
13C2-4:2FTS	**59.7**	*	60-200	PF-17C	8/23/24 18:52
13C2-6:2FTS	60.3		60-200		8/23/24 18:52
13C2-8:2FTS	52.3		50-200		8/23/24 18:52
13C8-PFOSA	55.0		30-130		8/23/24 18:52
D3-NMeFOSA	43.9		15-130		8/23/24 18:52
D5-NEtFOSA	43.7		10-130		8/23/24 18:52
D3-NMeFOSAA	55.9		45-200		8/23/24 18:52
D5-NEtFOSAA	52.0		10-200		8/23/24 18:52
D7-NMeFOSE	43.7		10-150		8/23/24 18:52
D9-NEtFOSE	40.4		10-150		8/23/24 18:52
13C3-HFPO-DA	77.2		25-160		8/23/24 18:52

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: PD-CP-01-080824 | Sampled: 8/8/2024 13:00

Sample ID: 24H1469-02

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	8/12/24	8/12/24 10:22	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: ASF-CP-00-080824 | Sampled: 8/8/2024 13:45

Sample ID: 24H1469-03

Sample Matrix: Ground Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	19	0.19	µg/L	1		SW-846 8270E	8/28/24	9/9/24 11:32	GJB
1,4-Dioxane	16	0.19	µg/L	1		SW-846 8270E	8/12/24	8/27/24 18:29	GJB

Surrogates	% Recovery		Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	20.4		15-110		9/9/24 11:32	
1,4-Dioxane-d8	**5.66**	*	15-110	S-10	8/27/24 18:29	

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: ASF-CP-00-080824 | Sampled: 8/8/2024 13:45

Sample ID: 24H1469-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	30	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluoropentanoic acid (PFPeA)	24	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorohexanoic acid (PFHxA)	30	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluoroheptanoic acid (PFHpA)	14	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorooctanoic acid (PFOA)	46	0.91	ng/L	1	S-29	Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorononanoic acid (PFNA)	37	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorodecanoic acid (PFDA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorobutanesulfonic acid (PFBS)	5.2	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluoropentanesulfonic acid (PFPeS)	3.3	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorohexanesulfonic acid (PFHxS)	11	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorooctanesulfonic acid (PFOS)	20	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
N-EtFOSAA (NEtFOSAA)	2.3	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.1	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: ASF-CP-00-080824 | Sampled: 8/8/2024 13:45

Sample ID: 24H1469-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:08	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	63.2		10-130		8/23/24 19:08
13C5-PFPeA	63.5		35-150		8/23/24 19:08
13C5-PFHxA	60.6		55-150		8/23/24 19:08
13C4-PFHpA	62.1		55-150		8/23/24 19:08
13C8-PFOA	**57.4**	*	60-140	S-29	8/23/24 19:08
13C9-PFNA	59.1		55-140		8/23/24 19:08
13C6-PFDA	58.1		50-140		8/23/24 19:08
13C7-PFUnA	52.7		30-140		8/23/24 19:08
13C2-PFDoA	45.6		10-150		8/23/24 19:08
13C2-PFTeDA	38.0		10-130		8/23/24 19:08
13C3-PFBS	65.4		55-150		8/23/24 19:08
13C3-PFHxS	61.5		55-150		8/23/24 19:08
13C8-PFOS	56.3		45-140		8/23/24 19:08
13C2-4:2FTS	90.7		60-200		8/23/24 19:08
13C2-6:2FTS	68.2		60-200		8/23/24 19:08
13C2-8:2FTS	51.1		50-200		8/23/24 19:08
13C8-PFOSA	49.1		30-130		8/23/24 19:08
D3-NMeFOSA	40.3		15-130		8/23/24 19:08
D5-NEtFOSA	39.2		10-130		8/23/24 19:08
D3-NMeFOSAA	51.4		45-200		8/23/24 19:08
D5-NEtFOSAA	48.0		10-200		8/23/24 19:08
D7-NMeFOSE	34.1		10-150		8/23/24 19:08
D9-NEtFOSE	28.1		10-150		8/23/24 19:08
13C3-HFPO-DA	70.4		25-160		8/23/24 19:08

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: ASF-CP-00-080824 | Sampled: 8/8/2024 13:45

Sample ID: 24H1469-03

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	16	10	mg/L	1		Draft Method 1633	8/12/24	8/12/24 10:22	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: ASF-CP-01-080824 | Sampled: 8/8/2024 13:45

Sample ID: 24H1469-04

Sample Matrix: Ground 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	16	0.19	µg/L	1		SW-846 8270E	8/12/24	8/27/24 18:49	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	21.5	15-110		8/27/24 18:49

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: ASF-CP-01-080824 | Sampled: 8/8/2024 13:45

Sample ID: 24H1469-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	30	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluoropentanoic acid (PFPeA)	25	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorohexanoic acid (PFHxA)	29	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluoroheptanoic acid (PFHpA)	14	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorooctanoic acid (PFOA)	44	0.91	ng/L	1	S-29	Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorononanoic acid (PFNA)	37	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorodecanoic acid (PFDA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorobutanesulfonic acid (PFBS)	4.8	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluoropentanesulfonic acid (PFPeS)	3.4	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorohexanesulfonic acid (PFHxS)	10	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorooctanesulfonic acid (PFOS)	19	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
N-EtFOSAA (NEtFOSAA)	2.7	0.91	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.1	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.6	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: ASF-CP-01-080824 | Sampled: 8/8/2024 13:45

Sample ID: 24H1469-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:23	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	64.0		10-130		8/23/24 19:23
13C5-PFPeA	64.2		35-150		8/23/24 19:23
13C5-PFHxA	61.3		55-150		8/23/24 19:23
13C4-PFHpA	61.1		55-150		8/23/24 19:23
13C8-PFOA	**58.2**	*	60-140	S-29	8/23/24 19:23
13C9-PFNA	57.8		55-140		8/23/24 19:23
13C6-PFDA	57.9		50-140		8/23/24 19:23
13C7-PFUnA	53.7		30-140		8/23/24 19:23
13C2-PFDoA	46.6		10-150		8/23/24 19:23
13C2-PFTeDA	39.6		10-130		8/23/24 19:23
13C3-PFBS	67.2		55-150		8/23/24 19:23
13C3-PFHxS	60.0		55-150		8/23/24 19:23
13C8-PFOS	55.5		45-140		8/23/24 19:23
13C2-4:2FTS	89.5		60-200		8/23/24 19:23
13C2-6:2FTS	64.8		60-200		8/23/24 19:23
13C2-8:2FTS	50.4		50-200		8/23/24 19:23
13C8-PFOSA	50.1		30-130		8/23/24 19:23
D3-NMeFOSA	39.2		15-130		8/23/24 19:23
D5-NEtFOSA	37.0		10-130		8/23/24 19:23
D3-NMeFOSAA	49.9		45-200		8/23/24 19:23
D5-NEtFOSAA	45.0		10-200		8/23/24 19:23
D7-NMeFOSE	32.7		10-150		8/23/24 19:23
D9-NEtFOSE	27.1		10-150		8/23/24 19:23
13C3-HFPO-DA	67.2		25-160		8/23/24 19:23

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: ASF-CP-01-080824 | Sampled: 8/8/2024 13:45

Sample ID: 24H1469-04

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	8/12/24	8/12/24 10:22	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: TB-080824 | Sampled: 8/8/2024 14:30

Sample ID: 24H1469-05

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	8/9/24	8/13/24 9:20	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: TB-080824 | Sampled: 8/8/2024 14:30

Sample ID: 24H1469-05

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	8/9/24	8/13/24 9:20	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	8/9/24	8/13/24 9:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.2	70-130		8/13/24 9:20
Toluene-d8	97.3	70-130		8/13/24 9:20
4-Bromofluorobenzene	106	70-130		8/13/24 9:20

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: MIDGAC-CP-00-0808024 | Sampled: 8/8/2024 14:00

Sample ID: 24H1469-06

Sample Matrix: Ground 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	8/12/24	8/27/24 19:09	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	19.1	15-110		8/27/24 19:09

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: MIDGAC-CP-00-0808024 | Sampled: 8/8/2024 14:00

Sample ID: 24H1469-06

Sample Matrix: Ground 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)	39	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluoropentanoic acid (PFPeA)	22	1.9	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorohexanoic acid (PFHxA)	19	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluoroheptanoic acid (PFHpA)	6.4	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorooctanoic acid (PFOA)	14	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorononanoic acid (PFNA)	6.5	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorodecanoic acid (PFDA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorobutanesulfonic acid (PFBS)	2.4	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluoropentanesulfonic acid (PFPeS)	1.2	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.3	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorooctanesulfonic acid (PFOS)	1.8	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.93	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.3	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
11Cl-PF3OUdS (F53B Major)	ND	3.7	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.3	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: MIDGAC-CP-00-0808024 | Sampled: 8/8/2024 14:00

Sample ID: 24H1469-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L	1		Draft Method 1633	8/23/24	8/23/24 19:40	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	67.3	10-130		8/23/24 19:40
13C5-PFPeA	70.7	35-150		8/23/24 19:40
13C5-PFHxA	68.0	55-150		8/23/24 19:40
13C4-PFHpA	67.3	55-150		8/23/24 19:40
13C8-PFOA	62.8	60-140		8/23/24 19:40
13C9-PFNA	66.2	55-140		8/23/24 19:40
13C6-PFDA	63.2	50-140		8/23/24 19:40
13C7-PFUnA	59.8	30-140		8/23/24 19:40
13C2-PFDoA	53.2	10-150		8/23/24 19:40
13C2-PFTeDA	51.1	10-130		8/23/24 19:40
13C3-PFBS	72.9	55-150		8/23/24 19:40
13C3-PFHxS	67.7	55-150		8/23/24 19:40
13C8-PFOS	66.7	45-140		8/23/24 19:40
13C2-4:2FTS	68.4	60-200		8/23/24 19:40
13C2-6:2FTS	62.1	60-200		8/23/24 19:40
13C2-8:2FTS	53.7	50-200		8/23/24 19:40
13C8-PFOSA	61.0	30-130		8/23/24 19:40
D3-NMeFOSA	51.2	15-130		8/23/24 19:40
D5-NEtFOSA	51.0	10-130		8/23/24 19:40
D3-NMeFOSAA	62.8	45-200		8/23/24 19:40
D5-NEtFOSAA	58.6	10-200		8/23/24 19:40
D7-NMeFOSE	48.8	10-150		8/23/24 19:40
D9-NEtFOSE	44.9	10-150		8/23/24 19:40
13C3-HFPO-DA	75.1	25-160		8/23/24 19:40

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Project Location: Old Bethpage, NY Sample Description: Work Order: 24H1469

Date Received: 8/9/2024

Field Sample #: MIDGAC-CP-00-0808024 Sampled: 8/8/2024 14:00

Sample ID: 24H1469-06

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	8/12/24	8/12/24 10:22	LL

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Sample Extraction Data

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24H1469-01 [PD-CP-00-080824]	B382586	50.0	08/12/24
24H1469-02 [PD-CP-01-080824]	B382586	50.0	08/12/24
24H1469-03 [ASF-CP-00-080824]	B382586	50.0	08/12/24
24H1469-04 [ASF-CP-01-080824]	B382586	50.0	08/12/24
24H1469-06 [MIDGAC-CP-00-0808024]	B382586	50.0	08/12/24

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 8/12/2024 per NO PREP in Batch B382586

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24H1469-01 [PD-CP-00-080824]	B383619	545	5.00	08/23/24
24H1469-02 [PD-CP-01-080824]	B383619	540	5.00	08/23/24
24H1469-03 [ASF-CP-00-080824]	B383619	551	5.00	08/23/24
24H1469-04 [ASF-CP-01-080824]	B383619	551	5.00	08/23/24
24H1469-06 [MIDGAC-CP-00-0808024]	B383619	540	5.00	08/23/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24H1469-01 [PD-CP-00-080824]	B382700	5	5.00	08/09/24
24H1469-02 [PD-CP-01-080824]	B382700	5	5.00	08/09/24
24H1469-05 [TB-080824]	B382700	5	5.00	08/09/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24H1469-01 [PD-CP-00-080824]	B382612	1050	1.00	08/12/24
24H1469-02 [PD-CP-01-080824]	B382612	1050	1.00	08/12/24
24H1469-03 [ASF-CP-00-080824]	B382612	1060	1.00	08/12/24
24H1469-04 [ASF-CP-01-080824]	B382612	1060	1.00	08/12/24
24H1469-06 [MIDGAC-CP-00-0808024]	B382612	1050	1.00	08/12/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24H1469-01 [PD-CP-00-080824]	B382618	110	1.00	08/12/24
24H1469-02 [PD-CP-01-080824]	B382618	110	1.00	08/12/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24H1469-01RE1 [PD-CP-00-080824]	B384344	1040	1.00	08/28/24
24H1469-02RE1 [PD-CP-01-080824]	B384344	1040	1.00	08/28/24
24H1469-03RE1 [ASF-CP-00-080824]	B384344	1050	1.00	08/28/24

