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

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

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MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE ACTIVITIES (JANUARY 2025) 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 January 2025. In addition, former Operable Unit (OU4) was inspected once per month to ensure security and building code compliance. For this report every time plant is mentioned it refers to OU5. OU4 will be referred to as such whenever discussed. This report covers the O&M activities for the system during the period defined as beginning at approximately 0800 hours, December 31, 2024, through approximately 0800 hours, January 31, 2025. O&M conducted during this reporting period was guided by the site O&M Manual.

The GWTS – treatment plant, grounds, and well systems - were maintained for the 31 days in this reporting period during which the treatment system experienced no 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.

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The treatment process control and alarm systems are functional. The recovery well pumps, process pumps, and air stripper blower are operated in the automatic mode and are normally remotely controlled and monitored. The RW-3 through RW-5 recovery wells were functional and fully operational during the month of January.

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 (January 25 Database.xlsx)
- NYSDEC Log-in Sheet – Entry/Exit Log with COVID-19 Acknowledgement

1.2 Summary of Maintenance Activities

The operation and maintenance of the treatment system, facility, and associated equipment is performed in accordance with the site O&M Manual. These tasks and inspections incorporate the equipment manufacturers' recommendations, operations experience, and good engineering and maintenance practices. A detailed accounting of the January activities is further provided in the plant operator's daily logbook.

Maintenance and project activities undertaken during the January period included:

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

1.3 Maintenance Logs

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

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

2. TECHNICAL SUPPORT ACTIVITIES

2.1 GES/Ramboll Personnel

- GES maintained the system throughout the period.
- On January 29 through January 31, 2025, Rebecca Britt and Ben Oppedisano (Ramboll) were on site to conduct quarterly groundwater sampling activities.
- On January 30, 2025, Conner Custance (Ramboll) was on site at OU-4 to conduct contractor bid walk for the demo project.

2.2 NYSDEC Personnel, Sub - contractors, and Other Visitors

- No visitors during January reporting period.

2.3 Deliveries

- On January 2, 2025, Pace courier delivered coolers for the monthly system sampling activities.
- On January 27, 2025, Pace courier delivered coolers for the quarterly groundwater sampling activities.
- On January 28, 2025, UPS delivered supplies for the quarterly groundwater sampling activities.

3. HEALTH AND SAFETY

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

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

4. PLANNED ACTIVITIES AND SCHEDULES

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

Upcoming tasks include:

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

5. MONITORING WELL WATER ELEVATIONS

The monitoring well system's groundwater elevation data table was updated as part of the January 2025 quarterly GW elevation recording task. This database is available for review. The next set of synoptic water level measurements will be scheduled for May 2025 and will be conducted by Ramboll.

6. TREATMENT SYSTEM FLOWS

During the January 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 January 2025, recovery wells RW-3 through RW-5 operated normally.

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

During the month of January, the plant discharge was directed solely to Recharge Basin 1.

The total volume of treated water discharged from ~0800 hours December 31, 2024 to ~0800 hours January 31, 2025 was approximately 31,901,000 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 January 2025 are provided in **Table 3**, both following the text of this report.

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

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

7. CHEMICAL CONSUMPTION

The hydrochloric acid feed system is currently off-line, and the system is void of acid. There are four drums of virgin acid on site. No acid was used for water treatment purposes in January of 2025.

The sodium hydroxide storage system is currently not in use and the system is empty of caustic. There is no bulk sodium hydroxide on site and no caustic was used in January of 2025.

The sodium hypochlorite storage system is currently not in use and the system is empty of bleach. No bulk sodium hypochlorite is stored on site. No sodium hypochlorite was used in January of 2025.

8. WASTE DISPOSALS

Routine accumulation of waste materials continued from plant day to day operations. Waste removal is being handled by National Waste Services, LLC. The waste container was last emptied in September 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 January 6, 2025 indicate that the

analyzed parameters were compliant with permit limits (**Table 6**). Monthly system sampling analytical results are provided in **Attachment 1**.

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

10. PENDING ISSUES AND CONSIDERATIONS

Ramboll is currently planning demolition of the OU4 building; and is tentatively scheduled for 2025.

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

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

The status of key aspects of OU4 are as follows:

- The plant heat is currently off, and the system is out of service.
- The fire alarm panels are off-line.
- The fire sprinkler system is currently off-line. The water has been drained from the system. Although BK Fire Suppression Systems LLC installed a central monitoring and an alarm system on the sprinkler system at OU4 in the past, the system is not operational.
- The facility is secure, and its physical monitoring continues.
- The facility and grounds are not maintained except for the facility entrance and plant egress points.
- NYSDEC plans on decommissioning and demolishing OU4. A team from Ramboll has selected a contractor and has scheduled the work to begin during 1st Quarter 2025.

11. PLANT DOCUMENTS

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

12. MONITORING RESULTS

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

12.1 Off-site Analytical Data Results

Monthly Plant Discharge (PD) samples are taken for organic analysis in compliance with the NYSDEC discharge permit. Quarterly groundwater samples are taken for organic analysis, and quarterly process water (PW) samples are taken for organic, inorganic, and generic analysis. At the direction of the NYSDEC in an August 17, 2022 email, analysis of Per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane were added to monthly sampling for both influent and

effluent for the foreseeable future. The January 2025 PFAS and 1,4-dioxane influent and effluent results can be found in **Table 7** following the text of this report. Monthly and quarterly system sampling analytical results are provided in **Attachment 1**.

The January sampling activities included:

- The January PD data was processed and submitted.
- Monthly system sampling was completed on January 6, 2025.