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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 B382700 - SW-846 5030B										
Blank (B382700-BLK1)				Prepared & Analyzed: 08/13/24						
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							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							

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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 B382700 - SW-846 5030B										
Blank (B382700-BLK1)				Prepared & Analyzed: 08/13/24						
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.7*		µg/L	25.0		94.7	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.0		105	70-130			
LCS (B382700-BS1)				Prepared & Analyzed: 08/13/24						
Acetone	97.3	50	µg/L	100		97.3	70-160			†
Benzene	9.45	1.0	µg/L	10.0		94.5	70-130			
Bromochloromethane	11.4	1.0	µg/L	10.0		114	70-130			
Bromodichloromethane	11.5	0.50	µg/L	10.0		115	70-130			
Bromoform	13.0	1.0	µg/L	10.0		130	70-130			
Bromomethane	8.83	2.0	µg/L	10.0		88.3	40-160			†
2-Butanone (MEK)	98.0	20	µg/L	100		98.0	40-160			†
n-Butylbenzene	9.59	1.0	µg/L	10.0		95.9	70-130			
sec-Butylbenzene	9.42	1.0	µg/L	10.0		94.2	70-130			
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
Carbon Disulfide	118	5.0	µg/L	100		118	70-130			
Carbon Tetrachloride	11.5	5.0	µg/L	10.0		115	70-130			
Chlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
Chlorodibromomethane	12.1	0.50	µg/L	10.0		121	70-130			
Chloroethane	9.33	2.0	µg/L	10.0		93.3	70-130			
Chloroform	10.4	2.0	µg/L	10.0		104	70-130			
Chloromethane	11.4	2.0	µg/L	10.0		114	40-160			†
Cyclohexane	9.57	5.0	µg/L	10.0		95.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.20	5.0	µg/L	10.0		92.0	70-130			
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130			
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
Dichlorodifluoromethane (Freon 12)	10.7	2.0	µg/L	10.0		107	40-160			†
1,1-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130			
1,2-Dichloroethane	9.93	1.0	µg/L	10.0		99.3	70-130			
1,1-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
cis-1,2-Dichloroethylene	9.81	1.0	µg/L	10.0		98.1	70-130			
trans-1,2-Dichloroethylene	9.62	1.0	µg/L	10.0		96.2	70-130			
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130			
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130			
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
2-Hexanone (MBK)	108	10	µg/L	100		108	70-160			†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130			
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130			
Methyl Acetate	10.2	1.0	µg/L	10.0		102	70-130			
Methyl tert-Butyl Ether (MTBE)	9.47	1.0	µg/L	10.0		94.7	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 B382700 - SW-846 5030B										
LCS (B382700-BS1)				Prepared & Analyzed: 08/13/24						
Methyl Cyclohexane	9.53	1.0	µg/L	10.0		95.3	70-130			
Methylene Chloride	11.4	5.0	µg/L	10.0		114	70-130			
4-Methyl-2-pentanone (MIBK)	114	10	µg/L	100		114	70-160			†
Naphthalene	9.55	2.0	µg/L	10.0		95.5	40-130			†
n-Propylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
Styrene	10.9	1.0	µg/L	10.0		109	70-130			
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130			
Tetrachloroethylene	11.7	1.0	µg/L	10.0		117	70-130			
Toluene	10.3	1.0	µg/L	10.0		103	70-130			
1,2,3-Trichlorobenzene	10.6	5.0	µg/L	10.0		106	70-130			
1,2,4-Trichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130			
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Trichlorofluoromethane (Freon 11)	11.5	2.0	µg/L	10.0		115	70-130			
1,2,3-Trichloropropane	10.7	2.0	µg/L	10.0		107	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	1.0	µg/L	10.0		103	70-130			
1,2,4-Trimethylbenzene	9.87	1.0	µg/L	10.0		98.7	70-130			
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Vinyl Chloride	9.79	2.0	µg/L	10.0		97.9	40-160			†
m+p Xylene	21.8	2.0	µg/L	20.0		109	70-130			
o-Xylene	11.0	1.0	µg/L	10.0		110	70-130			
Xylenes (total)	32.8	1.0	µg/L	30.0		109	0-200			
Surrogate: 1,2-Dichloroethane-d4	*24.0*		µg/L	25.0		95.9	70-130			
Surrogate: Toluene-d8	*24.3*		µg/L	25.0		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	*27.2*		µg/L	25.0		109	70-130			
LCS Dup (B382700-BSD1)				Prepared & Analyzed: 08/13/24						
Acetone	96.4	50	µg/L	100		96.4	70-160	0.857	25	†
Benzene	9.62	1.0	µg/L	10.0		96.2	70-130	1.78	25	
Bromochloromethane	11.3	1.0	µg/L	10.0		113	70-130	1.32	25	
Bromodichloromethane	11.9	0.50	µg/L	10.0		119	70-130	3.25	25	
Bromoform	13.0	1.0	µg/L	10.0		130	70-130	0.0771	25	
Bromomethane	9.33	2.0	µg/L	10.0		93.3	40-160	5.51	25	†
2-Butanone (MEK)	98.1	20	µg/L	100		98.1	40-160	0.163	25	†
n-Butylbenzene	9.56	1.0	µg/L	10.0		95.6	70-130	0.313	25	
sec-Butylbenzene	9.56	1.0	µg/L	10.0		95.6	70-130	1.48	25	
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.486	25	
Carbon Disulfide	123	5.0	µg/L	100		123	70-130	4.40	25	
Carbon Tetrachloride	11.5	5.0	µg/L	10.0		115	70-130	0.174	25	
Chlorobenzene	11.3	1.0	µg/L	10.0		113	70-130	0.624	25	
Chlorodibromomethane	12.5	0.50	µg/L	10.0		125	70-130	3.01	25	
Chloroethane	9.71	2.0	µg/L	10.0		97.1	70-130	3.99	25	
Chloroform	10.7	2.0	µg/L	10.0		107	70-130	2.66	25	
Chloromethane	11.6	2.0	µg/L	10.0		116	40-160	1.57	25	†
Cyclohexane	9.56	5.0	µg/L	10.0		95.6	70-130	0.105	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.36	5.0	µg/L	10.0		93.6	70-130	1.72	25	
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130	0.347	25	
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	2.25	25	
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	0.0960	25	
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	1.06	25	
Dichlorodifluoromethane (Freon 12)	10.6	2.0	µg/L	10.0		106	40-160	0.939	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 B382700 - SW-846 5030B										
LCS Dup (B382700-BSD1)				Prepared & Analyzed: 08/13/24						
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130	1.78	25	
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	1.60	25	
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	2.36	25	
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	3.51	25	
trans-1,2-Dichloroethylene	9.80	1.0	µg/L	10.0		98.0	70-130	1.85	25	
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	70-130	1.68	25	
cis-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130	0.272	25	
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130	0.178	25	
Ethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	2.42	25	
2-Hexanone (MBK)	111	10	µg/L	100		111	70-160	2.27	25	†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130	0.464	25	
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130	0.0983	25	
Methyl Acetate	9.82	1.0	µg/L	10.0		98.2	70-130	3.30	25	
Methyl tert-Butyl Ether (MTBE)	9.44	1.0	µg/L	10.0		94.4	70-130	0.317	25	
Methyl Cyclohexane	9.70	1.0	µg/L	10.0		97.0	70-130	1.77	25	
Methylene Chloride	10.9	5.0	µg/L	10.0		109	70-130	3.95	25	
4-Methyl-2-pentanone (MIBK)	115	10	µg/L	100		115	70-160	0.899	25	†
Naphthalene	9.65	2.0	µg/L	10.0		96.5	40-130	1.04	25	†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130	0.842	25	
Styrene	10.9	1.0	µg/L	10.0		109	70-130	0.275	25	
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107	70-130	1.02	25	
Tetrachloroethylene	12.0	1.0	µg/L	10.0		120	70-130	2.70	25	
Toluene	10.6	1.0	µg/L	10.0		106	70-130	3.07	25	
1,2,3-Trichlorobenzene	10.7	5.0	µg/L	10.0		107	70-130	0.848	25	
1,2,4-Trichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	1.47	25	
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130	3.39	25	
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130	1.83	25	
Trichloroethylene	11.3	1.0	µg/L	10.0		113	70-130	2.69	25	
Trichlorofluoromethane (Freon 11)	11.4	2.0	µg/L	10.0		114	70-130	0.784	25	
1,2,3-Trichloropropane	10.5	2.0	µg/L	10.0		105	70-130	1.61	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	1.0	µg/L	10.0		103	70-130	0.291	25	
1,2,4-Trimethylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130	0.814	25	
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130	0.00	25	
Vinyl Chloride	10.2	2.0	µg/L	10.0		102	40-160	3.71	25	†
m+p Xylene	22.2	2.0	µg/L	20.0		111	70-130	1.55	25	
o-Xylene	11.2	1.0	µg/L	10.0		112	70-130	1.62	25	
Xylenes (total)	33.4	1.0	µg/L	30.0		111	0-200	1.57		
Surrogate: 1,2-Dichloroethane-d4	*24.0*		µg/L	25.0		96.2	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	*26.7*		µg/L	25.0		107	70-130			
Matrix Spike (B382700-MS1)		**Source: 24H1469-01**		Prepared & Analyzed: 08/13/24						
Acetone	94.2	50	µg/L	100	ND	94.2	70-130			
Benzene	9.19	1.0	µg/L	10.0	ND	91.9	70-130			
Bromochloromethane	10.7	1.0	µg/L	10.0	ND	107	70-130			
Bromodichloromethane	11.1	0.50	µg/L	10.0	ND	111	70-130			
Bromoform	12.7	1.0	µg/L	10.0	ND	127	70-130			
Bromomethane	8.84	2.0	µg/L	10.0	ND	88.4	70-130			
2-Butanone (MEK)	102	20	µg/L	100	ND	102	70-130			
n-Butylbenzene	8.71	1.0	µg/L	10.0	ND	87.1	70-130			
sec-Butylbenzene	8.90	1.0	µg/L	10.0	ND	89.0	70-130			
tert-Butylbenzene	9.73	1.0	µg/L	10.0	ND	97.3	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 B382700 - SW-846 5030B										
Matrix Spike (B382700-MS1)	**Source: 24H1469-01**			Prepared & Analyzed: 08/13/24						
Carbon Disulfide	109	5.0	µg/L	100	ND	109	70-130			
Carbon Tetrachloride	11.1	5.0	µg/L	10.0	ND	111	70-130			
Chlorobenzene	10.6	1.0	µg/L	10.0	ND	106	70-130			
Chlorodibromomethane	11.6	0.50	µg/L	10.0	ND	116	70-130			
Chloroethane	9.80	2.0	µg/L	10.0	ND	98.0	70-130			
Chloroform	10.1	2.0	µg/L	10.0	ND	101	70-130			
Chloromethane	10.9	2.0	µg/L	10.0	ND	109	70-130			
Cyclohexane	9.30	5.0	µg/L	10.0	ND	93.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.62	5.0	µg/L	10.0	ND	96.2	70-130			
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0	ND	109	70-130			
1,2-Dichlorobenzene	9.82	1.0	µg/L	10.0	ND	98.2	70-130			
1,3-Dichlorobenzene	9.69	1.0	µg/L	10.0	ND	96.9	70-130			
1,4-Dichlorobenzene	9.65	1.0	µg/L	10.0	ND	96.5	70-130			
Dichlorodifluoromethane (Freon 12)	10.3	2.0	µg/L	10.0	ND	103	70-130			
1,1-Dichloroethane	9.82	1.0	µg/L	10.0	ND	98.2	70-130			
1,2-Dichloroethane	9.65	1.0	µg/L	10.0	ND	96.5	70-130			
1,1-Dichloroethylene	9.95	1.0	µg/L	10.0	ND	99.5	70-130			
cis-1,2-Dichloroethylene	9.46	1.0	µg/L	10.0	ND	94.6	70-130			
trans-1,2-Dichloroethylene	9.38	1.0	µg/L	10.0	ND	93.8	70-130			
1,2-Dichloropropane	10.3	1.0	µg/L	10.0	ND	103	70-130			
cis-1,3-Dichloropropene	10.0	0.50	µg/L	10.0	ND	100	70-130			
trans-1,3-Dichloropropene	9.96	0.50	µg/L	10.0	ND	99.6	70-130			
Ethylbenzene	10.3	1.0	µg/L	10.0	ND	103	70-130			
2-Hexanone (MBK)	115	10	µg/L	100	ND	115	70-130			
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0	ND	103	70-130			
p-Isopropyltoluene (p-Cymene)	9.46	1.0	µg/L	10.0	ND	94.6	70-130			
Methyl Acetate	9.63	1.0	µg/L	10.0	ND	96.3	70-130			
Methyl tert-Butyl Ether (MTBE)	9.04	1.0	µg/L	10.0	ND	90.4	70-130			
Methyl Cyclohexane	9.41	1.0	µg/L	10.0	ND	94.1	70-130			
Methylene Chloride	10.7	5.0	µg/L	10.0	ND	107	70-130			
4-Methyl-2-pentanone (MIBK)	117	10	µg/L	100	ND	117	70-130			
Naphthalene	9.03	2.0	µg/L	10.0	ND	90.3	70-130			
n-Propylbenzene	10.1	1.0	µg/L	10.0	ND	101	70-130			
Styrene	10.0	1.0	µg/L	10.0	ND	100	70-130			
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0	ND	107	70-130			
Tetrachloroethylene	11.4	1.0	µg/L	10.0	ND	114	70-130			
Toluene	10.0	1.0	µg/L	10.0	ND	100	70-130			
1,2,3-Trichlorobenzene	9.76	5.0	µg/L	10.0	ND	97.6	70-130			
1,2,4-Trichlorobenzene	9.36	1.0	µg/L	10.0	ND	93.6	70-130			
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0	ND	104	70-130			
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0	ND	104	70-130			
Trichloroethylene	10.8	1.0	µg/L	10.0	ND	108	70-130			
Trichlorofluoromethane (Freon 11)	11.1	2.0	µg/L	10.0	ND	111	70-130			
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.0	ND	104	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	µg/L	10.0	ND	101	70-130			
1,2,4-Trimethylbenzene	9.19	1.0	µg/L	10.0	ND	91.9	70-130			
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.0	ND	104	70-130			
Vinyl Chloride	9.47	2.0	µg/L	10.0	ND	94.7	70-130			
m+p Xylene	21.1	2.0	µg/L	20.0	ND	106	70-130			
o-Xylene	10.6	1.0	µg/L	10.0	ND	106	70-130			
Xylenes (total)	31.7	1.0	µg/L	30.0	ND	106	0-200			

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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 B382700 - SW-846 5030B										
Matrix Spike (B382700-MS1)	**Source: 24H1469-01**			Prepared & Analyzed: 08/13/24						
Surrogate: 1,2-Dichloroethane-d4	*23.8*		µg/L	25.0		95.1	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	*26.9*		µg/L	25.0		108	70-130			
Matrix Spike Dup (B382700-MSD1)	**Source: 24H1469-01**			Prepared & Analyzed: 08/13/24						
Acetone	92.9	50	µg/L	100	ND	92.9	70-130	1.37	30	
Benzene	9.10	1.0	µg/L	10.0	ND	91.0	70-130	0.984	30	
Bromochloromethane	10.5	1.0	µg/L	10.0	ND	105	70-130	2.45	30	
Bromodichloromethane	11.0	0.50	µg/L	10.0	ND	110	70-130	0.904	30	
Bromoform	12.2	1.0	µg/L	10.0	ND	122	70-130	3.29	30	
Bromomethane	9.47	2.0	µg/L	10.0	ND	94.7	70-130	6.88	30	
2-Butanone (MEK)	97.6	20	µg/L	100	ND	97.6	70-130	4.31	30	
n-Butylbenzene	8.72	1.0	µg/L	10.0	ND	87.2	70-130	0.115	30	
sec-Butylbenzene	8.70	1.0	µg/L	10.0	ND	87.0	70-130	2.27	30	
tert-Butylbenzene	9.21	1.0	µg/L	10.0	ND	92.1	70-130	5.49	30	
Carbon Disulfide	117	5.0	µg/L	100	ND	117	70-130	6.88	30	
Carbon Tetrachloride	11.1	5.0	µg/L	10.0	ND	111	70-130	0.0899	30	
Chlorobenzene	10.6	1.0	µg/L	10.0	ND	106	70-130	0.283	30	
Chlorodibromomethane	11.2	0.50	µg/L	10.0	ND	112	70-130	3.85	30	
Chloroethane	9.92	2.0	µg/L	10.0	ND	99.2	70-130	1.22	30	
Chloroform	10.1	2.0	µg/L	10.0	ND	101	70-130	0.495	30	
Chloromethane	11.1	2.0	µg/L	10.0	ND	111	70-130	1.82	30	
Cyclohexane	9.58	5.0	µg/L	10.0	ND	95.8	70-130	2.97	30	
1,2-Dibromo-3-chloropropane (DBCP)	8.64	5.0	µg/L	10.0	ND	86.4	70-130	10.7	30	
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0	ND	107	70-130	1.94	30	
1,2-Dichlorobenzene	9.17	1.0	µg/L	10.0	ND	91.7	70-130	6.85	30	
1,3-Dichlorobenzene	9.12	1.0	µg/L	10.0	ND	91.2	70-130	6.06	30	
1,4-Dichlorobenzene	9.37	1.0	µg/L	10.0	ND	93.7	70-130	2.94	30	
Dichlorodifluoromethane (Freon 12)	10.4	2.0	µg/L	10.0	ND	104	70-130	0.386	30	
1,1-Dichloroethane	9.58	1.0	µg/L	10.0	ND	95.8	70-130	2.47	30	
1,2-Dichloroethane	9.40	1.0	µg/L	10.0	ND	94.0	70-130	2.62	30	
1,1-Dichloroethylene	10.5	1.0	µg/L	10.0	ND	105	70-130	5.09	30	
cis-1,2-Dichloroethylene	9.33	1.0	µg/L	10.0	ND	93.3	70-130	1.38	30	
trans-1,2-Dichloroethylene	9.27	1.0	µg/L	10.0	ND	92.7	70-130	1.18	30	
1,2-Dichloropropane	10.0	1.0	µg/L	10.0	ND	100	70-130	2.86	30	
cis-1,3-Dichloropropene	9.64	0.50	µg/L	10.0	ND	96.4	70-130	3.97	30	
trans-1,3-Dichloropropene	9.83	0.50	µg/L	10.0	ND	98.3	70-130	1.31	30	
Ethylbenzene	10.3	1.0	µg/L	10.0	ND	103	70-130	0.00	30	
2-Hexanone (MBK)	107	10	µg/L	100	ND	107	70-130	6.67	30	
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.0	ND	105	70-130	1.64	30	
p-Isopropyltoluene (p-Cymene)	9.26	1.0	µg/L	10.0	ND	92.6	70-130	2.14	30	
Methyl Acetate	9.36	1.0	µg/L	10.0	ND	93.6	70-130	2.84	30	
Methyl tert-Butyl Ether (MTBE)	8.91	1.0	µg/L	10.0	ND	89.1	70-130	1.45	30	
Methyl Cyclohexane	9.14	1.0	µg/L	10.0	ND	91.4	70-130	2.91	30	
Methylene Chloride	10.7	5.0	µg/L	10.0	ND	107	70-130	0.187	30	
4-Methyl-2-pentanone (MIBK)	111	10	µg/L	100	ND	111	70-130	5.65	30	
Naphthalene	8.56	2.0	µg/L	10.0	ND	85.6	70-130	5.34	30	
n-Propylbenzene	10.0	1.0	µg/L	10.0	ND	100	70-130	0.793	30	
Styrene	9.87	1.0	µg/L	10.0	ND	98.7	70-130	1.81	30	
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0	ND	105	70-130	1.98	30	
Tetrachloroethylene	11.4	1.0	µg/L	10.0	ND	114	70-130	0.00	30	
Toluene	9.99	1.0	µg/L	10.0	ND	99.9	70-130	0.300	30	

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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 B382700 - SW-846 5030B										
Matrix Spike Dup (B382700-MSD1)	**Source: 24H1469-01**			Prepared & Analyzed: 08/13/24						
1,2,3-Trichlorobenzene	9.33	5.0	µg/L	10.0	ND	93.3	70-130	4.50	30	
1,2,4-Trichlorobenzene	9.22	1.0	µg/L	10.0	ND	92.2	70-130	1.51	30	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0	ND	104	70-130	0.481	30	
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0	ND	102	70-130	2.33	30	
Trichloroethylene	10.6	1.0	µg/L	10.0	ND	106	70-130	1.69	30	
Trichlorofluoromethane (Freon 11)	11.2	2.0	µg/L	10.0	ND	112	70-130	0.716	30	
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0	ND	103	70-130	0.290	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	1.0	µg/L	10.0	ND	103	70-130	2.25	30	
1,2,4-Trimethylbenzene	8.72	1.0	µg/L	10.0	ND	87.2	70-130	5.25	30	
1,3,5-Trimethylbenzene	10.0	1.0	µg/L	10.0	ND	100	70-130	3.33	30	
Vinyl Chloride	9.78	2.0	µg/L	10.0	ND	97.8	70-130	3.22	30	
m+p Xylene	20.8	2.0	µg/L	20.0	ND	104	70-130	1.67	20	
o-Xylene	10.5	1.0	µg/L	10.0	ND	105	70-130	0.758	30	
Xylenes (total)	31.3	1.0	µg/L	30.0	ND	104	0-200	1.37		
Surrogate: 1,2-Dichloroethane-d4	*23.8*		µg/L	25.0		95.2	70-130			
Surrogate: Toluene-d8	*23.9*		µg/L	25.0		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	*27.2*		µg/L	25.0		109	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B382618 - SW-846 3510C										
Blank (B382618-BLK1)				Prepared: 08/12/24 Analyzed: 08/13/24						
2,3,4,6-Tetrachlorophenol	ND	20	µg/L							
Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							V-05
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-05, V-34
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
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							L-04
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							L-04
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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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 B382618 - SW-846 3510C										
Blank (B382618-BLK1)				Prepared: 08/12/24 Analyzed: 08/13/24						
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	*219*		µg/L	400		54.7	15-110			
Surrogate: Phenol-d6	*116*		µg/L	400		29.1	15-110			
Surrogate: Nitrobenzene-d5	*103*		µg/L	200		51.7	30-130			
Surrogate: 2-Fluorobiphenyl	*121*		µg/L	200		60.4	30-130			
Surrogate: 2,4,6-Tribromophenol	*307*		µg/L	400		76.7	15-110			
Surrogate: p-Terphenyl-d14	*170*		µg/L	200		84.8	30-130			
LCS (B382618-BS1)				Prepared: 08/12/24 Analyzed: 08/13/24						
2,3,4,6-Tetrachlorophenol	77.4	20	µg/L	100		77.4	40-140			R-05
Atrazine	88.0	20	µg/L	100		88.0	40-140			
Benzaldehyde	69.0	10	µg/L	100		69.0	40-140			V-05
Biphenyl	56.8	20	µg/L	100		56.8	40-140			
Caprolactam	19.5	10	µg/L	100		**19.5**	* 40-140			L-04
Acenaphthene	67.3	5.0	µg/L	100		67.3	40-140			
Acenaphthylene	64.7	5.0	µg/L	100		64.7	40-140			
Acetophenone	59.9	10	µg/L	100		59.9	40-140			
Aniline	60.3	20	µg/L	100		60.3	40-140			V-05, V-34
Anthracene	71.1	5.0	µg/L	100		71.1	40-140			
Benzo(a)anthracene	73.1	5.0	µg/L	100		73.1	40-140			
Benzo(a)pyrene	73.2	5.0	µg/L	100		73.2	40-140			
Benzo(b)fluoranthene	74.8	5.0	µg/L	100		74.8	40-140			
Benzo(g,h,i)perylene	78.7	5.0	µg/L	100		78.7	40-140			
Benzo(k)fluoranthene	82.0	5.0	µg/L	100		82.0	40-140			
Bis(2-chloroethoxy)methane	96.1	10	µg/L	100		96.1	40-140			
Bis(2-chloroethyl)ether	77.1	10	µg/L	100		77.1	40-140			
Bis(2-chloroisopropyl)ether	83.5	10	µg/L	100		83.5	40-140			
Bis(2-Ethylhexyl)phthalate	74.8	10	µg/L	100		74.8	40-140			
4-Bromophenylphenylether	72.5	10	µg/L	100		72.5	40-140			
Butylbenzylphthalate	90.8	10	µg/L	100		90.8	40-140			
Carbazole	72.6	10	µg/L	100		72.6	40-140			
4-Chloroaniline	75.0	10	µg/L	100		75.0	40-140			R-05
4-Chloro-3-methylphenol	68.6	10	µg/L	100		68.6	30-130			
2-Chloronaphthalene	45.2	10	µg/L	100		45.2	40-140			
2-Chlorophenol	70.4	10	µg/L	100		70.4	30-130			R-05