12.2 Field Data

12.2.1 Plant Discharge pH and Temperature

The treatment plant effluent is monitored for pH and temperature on a weekly basis to obtain a monthly average in compliance with the NYSDEC discharge permit requirements. These measurements are taken from the plant effluent at a controlled point with a calibrated portable meter. The plant discharge readings for January 2025 can be found in **Table 8** following the text of this report.

The January 2025 average pH measurement was 7.19 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 January 2025 readings from the AS tower are provided in **Table 10**.

Other routine data collected in January 2025 included:

- The electric and water meter readings at OU5 were recorded weekly.
- The plant vaults and selected areas were monitored for VOCs weekly.
- The plant sound levels were recorded bi-weekly.
- The monthly electric and gas meter readings for OU4 were recorded.
- The recharge basins were inspected weekly.
- The differential pressure readings across the AS Tower were recorded bi-weekly.

13. PROCESS ANALYSIS AND SYSTEM STATUS

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

13.1 Extraction (RW) Processes

- The monthly system inspection was completed.

- The vault space heating units were reactivated in December 2024.
- The recovery well pump system is remotely controlled and monitored, it operates in the auto mode.
- RW-4 pump experienced electrical issues and shut down on May 21, 2024. It has been subsequently placed back online, however, it continues to experience randomized shut downs. Upon further testing, GES plans to replace the motor starter and relay overload at the controls of RW-4.
- Pump flow readouts are transmitted to the plant and the totalizers for pumps RW-3, and RW-4 are fully functional. The local flow meter for RW-5 occasionally stops transmitting.
- Air/Vacuum (A/V) valve at station 33+96 encountered a leak in May 2023 that required the vault to be pumped out and have its air/vacuum valve removed. Currently a stopper has been fitted to the pit that allows water to flow through the system.
- The Air/Vacuum (A/V) valve at station 16+57 and 17+10 remain isolated from the transmission line.
- RW-1 and RW-2 are offline and periodically run for preventative maintenance purposes. Their flow meters are not transmitting through the PLC. When repairs were made at RW-1 in November 2021, stones were removed from the flow meterhousing. There was a thick coating of iron salt deposits on the housing and impeller. Both RW-1 and RW-2 are isolated from the process pipeline throughout the operating period. On a monthly basis, the isolation valves are actuated open and pumps are run for five minutes to rotate the motors. The RW-1 pump was tested operational last as of June 2024. The motor controls (motor starter with relay overload) were taken from RW-1 and installed at RW-5 on June 18, 2024 due to these parts being obsolete. RW-1 will remain offline and inoperative until suitable replacement can be obtained.
- RW-2 pump was last tested operational in November 2024. The motor starter and relay overload were removed on November 18, 2024 and installed at RW-3. RW-2 will remain offline and inoperative until suitable replacement parts can be obtained.

13.2 AS Process

- The three OU5 ASF pumps in the AS Process are fully functional.
- Motors and seals were lubricated on a bi-weekly schedule. Seals were tightened and the drains were cleared as necessary.
- The AS tower main drain valve’s manual actuator is not functional (fail open).
- The tower media appears clean as the pressure differential between the top and bottom ports remains relatively constant. The lower section of media has been visuallyinspected.
- The discharge valves for ASF P1 and P2 appear to be frozen in the open position.
- Two floats in the ASF wet vault were replaced on November 1, 2024.

13.3 PD Process

- The plant discharge flow is directed intermittently to Recharge Basin 1 and Recharge Basin 33 based on RB33 liquid level.
- Pump PF-1 was historically taken out of service due to excessive noise and vibration. A full evaluation is required.
- Pump PF-2 and PF-3 remain fully functional.
- The motors and seals were lubricated as necessary.
- The discharge valve for PFF P-3 has failed open.