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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 B382618 - SW-846 3510C												
LCS (B382618-BS1)				Prepared: 08/12/24 Analyzed: 08/13/24								
4-Chlorophenylphenylether	74.4	10	µg/L	100		74.4		40-140				
Chrysene	71.1	5.0	µg/L	100		71.1		40-140				
Dibenz(a,h)anthracene	72.7	5.0	µg/L	100		72.7		40-140				
Dibenzofuran	75.3	5.0	µg/L	100		75.3		40-140				
Di-n-butylphthalate	77.1	10	µg/L	100		77.1		40-140				
3,3-Dichlorobenzidine	82.6	10	µg/L	100		82.6		40-140				
2,4-Dichlorophenol	73.0	10	µg/L	100		73.0		30-130				
Diethylphthalate	80.5	10	µg/L	100		80.5		40-140				
2,4-Dimethylphenol	74.5	10	µg/L	100		74.5		30-130				
Dimethylphthalate	69.9	10	µg/L	100		69.9		40-140				
4,6-Dinitro-2-methylphenol	65.7	20	µg/L	100		65.7		30-130				
2,4-Dinitrophenol	69.5	10	µg/L	100		69.5		30-130			V-04	
2,4-Dinitrotoluene	83.9	10	µg/L	100		83.9		40-140				
2,6-Dinitrotoluene	73.3	10	µg/L	100		73.3		40-140				
Di-n-octylphthalate	74.8	10	µg/L	100		74.8		40-140			V-04	
Fluoranthene	65.4	5.0	µg/L	100		65.4		40-140				
Fluorene	74.5	5.0	µg/L	100		74.5		40-140				
Hexachlorobenzene	73.5	10	µg/L	100		73.5		40-140				
Hexachlorobutadiene	32.7	10	µg/L	100		**32.7**	*	40-140			L-04	
Hexachlorocyclopentadiene	30.0	10	µg/L	100		30.0		30-140				†
Hexachloroethane	25.8	10	µg/L	100		**25.8**	*	40-140			L-04	
Indeno(1,2,3-cd)pyrene	73.0	5.0	µg/L	100		73.0		40-140				
Isophorone	91.8	10	µg/L	100		91.8		40-140				
1-Methylnaphthalene	59.6	5.0	µg/L	100		59.6		40-140				
2-Methylnaphthalene	59.9	5.0	µg/L	100		59.9		40-140				
2-Methylphenol	65.4	10	µg/L	100		65.4		30-130				
3/4-Methylphenol	52.7	10	µg/L	100		52.7		30-130				
Naphthalene	57.5	5.0	µg/L	100		57.5		40-140				
2-Nitroaniline	56.3	10	µg/L	100		56.3		40-140				
3-Nitroaniline	73.4	10	µg/L	100		73.4		40-140				
4-Nitroaniline	69.1	10	µg/L	100		69.1		40-140				
Nitrobenzene	81.4	10	µg/L	100		81.4		40-140				
2-Nitrophenol	88.8	10	µg/L	100		88.8		30-130				
4-Nitrophenol	40.6	10	µg/L	100		40.6		10-130				†
N-Nitrosodiphenylamine/Diphenylamine	76.1	10	µg/L	100		76.1		40-140				
N-Nitrosodi-n-propylamine	61.1	10	µg/L	100		61.1		40-140				
Pentachlorophenol	70.1	10	µg/L	100		70.1		30-130				
Phenanthrene	70.4	5.0	µg/L	100		70.4		40-140				
Phenol	36.9	10	µg/L	100		36.9		20-130			R-05	†
Pyrene	84.2	5.0	µg/L	100		84.2		40-140				
Pyridine	20.2	20	µg/L	100		20.2		10-140				†
1,2,4,5-Tetrachlorobenzene	50.0	10	µg/L	100		50.0		40-140				
2,4,5-Trichlorophenol	66.0	10	µg/L	100		66.0		30-130				
2,4,6-Trichlorophenol	65.0	10	µg/L	100		65.0		30-130				
Surrogate: 2-Fluorophenol	*250*		µg/L	400		62.5		15-110				
Surrogate: Phenol-d6	*161*		µg/L	400		40.3		15-110				
Surrogate: Nitrobenzene-d5	*185*		µg/L	200		92.5		30-130				
Surrogate: 2-Fluorobiphenyl	*149*		µg/L	200		74.6		30-130				
Surrogate: 2,4,6-Tribromophenol	*429*		µg/L	400		107		15-110				
Surrogate: p-Terphenyl-d14	*216*		µg/L	200		108		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 B382618 - SW-846 3510C													
LCS Dup (B382618-BSD1)				Prepared: 08/12/24 Analyzed: 08/13/24									
2,3,4,6-Tetrachlorophenol	60.6	20	µg/L	100		60.6		40-140	**24.3**	*	20	R-05	
Atrazine	79.3	20	µg/L	100		79.3		40-140	10.5		20		
Benzaldehyde	61.7	10	µg/L	100		61.7		40-140	11.1		20	V-05	
Biphenyl	57.8	20	µg/L	100		57.8		40-140	1.82		20		
Caprolactam	18.0	10	µg/L	100		**18.0**	*	40-140	7.94		20	L-04	
Acenaphthene	60.7	5.0	µg/L	100		60.7		40-140	10.3		20		
Acenaphthylene	64.6	5.0	µg/L	100		64.6		40-140	0.248		20		
Acetophenone	68.9	10	µg/L	100		68.9		40-140	13.9		20		
Aniline	48.6	20	µg/L	100		48.6		40-140	21.5		50	V-05, V-34	‡
Anthracene	68.2	5.0	µg/L	100		68.2		40-140	4.18		20		
Benzo(a)anthracene	70.3	5.0	µg/L	100		70.3		40-140	3.89		20		
Benzo(a)pyrene	69.3	5.0	µg/L	100		69.3		40-140	5.44		20		
Benzo(b)fluoranthene	70.2	5.0	µg/L	100		70.2		40-140	6.29		20		
Benzo(g,h,i)perylene	87.1	5.0	µg/L	100		87.1		40-140	10.1		20		
Benzo(k)fluoranthene	76.1	5.0	µg/L	100		76.1		40-140	7.58		20		
Bis(2-chloroethoxy)methane	97.0	10	µg/L	100		97.0		40-140	0.932		20		
Bis(2-chloroethyl)ether	70.6	10	µg/L	100		70.6		40-140	8.76		20		
Bis(2-chloroisopropyl)ether	75.3	10	µg/L	100		75.3		40-140	10.3		20		
Bis(2-Ethylhexyl)phthalate	72.8	10	µg/L	100		72.8		40-140	2.67		20		
4-Bromophenylphenylether	72.4	10	µg/L	100		72.4		40-140	0.0828		20		
Butylbenzylphthalate	76.7	10	µg/L	100		76.7		40-140	16.9		20		
Carbazole	70.2	10	µg/L	100		70.2		40-140	3.40		20		
4-Chloroaniline	55.1	10	µg/L	100		55.1		40-140	**30.6**	*	20	R-05	
4-Chloro-3-methylphenol	63.1	10	µg/L	100		63.1		30-130	8.40		20		
2-Chloronaphthalene	46.4	10	µg/L	100		46.4		40-140	2.69		20		
2-Chlorophenol	54.6	10	µg/L	100		54.6		30-130	**25.3**	*	20	R-05	
4-Chlorophenylphenylether	68.1	10	µg/L	100		68.1		40-140	8.95		20		
Chrysene	67.1	5.0	µg/L	100		67.1		40-140	5.73		20		
Dibenz(a,h)anthracene	86.7	5.0	µg/L	100		86.7		40-140	17.5		20		
Dibenzofuran	65.1	5.0	µg/L	100		65.1		40-140	14.5		20		
Di-n-butylphthalate	74.6	10	µg/L	100		74.6		40-140	3.22		20		
3,3-Dichlorobenzidine	82.1	10	µg/L	100		82.1		40-140	0.583		20		
2,4-Dichlorophenol	61.3	10	µg/L	100		61.3		30-130	17.4		20		
Diethylphthalate	72.7	10	µg/L	100		72.7		40-140	10.2		20		
2,4-Dimethylphenol	80.0	10	µg/L	100		80.0		30-130	7.12		20		
Dimethylphthalate	73.0	10	µg/L	100		73.0		40-140	4.24		50		‡
4,6-Dinitro-2-methylphenol	55.2	20	µg/L	100		55.2		30-130	17.4		50		‡
2,4-Dinitrophenol	46.0	10	µg/L	100		46.0		30-130	40.7		50	V-04	‡
2,4-Dinitrotoluene	71.8	10	µg/L	100		71.8		40-140	15.5		20		
2,6-Dinitrotoluene	75.8	10	µg/L	100		75.8		40-140	3.31		20		
Di-n-octylphthalate	68.3	10	µg/L	100		68.3		40-140	9.09		20	V-04	
Fluoranthene	70.0	5.0	µg/L	100		70.0		40-140	6.71		20		
Fluorene	66.8	5.0	µg/L	100		66.8		40-140	10.9		20		
Hexachlorobenzene	74.2	10	µg/L	100		74.2		40-140	0.989		20		
Hexachlorobutadiene	27.7	10	µg/L	100		**27.7**	*	40-140	16.5		20	L-04	
Hexachlorocyclopentadiene	30.0	10	µg/L	100		30.0		30-140	0.0666		50		† ‡
Hexachloroethane	24.3	10	µg/L	100		**24.3**	*	40-140	5.78		50	L-04	‡
Indeno(1,2,3-cd)pyrene	85.9	5.0	µg/L	100		85.9		40-140	16.3		50		‡
Isophorone	104	10	µg/L	100		104		40-140	12.2		20		
1-Methylnaphthalene	54.2	5.0	µg/L	100		54.2		40-140	9.62		20		
2-Methylnaphthalene	55.3	5.0	µg/L	100		55.3		40-140	7.88		20		
2-Methylphenol	59.4	10	µg/L	100		59.4		30-130	9.71		20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B382618 - SW-846 3510C												
LCS Dup (B382618-BSD1)				Prepared: 08/12/24 Analyzed: 08/13/24								
3/4-Methylphenol	57.7	10	µg/L	100		57.7	30-130	9.09		20		† ‡
Naphthalene	51.2	5.0	µg/L	100		51.2	40-140	11.6		20		
2-Nitroaniline	60.6	10	µg/L	100		60.6	40-140	7.30		20		
3-Nitroaniline	60.4	10	µg/L	100		60.4	40-140	19.4		20		
4-Nitroaniline	58.9	10	µg/L	100		58.9	40-140	15.9		20		
Nitrobenzene	89.6	10	µg/L	100		89.6	40-140	9.57		20		
2-Nitrophenol	79.3	10	µg/L	100		79.3	30-130	11.2		20		
4-Nitrophenol	30.0	10	µg/L	100		30.0	10-130	30.1		50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	71.8	10	µg/L	100		71.8	40-140	5.82		20		
N-Nitrosodi-n-propylamine	69.6	10	µg/L	100		69.6	40-140	13.0		20		
Pentachlorophenol	58.9	10	µg/L	100		58.9	30-130	17.3		50		‡
Phenanthrene	67.1	5.0	µg/L	100		67.1	40-140	4.86		20		
Phenol	29.7	10	µg/L	100		29.7	20-130	**21.6**	*	20	R-05	†
Pyrene	69.5	5.0	µg/L	100		69.5	40-140	19.1		20		
Pyridine	21.9	20	µg/L	100		21.9	10-140	7.94		50		† ‡
1,2,4,5-Tetrachlorobenzene	51.1	10	µg/L	100		51.1	40-140	2.20		20		
2,4,5-Trichlorophenol	62.0	10	µg/L	100		62.0	30-130	6.22		20		
2,4,6-Trichlorophenol	57.0	10	µg/L	100		57.0	30-130	13.0		50		‡
Surrogate: 2-Fluorophenol	*170*		µg/L	400		42.4	15-110					
Surrogate: Phenol-d6	*123*		µg/L	400		30.7	15-110					
Surrogate: Nitrobenzene-d5	*188*		µg/L	200		93.9	30-130					
Surrogate: 2-Fluorobiphenyl	*145*		µg/L	200		72.6	30-130					
Surrogate: 2,4,6-Tribromophenol	*327*		µg/L	400		81.8	15-110					
Surrogate: p-Terphenyl-d14	*172*		µg/L	200		86.0	30-130					

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B382612 - SW-846 3510C										
Blank (B382612-BLK1)				Prepared: 08/12/24 Analyzed: 08/16/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.17*		µg/L	10.0		21.7	15-110			
LCS (B382612-BS1)				Prepared: 08/12/24 Analyzed: 08/16/24						
1,4-Dioxane	7.81	0.20	µg/L	10.0		78.1	40-140			
Surrogate: 1,4-Dioxane-d8	*2.15*		µg/L	10.0		21.5	15-110			
LCS Dup (B382612-BSD1)				Prepared: 08/12/24 Analyzed: 08/16/24						
1,4-Dioxane	8.70	0.20	µg/L	10.0		87.0	40-140	10.7	30	
Surrogate: 1,4-Dioxane-d8	*1.28*		µg/L	10.0		**12.8** *	15-110			S-26
Batch B384344 - SW-846 3510C										
Blank (B384344-BLK1)				Prepared: 08/28/24 Analyzed: 08/30/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.41*		µg/L	10.0		24.1	15-110			
LCS (B384344-BS1)				Prepared: 08/28/24 Analyzed: 08/30/24						
1,4-Dioxane	8.37	0.20	µg/L	10.0		83.7	40-140			
Surrogate: 1,4-Dioxane-d8	*2.41*		µg/L	10.0		24.1	15-110			
LCS Dup (B384344-BSD1)				Prepared: 08/28/24 Analyzed: 08/30/24						
1,4-Dioxane	8.61	0.20	µg/L	10.0		86.1	40-140	2.76	30	
Surrogate: 1,4-Dioxane-d8	*2.64*		µg/L	10.0		26.4	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 B383619 - Draft Method 1633										
Blank (B383619-BLK1)				Prepared & Analyzed: 08/23/24						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.99	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.99	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.99	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.99	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.99	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.99	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.99	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.99	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.99	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.99	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.99	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.99	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.99	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.99	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.99	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.99	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.99	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.99	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.99	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.99	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.99	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.99	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.9	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	*69.3*		ng/L	98.5		70.4	10-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B383619 - Draft Method 1633										
Blank (B383619-BLK1)				Prepared & Analyzed: 08/23/24						
Surrogate: 13C5-PFPeA	*36.1*		ng/L	49.3		73.3	35-150			
Surrogate: 13C5-PFHxA	*17.1*		ng/L	24.6		69.3	55-150			
Surrogate: 13C4-PFHpA	*16.8*		ng/L	24.6		68.4	55-150			
Surrogate: 13C8-PFOA	*16.4*		ng/L	24.6		66.5	60-140			
Surrogate: 13C9-PFNA	*8.40*		ng/L	12.3		68.2	55-140			
Surrogate: 13C6-PFDA	*7.94*		ng/L	12.3		64.4	50-140			
Surrogate: 13C7-PFUnA	*7.58*		ng/L	12.3		61.5	30-140			
Surrogate: 13C2-PFDoA	*6.94*		ng/L	12.3		56.4	10-150			
Surrogate: 13C2-PFTeDA	*6.53*		ng/L	12.3		53.0	10-130			
Surrogate: 13C3-PFBS	*18.3*		ng/L	24.6		74.1	55-150			
Surrogate: 13C3-PFHxS	*16.8*		ng/L	24.6		68.1	55-150			
Surrogate: 13C8-PFOS	*16.0*		ng/L	24.6		65.0	45-140			
Surrogate: 13C2-4:2FTS	*30.2*		ng/L	49.3		61.3	60-200			
Surrogate: 13C2-6:2FTS	*31.0*		ng/L	49.3		62.9	60-200			
Surrogate: 13C2-8:2FTS	*30.1*		ng/L	49.3		61.1	50-200			
Surrogate: 13C8-PFOSA	*15.2*		ng/L	24.6		61.6	30-130			
Surrogate: D3-NMeFOSA	*12.5*		ng/L	24.6		50.6	15-130			
Surrogate: D5-NEtFOSA	*12.6*		ng/L	24.6		51.3	10-130			
Surrogate: D3-NMeFOSAA	*31.6*		ng/L	49.3		64.2	45-200			
Surrogate: D5-NEtFOSAA	*29.7*		ng/L	49.3		60.3	10-200			
Surrogate: D7-NMeFOSE	*128*		ng/L	246		52.2	10-150			
Surrogate: D9-NEtFOSE	*121*		ng/L	246		49.1	10-150			
Surrogate: 13C3-HFPO-DA	*77.1*		ng/L	98.5		78.2	25-160			
LCS (B383619-BS1)				Prepared & Analyzed: 08/23/24						
Perfluorobutanoic acid (PFBA)	94.7	4.0	ng/L	94.9		99.8	58-148			
Perfluoropentanoic acid (PFPeA)	48.3	2.0	ng/L	47.4		102	54-152			
Perfluorohexanoic acid (PFHxA)	23.1	0.99	ng/L	23.7		97.5	55-152			
Perfluoroheptanoic acid (PFHpA)	24.5	0.99	ng/L	23.7		103	54-154			
Perfluorooctanoic acid (PFOA)	24.3	0.99	ng/L	23.7		102	52-161			
Perfluorononanoic acid (PFNA)	24.1	0.99	ng/L	23.7		101	59-149			
Perfluorodecanoic acid (PFDA)	23.7	0.99	ng/L	23.7		99.7	52-147			
Perfluoroundecanoic acid (PFUnA)	23.3	0.99	ng/L	23.7		98.2	48-159			
Perfluorododecanoic acid (PFDoA)	24.5	0.99	ng/L	23.7		103	64-142			
Perfluorotridecanoic acid (PFTrDA)	24.3	0.99	ng/L	23.7		102	49-148			
Perfluorotetradecanoic acid (PFTeDA)	24.9	0.99	ng/L	23.7		105	47-161			
Perfluorobutanesulfonic acid (PFBS)	20.9	0.99	ng/L	21.1		99.4	62-144			
Perfluoropentanesulfonic acid (PFPeS)	23.4	0.99	ng/L	22.3		105	59-151			
Perfluorohexanesulfonic acid (PFHxS)	21.9	0.99	ng/L	21.7		101	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	22.7	0.99	ng/L	22.6		100	55-152			
Perfluorooctanesulfonic acid (PFOS)	21.8	0.99	ng/L	22.0		99.0	58-149			
Perfluorononanesulfonic acid (PFNS)	21.9	0.99	ng/L	22.8		96.0	52-148			
Perfluorodecanesulfonic acid (PFDS)	22.6	0.99	ng/L	22.9		98.9	51-147			
Perfluorododecanesulfonic acid (PFDoS)	22.3	0.99	ng/L	23.0		97.1	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.7	4.0	ng/L	89.0		99.8	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	93.5	4.0	ng/L	90.1		104	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.3	4.0	ng/L	91.3		104	63-152			
Perfluorooctanesulfonamide (PFOSA)	24.2	0.99	ng/L	23.7		102	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	25.4	0.99	ng/L	23.7		107	63-145			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B383619 - Draft Method 1633										
LCS (B383619-BS1)				Prepared & Analyzed: 08/23/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	23.5	0.99	ng/L	23.7		99.1	65-139			
N-MeFOSAA (NMeFOSAA)	23.1	0.99	ng/L	23.7		97.3	58-144			
N-EtFOSAA (NEtFOSAA)	25.4	0.99	ng/L	23.7		107	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	250	9.9	ng/L	237		106	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	243	9.9	ng/L	237		102	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	93.7	4.0	ng/L	94.9		98.7	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	81.6	4.0	ng/L	89.6		91.1	68-146			
9Cl-PF3ONS (F53B Minor)	82.2	4.0	ng/L	89.0		92.4	56-156			
11Cl-PF3OUdS (F53B Major)	79.5	4.0	ng/L	89.6		88.8	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	228	9.9	ng/L	237		96.3	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1170	49	ng/L	1190		98.6	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1090	49	ng/L	1190		92.0	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	48.9	2.0	ng/L	42.2		116	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	50.8	2.0	ng/L	47.4		107	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	51.0	2.0	ng/L	47.4		108	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	63.5	2.0	ng/L	47.4		134	48-161			
Surrogate: 13C4-PFBA	*69.3*		ng/L	98.8		70.1	10-130			
Surrogate: 13C5-PFPeA	*36.5*		ng/L	49.4		73.8	35-150			
Surrogate: 13C5-PFHxA	*17.2*		ng/L	24.7		69.7	55-150			
Surrogate: 13C4-PFHpA	*16.6*		ng/L	24.7		67.1	55-150			
Surrogate: 13C8-PFOA	*16.3*		ng/L	24.7		66.1	60-140			
Surrogate: 13C9-PFNA	*8.50*		ng/L	12.4		68.8	55-140			
Surrogate: 13C6-PFDA	*8.17*		ng/L	12.4		66.1	50-140			
Surrogate: 13C7-PFUnA	*8.11*		ng/L	12.4		65.6	30-140			
Surrogate: 13C2-PFDoA	*7.10*		ng/L	12.4		57.5	10-150			
Surrogate: 13C2-PFTeDA	*6.80*		ng/L	12.4		55.0	10-130			
Surrogate: 13C3-PFBS	*17.4*		ng/L	24.7		70.5	55-150			
Surrogate: 13C3-PFHxS	*16.4*		ng/L	24.7		66.5	55-150			
Surrogate: 13C8-PFOS	*16.5*		ng/L	24.7		67.0	45-140			
Surrogate: 13C2-4:2FTS	*31.9*		ng/L	49.4		64.5	60-200			
Surrogate: 13C2-6:2FTS	*32.1*		ng/L	49.4		64.9	60-200			
Surrogate: 13C2-8:2FTS	*32.1*		ng/L	49.4		64.9	50-200			
Surrogate: 13C8-PFOSA	*15.1*		ng/L	24.7		61.3	30-130			
Surrogate: D3-NMeFOSA	*11.9*		ng/L	24.7		48.2	15-130			
Surrogate: D5-NEtFOSA	*12.4*		ng/L	24.7		50.3	10-130			
Surrogate: D3-NMeFOSAA	*33.2*		ng/L	49.4		67.2	45-200			
Surrogate: D5-NEtFOSAA	*31.1*		ng/L	49.4		62.8	10-200			
Surrogate: D7-NMeFOSE	*132*		ng/L	247		53.4	10-150			
Surrogate: D9-NEtFOSE	*125*		ng/L	247		50.6	10-150			
Surrogate: 13C3-HFPO-DA	*79.3*		ng/L	98.8		80.2	25-160			
MRL Check (B383619-MRL1)				Prepared & Analyzed: 08/23/24						
Perfluorobutanoic acid (PFBA)	7.76	3.9	ng/L	7.85		98.8	44-157			
Perfluoropentanoic acid (PFPeA)	3.90	2.0	ng/L	3.93		99.3	57-148			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B383619 - Draft Method 1633										
MRL Check (B383619-MRL1)				Prepared & Analyzed: 08/23/24						
Perfluorohexanoic acid (PFHxA)	1.95	0.98	ng/L	1.96		99.2	62-149			
Perfluoroheptanoic acid (PFHpA)	1.88	0.98	ng/L	1.96		95.6	56-150			
Perfluorooctanoic acid (PFOA)	1.96	0.98	ng/L	1.96		99.7	57-161			
Perfluorononanoic acid (PFNA)	1.81	0.98	ng/L	1.96		92.4	53-157			
Perfluorodecanoic acid (PFDA)	2.09	0.98	ng/L	1.96		106	43-158			
Perfluoroundecanoic acid (PFUnA)	1.91	0.98	ng/L	1.96		97.1	50-155			
Perfluorododecanoic acid (PFDoA)	2.05	0.98	ng/L	1.96		105	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.78	0.98	ng/L	1.96		90.5	52-140			
Perfluorotetradecanoic acid (PFTeDA)	1.97	0.98	ng/L	1.96		100	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.65	0.98	ng/L	1.74		94.7	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.90	0.98	ng/L	1.85		103	58-144			
Perfluorohexanesulfonic acid (PFHxS)	2.03	0.98	ng/L	1.80		113	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.87	0.98	ng/L	1.87		100	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.74	0.98	ng/L	1.82		95.3	43-162			
Perfluorononanesulfonic acid (PFNS)	2.07	0.98	ng/L	1.89		110	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.95	0.98	ng/L	1.89		103	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.96	0.98	ng/L	1.90		103	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	6.87	3.9	ng/L	7.36		93.3	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.71	3.9	ng/L	7.46		103	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.52	3.9	ng/L	7.56		99.5	46-165			
Perfluorooctanesulfonamide (PFOSA)	1.97	0.98	ng/L	1.96		100	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.95	0.98	ng/L	1.96		99.1	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.95	0.98	ng/L	1.96		99.1	49-156			
N-MeFOSAA (NMeFOSAA)	1.56	0.98	ng/L	1.96		79.5	32-160			
N-EtFOSAA (NEtFOSAA)	2.09	0.98	ng/L	1.96		107	51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	19.6	9.8	ng/L	19.6		100	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	19.3	9.8	ng/L	19.6		98.3	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.13	3.9	ng/L	7.85		90.7	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.98	3.9	ng/L	7.41		80.7	61-148			
9Cl-PF3ONS (F53B Minor)	6.02	3.9	ng/L	7.36		81.7	44-167			
11Cl-PF3OUdS (F53B Major)	5.79	3.9	ng/L	7.41		78.1	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	16.7	9.8	ng/L	19.6		84.9	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	83.9	49	ng/L	98.2		85.5	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	80.4	49	ng/L	98.2		81.9	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.66	2.0	ng/L	3.49		105	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.99	2.0	ng/L	3.93		101	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.76	2.0	ng/L	3.93		95.8	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.21	2.0	ng/L	3.93		133	47-160			
Surrogate: 13C4-PFBA	*70.5*		ng/L	98.2		71.9	10-130			
Surrogate: 13C5-PFPeA	*36.7*		ng/L	49.1		74.7	35-150			
Surrogate: 13C5-PFHxA	*17.0*		ng/L	24.5		69.2	55-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B383619 - Draft Method 1633										
MRL Check (B383619-MRL1)				Prepared & Analyzed: 08/23/24						
Surrogate: 13C4-PFHpA	*17.1*		ng/L	24.5		69.5	55-150			
Surrogate: 13C8-PFOA	*16.7*		ng/L	24.5		68.0	60-140			
Surrogate: 13C9-PFNA	*8.46*		ng/L	12.3		68.9	55-140			
Surrogate: 13C6-PFDA	*7.90*		ng/L	12.3		64.4	50-140			
Surrogate: 13C7-PFUnA	*7.87*		ng/L	12.3		64.1	30-140			
Surrogate: 13C2-PFDoA	*7.35*		ng/L	12.3		59.9	10-150			
Surrogate: 13C2-PFTeDA	*7.01*		ng/L	12.3		57.2	10-130			
Surrogate: 13C3-PFBS	*18.2*		ng/L	24.5		74.2	55-150			
Surrogate: 13C3-PFHxS	*16.8*		ng/L	24.5		68.5	55-150			
Surrogate: 13C8-PFOS	*17.5*		ng/L	24.5		71.2	45-140			
Surrogate: 13C2-4:2FTS	*30.5*		ng/L	49.1		62.1	60-200			
Surrogate: 13C2-6:2FTS	*30.9*		ng/L	49.1		63.0	60-200			
Surrogate: 13C2-8:2FTS	*28.8*		ng/L	49.1		58.6	50-200			
Surrogate: 13C8-PFOSA	*15.5*		ng/L	24.5		63.3	30-130			
Surrogate: D3-NMeFOSA	*12.8*		ng/L	24.5		52.3	15-130			
Surrogate: D5-NEtFOSA	*13.1*		ng/L	24.5		53.4	10-130			
Surrogate: D3-NMeFOSAA	*32.7*		ng/L	49.1		66.5	45-200			
Surrogate: D5-NEtFOSAA	*31.0*		ng/L	49.1		63.2	10-200			
Surrogate: D7-NMeFOSE	*134*		ng/L	245		54.8	10-150			
Surrogate: D9-NEtFOSE	*128*		ng/L	245		52.2	10-150			
Surrogate: 13C3-HFPO-DA	*78.5*		ng/L	98.2		80.0	25-160			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B382586 - Draft Method 1633										
Blank (B382586-BLK1)				Prepared & Analyzed: 08/12/24						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B382586-BS1)				Prepared & Analyzed: 08/12/24						
Total Suspended Solids	187	5.0	mg/L	200		93.5	51.5-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-06	Sample was extracted past the recommended holding time.
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.
PF-17C	Extracted internal standard is outside of control limits. Analyte is a known difficult compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-10	Sample was re-extracted outside of holding time since surrogate standard recovery was outside of control limits. Data from analysis performed outside of holding time is also reported since surrogate recovery is acceptable.
S-26	Surrogate outside of control limits.
S-29	Extracted Internal Standard is outside of control limits.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
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
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