13.4 Other

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

14. GROUNDS

14.1 Plant Perimeter

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

14.2 Well Field

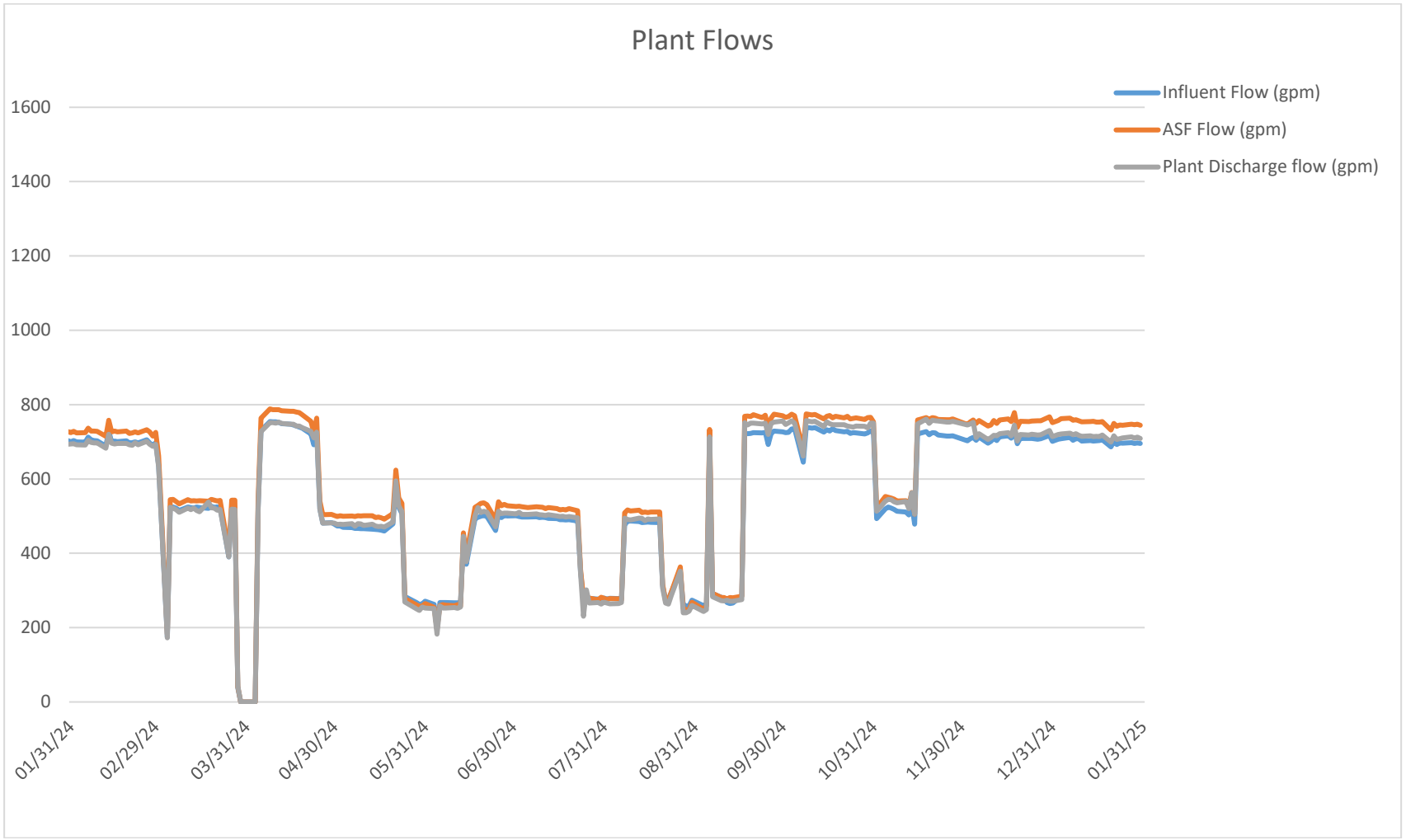
- Well field, and recharge basin inspections continue. Quarterly groundskeeping activities are performed to clear vegetation and poison ivy from around all well fields in anticipation of quarterly groundwater sampling events. In addition, the entrance to Recharge Basin 33 is maintained for ease of access.

14.3 Other

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

FIGURE

Figure 1
Plant Discharge Daily Flow



TABLES

Table 1
Claremont Corrective Actions Summary

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

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
AS Tower main drain valve is not controlled	The valve does not respond to manipulation of its actuator. **This valve should be replaced.** **No further action is planned at this time.**	Operator	Plant will need to be shut down to change out the valve	None
OU4 fire alarm system is not functioning Central monitoring of the fire alarm system or fire suppression system does not exist OU4 electrical system has been unstable	The Nassau County Fire Code indicates that the sprinkler system must have central monitoring for flow and valve tampering. The fire alarm system needs to be replaced and centrally monitored. Several contractors have been at the site to propose options for the system. BK Fire installed central monitoring on the sprinkler system. Both are offline as the sprinkler system will remain drained until the HVAC system is repaired. Certain OU4 lights currently create a large amount of noise in the fan box within the control room. The southern lights flicker and then die including the emergency system. OU4 is currently being planned for demolition to begin during 1st Quarter 2025.	Plant operator, Electrical Engineer (EE) and outside vender	None at this time	Fire code violations. High altitude tasks, safety code violations
The float controls for the PFF pump system have intermittently shorted out causing the system to not properly control the pumping operation	The wiring of the pump control system is connected below grade. The junction box in the wet well is thought to be filled with water creating a problem with the float switches to control relay wiring. The box cannot be opened without damage to it and the conduit. This appears to have been a longstanding problem, as when switches have been replaced in the past, they were spliced outside the box.	Plant operator and GES resources	Plant shut down is required	Possible Confined Space Entry work

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	The output from the W-2 relay was moved to the output for the W-1 relay. This has stopped the short cycling. **The control wiring should be changed and moved above grade. Currently the second splices to the floats are above ground outside the vault.**			
PFF Pump Reliability	Pump PFF P1 was removed from service on February 24, 2020. Remaining pumps PFF P2 and PFF P3 are aging and rusted, preventing any significant maintenance if problems arise. **It is recommended that replacement pumps be specified and PFF P1 be replaced in the event that PFF P2 or PFF P3 fail.**	Ramboll Engineers (design), Outside contractors (installation)	Less water being treated if another PFF pump fails.	To be determined
As the ASF pumps cycle off/on, the check valves have started to slam closed. When reactivating, the motor starter contact is rather violent. Both actions tend to rattle the piping and fixtures	There is no available literature regarding the check valves, so the exact description of their functioning parts is to be determined. A softer start/stop control may fix this issue. **This will need further investigation. Soft-start equipment and variable frequency controls were discussed.**	Plant operator and EE support	If replacement or repairs are necessary, a plant shutdown will be required as the units can- not be isolated	To be determined
The flowmeters for system flow, ASF flow and plant discharge are out of sync with the flow meters on the recovery wells	While the ASF flow meter is the most out of line, it is plumbed correctly. The influent system flow meter and the plant discharge flow meters are piped incorrectly. The same style of relay is used to count pulses, but the meters have not been calibrated. **The while the flow meters for the system show differences between recorded flows, they are**	EE support	To be determined	none