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

Chain of Custody / Analysis Report

RAMBOLL

Sampler(s): (Signature) Brian Dunn

24H1469

Laboratory Use Only

Project Number:

Job Number:

Laboratory ID:

Lab Sample ID:

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

Laboratory:
Pace Analytical Services
39 Spruce St , East
Longmeadow, MA 01028
Attn: Kyle Murray
Phone: 413-525-2332

Holding Time:

Package Requirement: Level 2 and Level 3

EDD Format: EQuIS 4-file

Analysis Required

Preservatives: (see key at bottom)

Sample Identification										Analysis Required																				
	Unique Field Sample ID (sys_sample_code)	Sample Location	Date	Time	Sample Type (See Key)	Sample Matrix (See Key)	Number of Containers	Grab [G] or Composite [C]	Field Filtered? (Y / N)	1 8260D: DER TCLVOCs	0 8270: DER TCL SVOMVTs	2 6010D TAL Metals +Mercury (7470A)		0 2570D: TDS	0 2540D: TSS	0 7196A: hexavalent chromium	3 351.2: TKN	8 9060A: TOC	0 300.0: Anions Cl,F,SO4,CN	4 9012B: Cyanide		0 1633: PFAS	0 TSS(PFAS 1633)	0 8270D SIM: 1,4-dioxane						
1	PD-CP-00-080824	PD	8/8/2024	1320	N	WG	10	G	N	X	X											X	X	X						
2	PD-CP-01-080824	PD	8/8/2024	1320	FD	WG	10	G	N	X	X											X	X	X						
	PD-CP-MS-080824	PD	8/8/2024	1315	MS	WG	3	G	N	X																				
	PD-CP-MSD-080824	PD	8/8/2024	1315	MSD	WG	3	G	N	X																				
3	ASF-CP-00-080824	N	8/8/2024	1345	N	WG	5	G	N													X	X	X						
4	ASF-CP-01-080824	FD	8/8/2024	1345	FD	WG	5	G	N													X	X	X						
5	TB-080824		8/8/2024	1430	TB	WQ	2		N	X																				
6	MIDGAC-CP-00-080824	GAC	8/8/2024	1430	N	WG	5	G	N													X	X	X						
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														

Special Instructions: *OU-5 July 2024 Monthly System Samples*

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

Relinquished by: Brian Dunn	Date: 8/8/24 1600	Courier Name: FedEx	Date: 0.5 W	Condition:
If: GES, Inc.	Time:	Tracking #: 8/8/24 16:28	Time:	
Relinquished by:	Date: 8/8/24	Courier Name: PACE	Date: 8.8.24	Custody Seals Intact? *(if so, indicate the #, date, and time of the seal)*
If:	Time: 19:00	Tracking #:	Time: 19:10	
Received By: NQ's	Date: 8.8.24	Received By:	Date: 8/8 2300	Cooler Temperature:
Of: PACE	Time: 21:15	Of: MSMA(AAL)	Time:	

Other comments or notes regarding condition of samples as received:

Matrix Type: N = Normal env. sample, FD = field duplicate, EB = Equipment Blank, TB = Trip Blank, MS = Lab Matrix Spike, Other (Specify): FRB = Field Reagent Blank

Matrix: SE = Sediment, SO = Soil, WG = Groundwater, WQ = Water Quality, WS = Surface Water, WW = Waste Water, WP = Potable Water, AA = Ambient Air, Other (Specify):

Preservative Code: 0 = none, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = Zn Acetate, 6 = MeOH, 7 = $NaHSO_4$, 8 = Na_3PO_4, 9 = BenzalkoniumCl, 10 = other

SM 22, 4.1, 4.7

MSMA(AAL) Chain PACE 8/9/24 0540

Chain PACE 8/9/24 0210
Rec'd: PACE 8/9/24 06:00
PACE 8/9/24 08:35

8/9/24 835
1 of 2 Coolers

Table of Contents

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

Log In Back-Sheet

Client Ramboll

Project Claremont

MCP/RCP Required no

Deliverable Package Requirement

Location NY

PWSID# (When Applicable) NA

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time SA 8/9/24 835

Back-Sheet By / Date / Time SA 8/10/24 1125

Temperature Method gun # 6

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 2.2, 4.1, 4.7

Rush Samples: Yes / No Notify

Short Hold: Yes / No Notify

Notes regarding Samples/COC outside of SOP:

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

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☑	☑ N/A
Trip Blanks	☑	☑ N/A
Lab to Filters	☒ N/A	☑
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.*

Qualtrax ID: 120836

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

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	Soils Jars	(Circle Amb/Clear)																				
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	Ambers	1 Liter	2	2	2	2		2														
HCL																						
Sulfuric																						
Sulfuric		250mL																				
Phosphoric																						
HCl																						
Unpreserved		100mL	2	2																		
Unpreserved	Plastics	1 Liter																				
Sulfuric																						
Unpreserved		500mL	2	2	2	2		2														
Sulfuric																						
Unpreserved		250mL																				
Trizma																						
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved	VOA Vials																					
HCl			4	3			2															
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact																						
No plastic	Other / Fill in		—	—	—	—		—														

ATTACHMENT 2
MID-MONTH GAC TREATMENT SYSTEM PERFORMANCE ANALYTICAL RESULTS – AUGUST 22, 2024

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

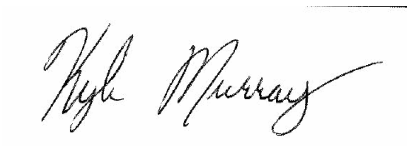
September 17, 2024

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

Project Location: Old Bethpage, NY
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 24H3387

Enclosed are results of analyses for samples as received by the laboratory on August 23, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

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

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

REPORT DATE: 9/17/2024

PURCHASE ORDER NUMBER: 151811

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24H3387

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

PROJECT LOCATION: Old Bethpage, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PREGAC-CP-00-082224	24H3387-01	Ground Water		Draft Method 1633	
MIDGAC-CP-00-082224	24H3387-02	Ground Water		Draft Method 1633	
POSTGAC-CP-00-082224	24H3387-03	Ground Water		Draft Method 1633	

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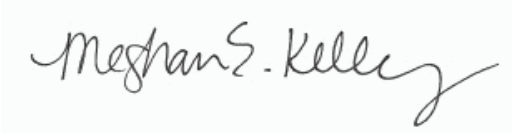
CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H3387

Date Received: 8/23/2024

Field Sample #: PREGAC-CP-00-082224 | Sampled: 8/22/2024 13:30

Sample ID: 24H3387-01

Sample Matrix: Ground 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	3.6	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluoropentanoic acid (PFPeA)	24	1.8	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorohexanoic acid (PFHxA)	38	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluoroheptanoic acid (PFHpA)	15	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorooctanoic acid (PFOA)	49	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorononanoic acid (PFNA)	12	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorodecanoic acid (PFDA)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorododecanoic acid (PFDoA)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorobutanesulfonic acid (PFBS)	6.3	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluoropentanesulfonic acid (PFPeS)	4.3	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorohexanesulfonic acid (PFHxS)	9.5	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorooctanesulfonic acid (PFOS)	17	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
N-MeFOSAA (NMeFOSAA)	ND	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
N-EtFOSAA (NEtFOSAA)	3.7	0.91	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.1	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
9Cl-PF3ONS (F53B Minor)	ND	3.6	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
11Cl-PF3OUdS (F53B Major)	ND	3.6	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB

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

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H3387

Date Received: 8/23/2024

Field Sample #: PREGAC-CP-00-082224 | Sampled: 8/22/2024 13:30

Sample ID: 24H3387-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:37	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	63.9	10-130		9/13/24 23:37
13C5-PFPeA	69.2	35-150		9/13/24 23:37
13C5-PFHxA	63.4	55-150		9/13/24 23:37
13C4-PFHpA	61.0	55-150		9/13/24 23:37
13C8-PFOA	60.6	60-140		9/13/24 23:37
13C9-PFNA	58.4	55-140		9/13/24 23:37
13C6-PFDA	58.8	50-140		9/13/24 23:37
13C7-PFUnA	53.9	30-140		9/13/24 23:37
13C2-PFDoA	50.4	10-150		9/13/24 23:37
13C2-PFTeDA	44.0	10-130		9/13/24 23:37
13C3-PFBS	68.1	55-150		9/13/24 23:37
13C3-PFHxS	63.7	55-150		9/13/24 23:37
13C8-PFOS	59.0	45-140		9/13/24 23:37
13C2-4:2FTS	127	60-200		9/13/24 23:37
13C2-6:2FTS	91.4	60-200		9/13/24 23:37
13C2-8:2FTS	80.8	50-200		9/13/24 23:37
13C8-PFOSA	50.8	30-130		9/13/24 23:37
D3-NMeFOSA	39.4	15-130		9/13/24 23:37
D5-NEtFOSA	37.5	10-130		9/13/24 23:37
D3-NMeFOSAA	57.2	45-200		9/13/24 23:37
D5-NEtFOSAA	59.2	10-200		9/13/24 23:37
D7-NMeFOSE	42.2	10-150		9/13/24 23:37
D9-NEtFOSE	39.5	10-150		9/13/24 23:37
13C3-HFPO-DA	59.4	25-160		9/13/24 23:37

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

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H3387

Date Received: 8/23/2024

Field Sample #: PREGAC-CP-00-082224 | Sampled: 8/22/2024 13:30

Sample ID: 24H3387-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	8/26/24	8/26/24 13:24	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H3387

Date Received: 8/23/2024

Field Sample #: MIDGAC-CP-00-082224 | Sampled: 8/22/2024 13:45

Sample ID: 24H3387-02

Sample Matrix: Ground 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)	43	4.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluoropentanoic acid (PFPeA)	23	2.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorohexanoic acid (PFHxA)	25	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluoroheptanoic acid (PFHpA)	7.6	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorooctanoic acid (PFOA)	20	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorononanoic acid (PFNA)	5.2	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorodecanoic acid (PFDA)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluoroundecanoic acid (PFUnA)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorododecanoic acid (PFDoA)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorobutanesulfonic acid (PFBS)	3.2	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluoropentanesulfonic acid (PFPeS)	2.1	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorohexanesulfonic acid (PFHxS)	3.7	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorooctanesulfonic acid (PFOS)	3.8	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorononanesulfonic acid (PFNS)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluorooctanesulfonamide (PFOSA)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
N-MeFOSAA (NMeFOSAA)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
N-EtFOSAA (NEtFOSAA)	ND	1.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	10	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
9Cl-PF3ONS (F53B Minor)	ND	4.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
11Cl-PF3OUdS (F53B Major)	ND	4.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	10	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	51	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	51	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H3387