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	not significant enough to warrant action at this time.			
EF-4 is not operable	The fan is controlled through the mezzanine thermostat, but is non-functional. **The fan should be replaced.**	EE support	Only in an emergency	Only in an emergency
Wiring nests in main control console	**The wiring in the main control console needs to be cleaned up and labeled, to facilitate problem troubleshooting and process improvements.**	EE support	A shut down may be necessary	Electrical work
Pressure Filter Feed pump controls	With P1 out of service, the sequencing of pumps allows for the PFF vault to reach HHL conditions in certain circumstances. **Reprogram the sequencing to eliminate the position of P1.**	EE support	To be determined	To be determined
Air vacuum valve removal	On May 22, 2022 RW-4 was shut down due to a leak detected in the field near an air/vacuum valve pit. On May 24 2022 through May 25, 2022 water was pumped out of the vault and on May 31, 2022 a confined space entry was made to attempt to tighten the valve in an effort to stop the leak. This tightening was unsuccessful, and the valve was removed entirely and replaced with a blank flange until further notice.	GES Mechanical Support	Less water is treated	Confined space entry required to do work in vault

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	Perform a reassessment of the RW Discharge Manifold infrastructure relative to condition of key components.			
Plant Electric Heater and HVAC system performance	The HVAC system struggles to provide sufficient heat in the process room in very cold temperatures and the hanging heaters in the process room are not functional. **Coordinate upgrades to HVAC and replacement of emergency heaters.**	EE support and Outside contractor	Water lines freezing	Equipment damage

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

- The methane detection system is offline. **To function, it will need a technical inspection and maintenance**. However, methane does not currently appear to be a hazard. A Town of Oyster Bay contractor completed plant and surrounding area testing for methane gas on March 25, 2024.
- It has been determined that intrinsically safe components are no longer required in the plant.
- There has been no need for acid washing of the AS Tower media, the hydrochloric acid feed and storage system have not been operated. The tanks have not been filled and the level monitoring system has not been operated.

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

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

Equipment	Fault	Status
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
Q3 2024	440	633,318	57,658,000	35	132,445
Q4 2024	709	977,100	88,790,000	5,457	125,646
January 2025	715	1,029,065	31,901,000	0	44,640

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

January 2025 Flows	Plant Influent		Plant Discharge		RW Discharge	
Date	Volume	Avg. Flow	Volume	Avg. Flow	Volume	Avg. Flow
12/31/24	-	767	-	731	-	717
01/02/25	2,164,000	751	2,056,000	714	2,020,000	701
01/03/25	1,091,000	758	1,036,000	719	1,018,000	707
01/06/25	3,294,000	31901000	3,115,000	721	3,061,000	709
01/07/25	1,100,000	764	1,041,000	723	1,025,000	712
01/08/25	1,092,000	758	1,035,000	719	1,014,000	704
01/09/25	1,094,000	760	1,039,000	722	1,020,000	708
01/10/25	1,090,000	757	1,033,000	717	1,020,000	708
01/13/25	3,255,000	753	3,088,000	715	3,033,000	702
01/14/25	1,086,000	754	1,031,000	716	1,013,000	703
01/15/25	1,087,000	755	1,028,000	714	1,011,000	702
01/16/25	1,084,000	753	1,029,000	715	1,012,000	703
01/17/25	1,084,000	753	1,028,000	714	1,013,000	703
01/20/25	3,260,000	755	3,102,000	718	3,048,000	706
01/21/25	1,054,000	732	1,007,000	699	988,000	686
01/22/25	1,079,000	749	1,031,000	716	1,011,000	702
01/23/25	1,068,000	742	1,017,000	706	998,000	693
01/24/25	1,073,000	745	1,020,000	708	1,004,000	697
01/27/25	3,217,000	745	3,069,000	710	3,008,000	696
01/28/25	1,076,000	747	1,027,000	713	1,005,000	698
01/29/25	1,074,000	746	1,022,000	710	1,002,000	696
01/30/25	1,076,000	747	1,026,000	713	1,004,000	697
01/31/25	1,072,000	744	1,021,000	709	1,002,000	696
	January Total Plant **Influent** (Gal)			33,570,000		
	January Total Plant **Effluent** (Gal)			31,901,000		
	January Total **RW Discharge** (Gal)			31,330,000		

Acronyms: gal - gallons gpm – gallons per minute

Table 4
Pump System Flow Readings

January 2025	On-Time Minutes (actual)	Avg. Flow (gpm)	Avg. Flow (gpd)	Total Flow (gal)
RW-1*	0	NR	0	0
RW-2*	0	NR	0	0
RW-3	44,640	243	349,710	10,841,000
RW-4	44,640	256	369,290	11,448,000
RW-5	44,640	235	338,935	10,507,000
RW Totals	44,640	702	1,010,645	31,330,000
Plant Influent	44,640	752	1,082,903	33,570,000
Plant Effluent	44,640	715	1,029,065	31,901,000

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

The treatment process was online 31 days in January 2025 with 0 minutes of downtime .

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

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

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

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

Table 6
Plant Discharge Analytical Results
January 6, 2025

Parameters	Discharge Limitations (SPDES)	Units	Results
pH (range)	*6.5 – 8.5*	*su*	*7.19*
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
January 6, 2025

Parameters	Guidance Values	Units	Influent Results	Effluent Results
PFOA	6.7[1]	ng/l	44	48
PFOS	2.7[1]	ng/l	14	17
1,4-Dioxane	0.35[1]	ug/l	19	19

J – Estimated value **U** – Analyzed but not detected **ug/l** – micrograms per liter **ng/l** – nanograms per liter **x / x** – indicates primary/duplicate results **PFOA** - Perfluorooctanoic acid **PFOS** - Perfluorooctanesulfonic acid

[1] NYSDEC - 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) N0. 1.1.1.

Table 8
Effluent pH and Temperature Readings

Date	pH (su)	Temp (°C)
01/09/25	7.04	11.1
01/13/25	7.72	13.4
01/22/25	7.01	12.9
01/29/25	7.00	16.1
January Average	**7.19 su**	**13.4 °C**

Table 9
Plant Discharge Monthly Average pH

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

Month	pH(su)
Jan ‘23	7.24
Feb ‘23	7.36
Mar ‘23	7.56
Apr ‘23	7.28
May ‘23	7.56
June‘23	7.36
July`23	7.39
Aug`23	7.24
Sept`23	7.25
Oct`23	7.22
Nov`23	6.99
Dec`23	6.94
Jan`24	6.81
Feb`24	6.94
Mar`24	7.00
Apr`24	7.23
May`24	7.20
Jun`24	7.28
July`24	7.21
Aug`24	7.11
Sep`24	7.21
Oct`24	7.06
Nov`24	7.01
Dec`24	7.09
Jan`25	7.19

Plant Discharge Monthly Average pH Reading

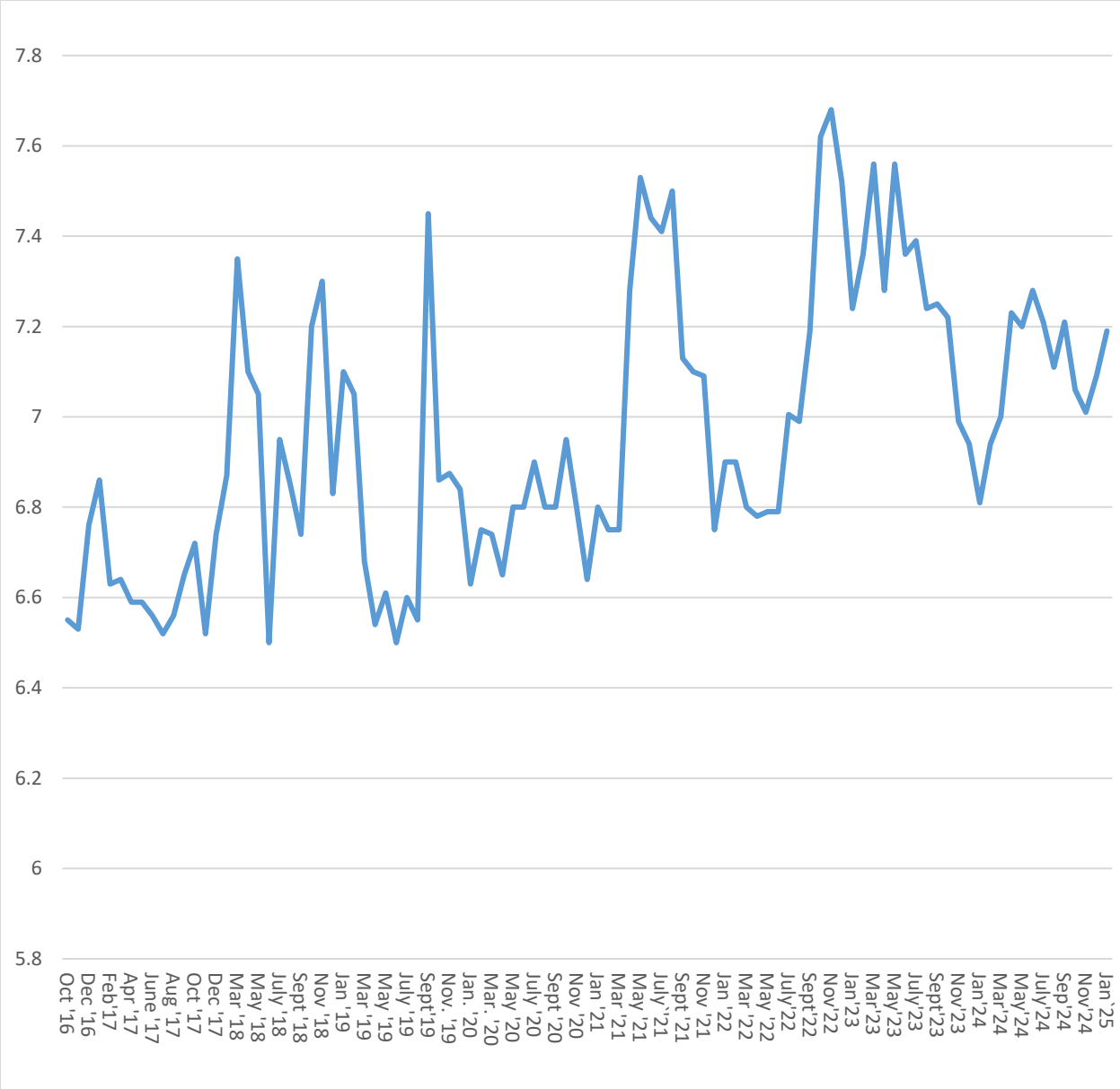


Table 10
AS Tower Air Monitoring Readings

Recorded Date	Port B (ppm)
01/09/25	0.0
01/13/25	0.0
01/24/25	0.0
01/29/25	0.0

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

Pace Analytical Services, LLC - East Longmeadow, Ma

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

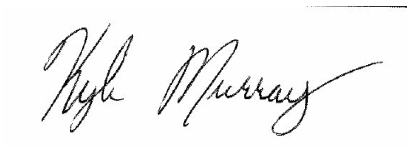
January 28, 2025

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

Project Location: Old Bethpage, New York
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 25A0214