Date Received: 8/23/2024

Field Sample #: MIDGAC-CP-00-082224 | Sampled: 8/22/2024 13:45

Sample ID: 24H3387-02

Sample Matrix: Ground 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	2.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L	1		Draft Method 1633	9/11/24	9/13/24 23:53	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	70.5	10-130		9/13/24 23:53
13C5-PFPeA	78.6	35-150		9/13/24 23:53
13C5-PFHxA	67.1	55-150		9/13/24 23:53
13C4-PFHpA	63.7	55-150		9/13/24 23:53
13C8-PFOA	67.5	60-140		9/13/24 23:53
13C9-PFNA	66.0	55-140		9/13/24 23:53
13C6-PFDA	67.2	50-140		9/13/24 23:53
13C7-PFUnA	66.9	30-140		9/13/24 23:53
13C2-PFDoA	60.5	10-150		9/13/24 23:53
13C2-PFTeDA	53.2	10-130		9/13/24 23:53
13C3-PFBS	72.3	55-150		9/13/24 23:53
13C3-PFHxS	68.0	55-150		9/13/24 23:53
13C8-PFOS	63.5	45-140		9/13/24 23:53
13C2-4:2FTS	93.1	60-200		9/13/24 23:53
13C2-6:2FTS	65.5	60-200		9/13/24 23:53
13C2-8:2FTS	57.3	50-200		9/13/24 23:53
13C8-PFOSA	54.5	30-130		9/13/24 23:53
D3-NMeFOSA	40.5	15-130		9/13/24 23:53
D5-NEtFOSA	38.3	10-130		9/13/24 23:53
D3-NMeFOSAA	59.3	45-200		9/13/24 23:53
D5-NEtFOSAA	61.6	10-200		9/13/24 23:53
D7-NMeFOSE	47.9	10-150		9/13/24 23:53
D9-NEtFOSE	46.8	10-150		9/13/24 23:53
13C3-HFPO-DA	63.8	25-160		9/13/24 23:53

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Project Location: Old Bethpage, NY Sample Description: Work Order: 24H3387

Date Received: 8/23/2024

Field Sample #: MIDGAC-CP-00-082224 Sampled: 8/22/2024 13:45

Sample ID: 24H3387-02

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	8/26/24	8/26/24 13:24	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H3387

Date Received: 8/23/2024

Field Sample #: POSTGAC-CP-00-082224 | Sampled: 8/22/2024 14:00

Sample ID: 24H3387-03

Sample Matrix: Ground 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	3.8	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluoropentanoic acid (PFPeA)	4.6	1.9	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorohexanoic acid (PFHxA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluoroheptanoic acid (PFHpA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorooctanoic acid (PFOA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorononanoic acid (PFNA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorodecanoic acid (PFDA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorododecanoic acid (PFDoA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorobutanesulfonic acid (PFBS)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluoropentanesulfonic acid (PFPeS)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorohexanesulfonic acid (PFHxS)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorooctanesulfonic acid (PFOS)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
N-MeFOSAA (NMeFOSAA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
N-EtFOSAA (NEtFOSAA)	ND	0.96	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.6	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.6	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
9Cl-PF3ONS (F53B Minor)	ND	3.8	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
11Cl-PF3OUdS (F53B Major)	ND	3.8	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.6	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	48	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24H3387

Date Received: 8/23/2024

Field Sample #: POSTGAC-CP-00-082224 | Sampled: 8/22/2024 14:00

Sample ID: 24H3387-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L	1		Draft Method 1633	9/11/24	9/14/24 0:09	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	92.7	10-130		9/14/24 0:09
13C5-PFPeA	106	35-150		9/14/24 0:09
13C5-PFHxA	91.9	55-150		9/14/24 0:09
13C4-PFHpA	85.6	55-150		9/14/24 0:09
13C8-PFOA	90.3	60-140		9/14/24 0:09
13C9-PFNA	84.4	55-140		9/14/24 0:09
13C6-PFDA	87.2	50-140		9/14/24 0:09
13C7-PFUnA	78.8	30-140		9/14/24 0:09
13C2-PFDoA	73.8	10-150		9/14/24 0:09
13C2-PFTeDA	66.8	10-130		9/14/24 0:09
13C3-PFBS	91.1	55-150		9/14/24 0:09
13C3-PFHxS	88.1	55-150		9/14/24 0:09
13C8-PFOS	86.3	45-140		9/14/24 0:09
13C2-4:2FTS	85.3	60-200		9/14/24 0:09
13C2-6:2FTS	85.5	60-200		9/14/24 0:09
13C2-8:2FTS	75.9	50-200		9/14/24 0:09
13C8-PFOSA	68.0	30-130		9/14/24 0:09
D3-NMeFOSA	52.7	15-130		9/14/24 0:09
D5-NEtFOSA	52.6	10-130		9/14/24 0:09
D3-NMeFOSAA	76.0	45-200		9/14/24 0:09
D5-NEtFOSAA	77.2	10-200		9/14/24 0:09
D7-NMeFOSE	59.2	10-150		9/14/24 0:09
D9-NEtFOSE	57.4	10-150		9/14/24 0:09
13C3-HFPO-DA	91.9	25-160		9/14/24 0:09

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Project Location: Old Bethpage, NY Sample Description: Work Order: 24H3387

Date Received: 8/23/2024

Field Sample #: POSTGAC-CP-00-082224 Sampled: 8/22/2024 14:00

Sample ID: 24H3387-03

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	8/26/24	8/26/24 13:24	LL

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Sample Extraction Data

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24H3387-01 [PREGAC-CP-00-082224]	B384017	50.0	08/26/24
24H3387-02 [MIDGAC-CP-00-082224]	B384017	50.0	08/26/24
24H3387-03 [POSTGAC-CP-00-082224]	B384017	50.0	08/26/24

Prep Method:Draft Method 1633 **Analytical Method:Draft Method 1633** **Leachates were extracted on 8/26/2024 per NO PREP in Batch B384017**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24H3387-01 [PREGAC-CP-00-082224]	B385409	549	5.00	09/11/24
24H3387-02 [MIDGAC-CP-00-082224]	B385409	494	5.00	09/11/24
24H3387-03 [POSTGAC-CP-00-082224]	B385409	522	5.00	09/11/24

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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 B385409 - Draft Method 1633										
Blank (B385409-BLK1)				Prepared: 09/11/24 Analyzed: 09/12/24						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.98	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.98	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.98	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.98	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.98	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.98	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.98	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.98	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.98	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.98	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.98	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.98	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.98	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.98	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.8	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	*81.0*		ng/L	98.2		82.5	10-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B385409 - Draft Method 1633										
Blank (B385409-BLK1)				Prepared: 09/11/24 Analyzed: 09/12/24						
Surrogate: 13C5-PFPeA	*39.5*		ng/L	49.1		80.5	35-150			
Surrogate: 13C5-PFHxA	*19.4*		ng/L	24.5		79.0	55-150			
Surrogate: 13C4-PFHpA	*17.8*		ng/L	24.5		72.7	55-150			
Surrogate: 13C8-PFOA	*19.2*		ng/L	24.5		78.3	60-140			
Surrogate: 13C9-PFNA	*9.78*		ng/L	12.3		79.7	55-140			
Surrogate: 13C6-PFDA	*9.46*		ng/L	12.3		77.0	50-140			
Surrogate: 13C7-PFUnA	*9.96*		ng/L	12.3		81.2	30-140			
Surrogate: 13C2-PFDoA	*9.06*		ng/L	12.3		73.8	10-150			
Surrogate: 13C2-PFTeDA	*8.36*		ng/L	12.3		68.1	10-130			
Surrogate: 13C3-PFBS	*20.9*		ng/L	24.5		85.1	55-150			
Surrogate: 13C3-PFHxS	*20.5*		ng/L	24.5		83.6	55-150			
Surrogate: 13C8-PFOS	*19.5*		ng/L	24.5		79.5	45-140			
Surrogate: 13C2-4:2FTS	*38.5*		ng/L	49.1		78.4	60-200			
Surrogate: 13C2-6:2FTS	*36.6*		ng/L	49.1		74.6	60-200			
Surrogate: 13C2-8:2FTS	*35.6*		ng/L	49.1		72.6	50-200			
Surrogate: 13C8-PFOSA	*16.7*		ng/L	24.5		67.8	30-130			
Surrogate: D3-NMeFOSA	*13.1*		ng/L	24.5		53.2	15-130			
Surrogate: D5-NEtFOSA	*13.6*		ng/L	24.5		55.5	10-130			
Surrogate: D3-NMeFOSAA	*35.0*		ng/L	49.1		71.2	45-200			
Surrogate: D5-NEtFOSAA	*35.7*		ng/L	49.1		72.8	10-200			
Surrogate: D7-NMeFOSE	*161*		ng/L	245		65.7	10-150			
Surrogate: D9-NEtFOSE	*159*		ng/L	245		64.9	10-150			
Surrogate: 13C3-HFPO-DA	*72.1*		ng/L	98.2		73.4	25-160			
LCS (B385409-BS1)				Prepared: 09/11/24 Analyzed: 09/12/24						
Perfluorobutanoic acid (PFBA)	106	3.9	ng/L	93.4		113	58-148			
Perfluoropentanoic acid (PFPeA)	55.4	1.9	ng/L	46.7		119	54-152			
Perfluorohexanoic acid (PFHxA)	26.5	0.97	ng/L	23.4		113	55-152			
Perfluoroheptanoic acid (PFHpA)	25.7	0.97	ng/L	23.4		110	54-154			
Perfluorooctanoic acid (PFOA)	26.3	0.97	ng/L	23.4		112	52-161			
Perfluorononanoic acid (PFNA)	26.6	0.97	ng/L	23.4		114	59-149			
Perfluorodecanoic acid (PFDA)	26.0	0.97	ng/L	23.4		112	52-147			
Perfluoroundecanoic acid (PFUnA)	26.3	0.97	ng/L	23.4		113	48-159			
Perfluorododecanoic acid (PFDoA)	26.5	0.97	ng/L	23.4		113	64-142			
Perfluorotridecanoic acid (PFTrDA)	25.0	0.97	ng/L	23.4		107	49-148			
Perfluorotetradecanoic acid (PFTeDA)	26.8	0.97	ng/L	23.4		115	47-161			
Perfluorobutanesulfonic acid (PFBS)	21.8	0.97	ng/L	20.7		105	62-144			
Perfluoropentanesulfonic acid (PFPeS)	24.6	0.97	ng/L	22.0		112	59-151			
Perfluorohexanesulfonic acid (PFHxS)	21.3	0.97	ng/L	21.4		99.6	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	23.9	0.97	ng/L	22.2		107	55-152			
Perfluorooctanesulfonic acid (PFOS)	23.4	0.97	ng/L	21.7		108	58-149			
Perfluorononanesulfonic acid (PFNS)	22.4	0.97	ng/L	22.5		99.8	52-148			
Perfluorodecanesulfonic acid (PFDS)	22.7	0.97	ng/L	22.5		101	51-147			
Perfluorododecanesulfonic acid (PFDoS)	22.0	0.97	ng/L	22.7		97.1	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103	3.9	ng/L	87.6		117	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	103	3.9	ng/L	88.8		116	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	105	3.9	ng/L	89.9		117	63-152			
Perfluorooctanesulfonamide (PFOSA)	25.4	0.97	ng/L	23.4		109	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	27.8	0.97	ng/L	23.4		119	63-145			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B385409 - Draft Method 1633										
LCS (B385409-BS1)				Prepared: 09/11/24 Analyzed: 09/12/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	28.4	0.97	ng/L	23.4		122	65-139			
N-MeFOSAA (NMeFOSAA)	28.0	0.97	ng/L	23.4		120	58-144			
N-EtFOSAA (NEtFOSAA)	22.3	0.97	ng/L	23.4		95.7	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	267	9.7	ng/L	234		114	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	261	9.7	ng/L	234		112	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	104	3.9	ng/L	93.4		112	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	106	3.9	ng/L	88.2		121	68-146			
9Cl-PF3ONS (F53B Minor)	98.4	3.9	ng/L	87.6		112	56-156			
11Cl-PF3OUdS (F53B Major)	92.5	3.9	ng/L	88.2		105	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	223	9.7	ng/L	234		95.5	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1150	49	ng/L	1170		98.9	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1030	49	ng/L	1170		88.2	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	49.4	1.9	ng/L	41.6		119	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	49.5	1.9	ng/L	46.7		106	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	51.0	1.9	ng/L	46.7		109	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	48.1	1.9	ng/L	46.7		103	48-161			
Surrogate: 13C4-PFBA	*70.5*		ng/L	97.3		72.4	10-130			
Surrogate: 13C5-PFPeA	*34.9*		ng/L	48.7		71.8	35-150			
Surrogate: 13C5-PFHxA	*17.2*		ng/L	24.3		70.7	55-150			
Surrogate: 13C4-PFHpA	*15.9*		ng/L	24.3		65.3	55-150			
Surrogate: 13C8-PFOA	*16.9*		ng/L	24.3		69.4	60-140			
Surrogate: 13C9-PFNA	*8.45*		ng/L	12.2		69.5	55-140			
Surrogate: 13C6-PFDA	*8.24*		ng/L	12.2		67.8	50-140			
Surrogate: 13C7-PFUnA	*8.26*		ng/L	12.2		67.9	30-140			
Surrogate: 13C2-PFDoA	*7.86*		ng/L	12.2		64.6	10-150			
Surrogate: 13C2-PFTeDA	*7.30*		ng/L	12.2		60.0	10-130			
Surrogate: 13C3-PFBS	*17.4*		ng/L	24.3		71.5	55-150			
Surrogate: 13C3-PFHxS	*17.0*		ng/L	24.3		70.0	55-150			
Surrogate: 13C8-PFOS	*16.4*		ng/L	24.3		67.4	45-140			
Surrogate: 13C2-4:2FTS	*34.3*		ng/L	48.7		70.4	60-200			
Surrogate: 13C2-6:2FTS	*33.8*		ng/L	48.7		69.5	60-200			
Surrogate: 13C2-8:2FTS	*32.7*		ng/L	48.7		67.3	50-200			
Surrogate: 13C8-PFOSA	*14.0*		ng/L	24.3		57.5	30-130			
Surrogate: D3-NMeFOSA	*11.0*		ng/L	24.3		45.2	15-130			
Surrogate: D5-NEtFOSA	*10.8*		ng/L	24.3		44.3	10-130			
Surrogate: D3-NMeFOSAA	*30.7*		ng/L	48.7		63.1	45-200			
Surrogate: D5-NEtFOSAA	*32.7*		ng/L	48.7		67.2	10-200			
Surrogate: D7-NMeFOSE	*136*		ng/L	243		55.7	10-150			
Surrogate: D9-NEtFOSE	*135*		ng/L	243		55.5	10-150			
Surrogate: 13C3-HFPO-DA	*62.9*		ng/L	97.3		64.6	25-160			
MRL Check (B385409-MRL1)				Prepared: 09/11/24 Analyzed: 09/12/24						
Perfluorobutanoic acid (PFBA)	7.11	4.0	ng/L	7.93		89.7	44-157			
Perfluoropentanoic acid (PFPeA)	3.56	2.0	ng/L	3.97		89.9	57-148			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B385409 - Draft Method 1633										
MRL Check (B385409-MRL1)				Prepared: 09/11/24 Analyzed: 09/12/24						
Perfluorohexanoic acid (PFHxA)	1.91	0.99	ng/L	1.98		96.5	62-149			
Perfluoroheptanoic acid (PFHpA)	1.65	0.99	ng/L	1.98		83.0	56-150			
Perfluorooctanoic acid (PFOA)	1.73	0.99	ng/L	1.98		87.3	57-161			
Perfluorononanoic acid (PFNA)	1.88	0.99	ng/L	1.98		94.9	53-157			
Perfluorodecanoic acid (PFDA)	1.86	0.99	ng/L	1.98		93.9	43-158			
Perfluoroundecanoic acid (PFUnA)	1.73	0.99	ng/L	1.98		87.4	50-155			
Perfluorododecanoic acid (PFDoA)	1.77	0.99	ng/L	1.98		89.5	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.66	0.99	ng/L	1.98		83.8	52-140			
Perfluorotetradecanoic acid (PFTeDA)	1.73	0.99	ng/L	1.98		87.1	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.56	0.99	ng/L	1.76		88.8	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.67	0.99	ng/L	1.86		89.4	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.58	0.99	ng/L	1.81		86.9	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.58	0.99	ng/L	1.89		83.9	51-150			
Perfluorooctanesulfonic acid (PFOS)	1.73	0.99	ng/L	1.84		94.0	43-162			
Perfluorononanesulfonic acid (PFNS)	1.63	0.99	ng/L	1.91		85.4	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.49	0.99	ng/L	1.91		78.1	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.45	0.99	ng/L	1.92		75.1	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.03	4.0	ng/L	7.43		94.6	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	6.83	4.0	ng/L	7.53		90.7	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.11	4.0	ng/L	7.63		93.1	46-165			
Perfluorooctanesulfonamide (PFOSA)	1.70	0.99	ng/L	1.98		85.6	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.14	0.99	ng/L	1.98		108	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.07	0.99	ng/L	1.98		104	49-156			
N-MeFOSAA (NMeFOSAA)	1.76	0.99	ng/L	1.98		88.8	32-160			
N-EtFOSAA (NEtFOSAA)	1.42	0.99	ng/L	1.98		71.9	51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	18.6	9.9	ng/L	19.8		93.9	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	17.6	9.9	ng/L	19.8		88.8	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.82	4.0	ng/L	7.93		98.7	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.34	4.0	ng/L	7.48		98.0	61-148			
9Cl-PF3ONS (F53B Minor)	6.99	4.0	ng/L	7.43		94.0	44-167			
11Cl-PF3OUdS (F53B Major)	6.37	4.0	ng/L	7.48		85.1	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	15.6	9.9	ng/L	19.8		78.5	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	80.2	50	ng/L	99.1		80.9	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	69.5	50	ng/L	99.1		70.2	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.54	2.0	ng/L	3.53		100	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.59	2.0	ng/L	3.97		90.6	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.70	2.0	ng/L	3.97		93.3	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.52	2.0	ng/L	3.97		88.7	47-160			
Surrogate: 13C4-PFBA	*73.2*		ng/L	99.1		73.9	10-130			
Surrogate: 13C5-PFPeA	*35.8*		ng/L	49.6		72.3	35-150			
Surrogate: 13C5-PFHxA	*17.6*		ng/L	24.8		71.2	55-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B385409 - Draft Method 1633										
MRL Check (B385409-MRL1)				Prepared: 09/11/24 Analyzed: 09/12/24						
Surrogate: 13C4-PFHpA	*16.1*		ng/L	24.8		65.0	55-150			
Surrogate: 13C8-PFOA	*17.6*		ng/L	24.8		70.9	60-140			
Surrogate: 13C9-PFNA	*8.58*		ng/L	12.4		69.2	55-140			
Surrogate: 13C6-PFDA	*8.30*		ng/L	12.4		67.0	50-140			
Surrogate: 13C7-PFUnA	*8.46*		ng/L	12.4		68.3	30-140			
Surrogate: 13C2-PFDoA	*8.19*		ng/L	12.4		66.1	10-150			
Surrogate: 13C2-PFTeDA	*7.39*		ng/L	12.4		59.6	10-130			
Surrogate: 13C3-PFBS	*17.7*		ng/L	24.8		71.3	55-150			
Surrogate: 13C3-PFHxS	*17.0*		ng/L	24.8		68.8	55-150			
Surrogate: 13C8-PFOS	*17.0*		ng/L	24.8		68.6	45-140			
Surrogate: 13C2-4:2FTS	*33.6*		ng/L	49.6		67.9	60-200			
Surrogate: 13C2-6:2FTS	*32.5*		ng/L	49.6		65.6	60-200			
Surrogate: 13C2-8:2FTS	*30.8*		ng/L	49.6		62.2	50-200			
Surrogate: 13C8-PFOSA	*14.8*		ng/L	24.8		59.6	30-130			
Surrogate: D3-NMeFOSA	*11.4*		ng/L	24.8		46.1	15-130			
Surrogate: D5-NEtFOSA	*11.1*		ng/L	24.8		44.8	10-130			
Surrogate: D3-NMeFOSAA	*31.4*		ng/L	49.6		63.3	45-200			
Surrogate: D5-NEtFOSAA	*33.8*		ng/L	49.6		68.2	10-200			
Surrogate: D7-NMeFOSE	*140*		ng/L	248		56.7	10-150			
Surrogate: D9-NEtFOSE	*138*		ng/L	248		55.5	10-150			
Surrogate: 13C3-HFPO-DA	*64.6*		ng/L	99.1		65.1	25-160			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B384017 - Draft Method 1633										
Blank (B384017-BLK1)				Prepared & Analyzed: 08/26/24						
Total Suspended Solids	ND	5.0	mg/L							
LCS (B384017-BS1)				Prepared & Analyzed: 08/26/24						
Total Suspended Solids	148	5.0	mg/L	200		74.0	51.5-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

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

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

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

RAMBOLL

Chain of Custody / Analysis Report

24113367 RM

Page 1 of 1

Sampler(s): (Signature) Brian J. Dunn

Contact:	Michael G. Grifasi
Address:	333 West Washington Street Syracuse, New York 13221-4873
Phone:	(315) 956-6100
E-mail:	michael.grifasi@ramboll.com
Project:	NYSDEC Claremont Poly Site 2024 Q3 Sampling NYSDEC Standby Contract
Location:	Old Bethpage, New York

Laboratory:
Pace Analytical Services
39 Spruce St., East
Longmeadow, MA 01028

Attn: Kyle Murray
Phone: 413-525-2332

Holding Time:

Package Requirement: Level 2 and Level 3

EDD Format: EQuIS 4-file

Laboratory Use Only
Project Number:
Job Number:
Laboratory ID:
Lab Sample ID:

	Sample Identification: Unique Field Sample ID (sys_sample_code)	Sample Location	Date	Time	Sample Type (See Key)	Sample Matrix (See Key)	Number of Containers	Grab [G] or Composite [C]	Field Filtered? (Y / N)	Analysis Required: TAL 23 Metals by 6010/7470	SiO2 by 200.7	PFAS by 1633	TSS (PFAS 1633)	1,4-Dioxane by 8270 SIM
	Preservatives: (see key at bottom)									2	2	0	0	0
1	PREGAC-CP-00-082224	GAC	8/22/2024	1334	N	WG	3	G	N			X	X	
2	MIDGAC-CP-00-082224	GAC	8/22/2024	1345	N	WG	3	G	N			X	X	
3	POSTGAC-CP-00-082224	GAC	8/22/2024	1400	N	WG	3	G	N			X	X	
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

Special Instructions:

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

Relinquished by: BRIAN J. DUNN GES	Date: 8/22/24	Courier Name: FedEx MSMA(ANL)	Date: 8/22/1740	Condition:
	Time: 1445	Tracking #:	Time	
Relinquished by: PCI	Date: 8/22	Courier Name:	Date:	Custody Seals Intact? (if so, indicate the #, date, and time of the seal)
	Time: 18:00	Tracking #:	Time:	
Courier Name: FedEx MSMA(ANL)	Date: 8/22/2024	Received By: PCI	Date: 8/22	Cooler Temperature:
	Time:	Of:	Time: 14:59 1.5	(W)

Other comments or notes regarding condition of samples as received:

N = Normal env. sample, FD = field duplicate, EB = Equipment Blank, TB = Trip Blank, MS = Lab Matrix Spike, Other (Specify): FRB = Field Reagent Blank
SE = Sediment, SO = Soil, WG = Groundwater, WQ = Water Quality, WS = Surface Water, WW = Waste Water, WP = Potable Water, AA = Ambient Air, Other (Specify):
0 = none, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = Zn Acetate, 6 = MeOH, 7 = $NaHSO_4$, 8 = Na_3PO_4, 9 = BenzalkoniumCl, 10 = other

Anthony Green AUG 22 2024 2351
PACE 8/23/24 0000
PACE 8/23/24 0400

Anthony Green
Confidential
Rel: PACE 8/23/24 06:00

Rel: PACE 8/23/24 08:05
8/23/24 805

Table of Contents

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

Log In Back-Sheet

Client Ramboll (DEC)

Project Claremont Poly Site 03

MCP/RCP Required no

Deliverable Package Requirement none

Location Old Bethpage, NY

PWSID# (When Applicable) n/a

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time LA 8/23/24 0805

Back-Sheet By / Date / Time MKM 8/23/24 1522

Temperature Method Gun # 4

WV samples: Yes (see note*) / No (follow normal procedure)

Temp < 6° C Actual Temperature 2Ø

Rush Samples: Yes / No Notify No

Short Hold: Yes / No Notify No

Notes regarding Samples/COC outside of SOP:

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

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☐
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

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

Qualtrax ID: 120836

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

Sample			
16oz Amb/Clear	Soils Jars	(Circle Amb/Clear)	
8oz Amb/Clear			
4oz Amb/Clear			
2oz Amb/Clear			
Unpreserved	Ambers	1 Liter	
HCL			
Sulfuric			
Sulfuric		250mL	
Phosphoric			
HCl			
Unpreserved		100mL	
Unpreserved	Plastics	1 Liter	
Sulfuric			
Unpreserved ← 2		500mL	
Sulfuric			
Unpreserved		250mL	
Trizma			
Sulfuric			
Nitric			
NaOH			
Ammonium Acetate			
NaOH/Zinc			
Unpreserved	VOA Vials		
HCl			
MeOH			
D.I. Water			
BiSulfate			
Col/Bact	Other / Fill in		
← 1 125ml plastic unp.			

Qualtrax ID: 120836