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

Sincerely,



Kyle A. Murray
Project Manager

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Pace Analytical Services, LLC - East Longmeadow, Ma

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

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

REPORT DATE: 1/28/2025

PURCHASE ORDER NUMBER: 151811

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25A0214

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

PROJECT LOCATION: Old Bethpage, New York

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PD-CP-00-010625	25A0214-01	Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
PD-CP-01-010625	25A0214-02	Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
ASF-CP-00-010625	25A0214-03	Water		Draft Method 1633	
				SW-846 8270E	
ASF-CP-01-010625	25A0214-04	Water		Draft Method 1633	
				SW-846 8270E	
TB-010625	25A0214-05	Trip Blank Water		SW-846 8260D	

Pace Analytical Services, LLC - East Longmeadow, Ma

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

CASE NARRATIVE SUMMARY

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

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Draft Method 1633

Qualifications:

PF-22

Qualifier ion ratio >150% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

N-EtFOSAA (NEtFOSAA)
25A0214-02RE1[PD-CP-01-010625]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

13C2-8:2FTS
25A0214-02RE1[PD-CP-01-010625]

1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS
25A0214-02RE1[PD-CP-01-010625]

D3-NMeFOSAA
25A0214-02RE1[PD-CP-01-010625]

D5-NEtFOSAA
25A0214-02RE1[PD-CP-01-010625]

N-EtFOSAA (NEtFOSAA)
25A0214-02RE1[PD-CP-01-010625]

N-MeFOSAA (NMeFOSAA)
25A0214-02RE1[PD-CP-01-010625]

SW-846 8260D

Qualifications:

MS-15

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)
B396264-MS1, B396264-MSD1

Bromomethane
B396264-MS1, B396264-MSD1

Carbon Disulfide
B396264-MS1, B396264-MSD1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Naphthalene
B396264-MS1

MS-24

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

Analyte & Samples(s) Qualified:

Trichlorofluoromethane (Freon 11)
B396264-MS1

R-06

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

Analyte & Samples(s) Qualified:

Naphthalene
25A0214-01[PD-CP-00-010625], B396264-MS1, B396264-MSD1

V-05

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

Analyte & Samples(s) Qualified:

Chloromethane
25A0214-01[PD-CP-00-010625], 25A0214-02[PD-CP-01-010625], 25A0214-05[TB-010625], B396264-BLK1, B396264-BS1, B396264-BSD1, B396264-MS1, B396264-MSD1, S116547-CCV1

Pace Analytical Services, LLC - East Longmeadow, Ma

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

V-20

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

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)
B396264-BS1, B396264-BSD1, B396264-MS1, B396264-MSD1, S116547-CCV1

Bromomethane
B396264-BS1, B396264-BSD1, B396264-MS1, B396264-MSD1, S116547-CCV1

Carbon Disulfide
B396264-BS1, B396264-BSD1, B396264-MS1, B396264-MSD1, S116547-CCV1

Trichlorofluoromethane (Freon 11)
B396264-BS1, B396264-BSD1, B396264-MS1, B396264-MSD1, S116547-CCV1

SW-846 8270E

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

Caprolactam
25A0214-01RE1[PD-CP-00-010625], 25A0214-02[PD-CP-01-010625], B396277-BLK1, B396277-BS1, B396277-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
25A0214-01RE1[PD-CP-00-010625], 25A0214-02[PD-CP-01-010625], B396277-BLK1, B396277-BS1, B396277-BSD1, S116502-CCV1

Dibenz(a,h)anthracene
25A0214-01RE1[PD-CP-00-010625], 25A0214-02[PD-CP-01-010625], B396277-BLK1, B396277-BS1, B396277-BSD1, S116502-CCV1

Di-n-octylphthalate
25A0214-01RE1[PD-CP-00-010625], 25A0214-02[PD-CP-01-010625], B396277-BLK1, B396277-BS1, B396277-BSD1, S116502-CCV1

Indeno(1,2,3-cd)pyrene
25A0214-01RE1[PD-CP-00-010625], 25A0214-02[PD-CP-01-010625], B396277-BLK1, B396277-BS1, B396277-BSD1, S116502-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
25A0214-01RE1[PD-CP-00-010625], 25A0214-02[PD-CP-01-010625], B396277-BLK1, B396277-BS1, B396277-BSD1, S116502-CCV1

V-06

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

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene
25A0214-01RE1[PD-CP-00-010625], 25A0214-02[PD-CP-01-010625], B396277-BLK1, B396277-BS1, B396277-BSD1, S116502-CCV1

V-34

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

Analyte & Samples(s) Qualified:

Pyridine
25A0214-01RE1[PD-CP-00-010625], 25A0214-02[PD-CP-01-010625], B396277-BLK1, B396277-BS1, B396277-BSD1, S114725-ICV1, S116502-CCV1

Pace Analytical Services, LLC - East Longmeadow, Ma

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

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

Lisa A. Worthington
Technical Representative

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-00-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Naphthalene	ND	2.0	µg/L	1	R-06	SW-846 8260D	1/7/25	1/8/25 12:14	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-00-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.2	70-130		1/8/25 12:14
Toluene-d8	95.5	70-130		1/8/25 12:14
4-Bromofluorobenzene	99.1	70-130		1/8/25 12:14

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York Sample Description: Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-00-010625 Sampled: 1/6/2025 10:00

Sample ID: 25A0214-01

Sample Matrix: Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	1/7/25	1/8/25 12:14	MFF

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-00-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Atrazine	ND	18	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Benzaldehyde	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Caprolactam	ND	9.2	µg/L	1	L-04	SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Acenaphthene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Acenaphthylene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Acetophenone	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Aniline	ND	18	µg/L	1	V-05	SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Anthracene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Benzo(a)anthracene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Benzo(a)pyrene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Benzo(b)fluoranthene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Benzo(g,h,i)perylene	ND	4.6	µg/L	1	V-06	SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Benzo(k)fluoranthene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Bis(2-chloroethoxy)methane	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Bis(2-chloroethyl)ether	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
4-Bromophenylphenylether	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Butylbenzylphthalate	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Carbazole	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
4-Chloroaniline	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
4-Chloro-3-methylphenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2-Chloronaphthalene	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2-Chlorophenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
4-Chlorophenylphenylether	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Chrysene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Dibenz(a,h)anthracene	ND	4.6	µg/L	1	V-04	SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Dibenzofuran	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Di-n-butylphthalate	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
3,3-Dichlorobenzidine	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2,4-Dichlorophenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Diethylphthalate	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2,4-Dimethylphenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Dimethylphthalate	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2,4-Dinitrophenol	ND	9.2	µg/L	1	V-04	SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2,4-Dinitrotoluene	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2,6-Dinitrotoluene	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Di-n-octylphthalate	ND	9.2	µg/L	1	V-04	SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Fluoranthene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Fluorene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Hexachlorobenzene	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-00-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Hexachlorocyclopentadiene	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Hexachloroethane	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	µg/L	1	V-04	SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Isophorone	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
1-Methylnaphthalene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2-Methylnaphthalene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2-Methylphenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
3/4-Methylphenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Naphthalene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2-Nitroaniline	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
3-Nitroaniline	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
4-Nitroaniline	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Nitrobenzene	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2-Nitrophenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
4-Nitrophenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
N-Nitrosodi-n-propylamine	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Pentachlorophenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Phenanthrene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Phenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Pyrene	ND	4.6	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
Pyridine	ND	18	µg/L	1	V-34	SW-846 8270E	1/7/25	1/8/25 11:28	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2,4,5-Trichlorophenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL
2,4,6-Trichlorophenol	ND	9.2	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:28	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	21.0	15-110		1/8/25 11:28
Phenol-d6	20.2	15-110		1/8/25 11:28
Nitrobenzene-d5	99.7	30-130		1/8/25 11:28
2-Fluorobiphenyl	92.5	30-130		1/8/25 11:28
2,4,6-Tribromophenol	30.8	15-110		1/8/25 11:28
p-Terphenyl-d14	104	30-130		1/8/25 11:28

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-00-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-01

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	19	0.19	µg/L	1		SW-846 8270E	1/9/25	1/14/25 17:44	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	26.5	15-110		1/14/25 17:44

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-00-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	38	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluoropentanoic acid (PFPeA)	21	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorohexanoic acid (PFHxA)	25	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluoroheptanoic acid (PFHpA)	12	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorooctanoic acid (PFOA)	43	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorononanoic acid (PFNA)	29	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorobutanesulfonic acid (PFBS)	3.4	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluoropentanesulfonic acid (PFPeS)	2.5	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorohexanesulfonic acid (PFHxS)	7.4	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorooctanesulfonic acid (PFOS)	14	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
N-EtFOSAA (NEtFOSAA)	1.9	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.7	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-00-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-01

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:25	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	93.3	5-130		1/28/25 0:25
13C5-PFPeA	91.1	40-130		1/28/25 0:25
13C5-PFHxA	93.4	40-130		1/28/25 0:25
13C4-PFHpA	88.2	40-130		1/28/25 0:25
13C8-PFOA	99.9	40-130		1/28/25 0:25
13C9-PFNA	87.1	40-130		1/28/25 0:25
13C6-PFDA	84.8	40-130		1/28/25 0:25
13C7-PFUnA	76.3	30-130		1/28/25 0:25
13C2-PFDoA	64.6	10-130		1/28/25 0:25
13C2-PFTeDA	55.0	10-130		1/28/25 0:25
13C3-PFBS	93.0	40-135		1/28/25 0:25
13C3-PFHxS	91.2	40-130		1/28/25 0:25
13C8-PFOS	86.6	40-130		1/28/25 0:25
13C2-4:2FTS	144	40-200		1/28/25 0:25
13C2-6:2FTS	92.6	40-200		1/28/25 0:25
13C2-8:2FTS	67.8	40-300		1/28/25 0:25
13C8-PFOSA	71.8	40-130		1/28/25 0:25
D3-NMeFOSA	53.7	10-130		1/28/25 0:25
D5-NEtFOSA	51.3	10-130		1/28/25 0:25
D3-NMeFOSAA	65.9	40-170		1/28/25 0:25
D5-NEtFOSAA	63.7	25-135		1/28/25 0:25
D7-NMeFOSE	56.8	10-130		1/28/25 0:25
D9-NEtFOSE	53.7	10-130		1/28/25 0:25
13C3-HFPO-DA	95.8	40-130		1/28/25 0:25

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-01-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-01-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 12:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.7	70-130		1/8/25 12:40
Toluene-d8	96.1	70-130		1/8/25 12:40
4-Bromofluorobenzene	96.9	70-130		1/8/25 12:40

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York Sample Description: Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-01-010625 Sampled: 1/6/2025 10:00

Sample ID: 25A0214-02

Sample Matrix: Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	1/7/25	1/8/25 12:40	MFF

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-01-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-02

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Atrazine	ND	18	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Benzaldehyde	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Caprolactam	ND	8.9	µg/L	1	L-04	SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Acenaphthene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Acenaphthylene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Acetophenone	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Aniline	ND	18	µg/L	1	V-05	SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Anthracene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Benzo(a)anthracene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Benzo(a)pyrene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Benzo(b)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Benzo(g,h,i)perylene	ND	4.5	µg/L	1	V-06	SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Benzo(k)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Bis(2-chloroethoxy)methane	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Bis(2-chloroethyl)ether	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2,2'-oxybis(1-Chloropropane)	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Bis(2-Ethylhexyl)phthalate	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
4-Bromophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Butylbenzylphthalate	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Carbazole	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
4-Chloroaniline	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
4-Chloro-3-methylphenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2-Chloronaphthalene	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2-Chlorophenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
4-Chlorophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Chrysene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Dibenz(a,h)anthracene	ND	4.5	µg/L	1	V-04	SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Di-n-butylphthalate	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
3,3-Dichlorobenzidine	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2,4-Dichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Diethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2,4-Dimethylphenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Dimethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2,4-Dinitrophenol	ND	8.9	µg/L	1	V-04	SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2,4-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2,6-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Di-n-octylphthalate	ND	8.9	µg/L	1	V-04	SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Fluorene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Hexachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-01-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-02

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Hexachlorocyclopentadiene	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Hexachloroethane	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	µg/L	1	V-04	SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Isophorone	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
1-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
3/4-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Naphthalene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
3-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
4-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Nitrobenzene	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2-Nitrophenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
4-Nitrophenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
N-Nitrosodi-n-propylamine	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Pentachlorophenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Phenanthrene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Phenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Pyrene	ND	4.5	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
Pyridine	ND	18	µg/L	1	V-34	SW-846 8270E	1/7/25	1/8/25 11:49	BGL
1,2,4,5-Tetrachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2,4,5-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL
2,4,6-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	1/7/25	1/8/25 11:49	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	35.5	15-110		1/8/25 11:49
Phenol-d6	30.1	15-110		1/8/25 11:49
Nitrobenzene-d5	96.8	30-130		1/8/25 11:49
2-Fluorobiphenyl	87.4	30-130		1/8/25 11:49
2,4,6-Tribromophenol	44.6	15-110		1/8/25 11:49
p-Terphenyl-d14	99.6	30-130		1/8/25 11:49

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-01-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-02

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	18	0.19	µg/L	1		SW-846 8270E	1/7/25	1/8/25 13:17	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	29.4	15-110					1/8/25 13:17

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-01-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-02

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	36	5.9	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluoropentanoic acid (PFPeA)	20	3.0	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorohexanoic acid (PFHxA)	28	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluoroheptanoic acid (PFHpA)	13	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorooctanoic acid (PFOA)	48	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorononanoic acid (PFNA)	32	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorobutanesulfonic acid (PFBS)	4.2	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluoropentanesulfonic acid (PFPeS)	3.1	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorohexanesulfonic acid (PFHxS)	7.8	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorooctanesulfonic acid (PFOS)	17	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	ng/L	1	S-29	Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1	S-29	Draft Method 1633	1/27/25	1/28/25 0:35	AMS
N-EtFOSAA (NEtFOSAA)	2.3	1.5	ng/L	1	PF-22, S-29	Draft Method 1633	1/27/25	1/28/25 0:35	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.9	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
9Cl-PF3ONS (F53B Minor)	ND	5.9	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
11Cl-PF3OUdS (F53B Major)	ND	5.9	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.4	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: PD-CP-01-010625 | Sampled: 1/6/2025 10:00

Sample ID: 25A0214-02

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.0	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:35	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	79.2		5-130		1/28/25 0:35
13C5-PFPeA	74.0		40-130		1/28/25 0:35
13C5-PFHxA	72.5		40-130		1/28/25 0:35
13C4-PFHpA	64.8		40-130		1/28/25 0:35
13C8-PFOA	64.9		40-130		1/28/25 0:35
13C9-PFNA	57.5		40-130		1/28/25 0:35
13C6-PFDA	49.8		40-130		1/28/25 0:35
13C7-PFUnA	41.4		30-130		1/28/25 0:35
13C2-PFDoA	29.8		10-130		1/28/25 0:35
13C2-PFTeDA	15.4		10-130		1/28/25 0:35
13C3-PFBS	65.9		40-135		1/28/25 0:35
13C3-PFHxS	57.9		40-130		1/28/25 0:35
13C8-PFOS	43.0		40-130		1/28/25 0:35
13C2-4:2FTS	90.8		40-200		1/28/25 0:35
13C2-6:2FTS	57.6		40-200		1/28/25 0:35
13C2-8:2FTS	**36.8**	*	40-300	S-29	1/28/25 0:35
13C8-PFOSA	60.6		40-130		1/28/25 0:35
D3-NMeFOSA	49.8		10-130		1/28/25 0:35
D5-NEtFOSA	43.9		10-130		1/28/25 0:35
D3-NMeFOSAA	**29.3**	*	40-170	S-29	1/28/25 0:35
D5-NEtFOSAA	**23.2**	*	25-135	S-29	1/28/25 0:35
D7-NMeFOSE	50.0		10-130		1/28/25 0:35
D9-NEtFOSE	44.5		10-130		1/28/25 0:35
13C3-HFPO-DA	81.3		40-130		1/28/25 0:35

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: ASF-CP-00-010625 | Sampled: 1/6/2025 09:30

Sample ID: 25A0214-03

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	19	0.19	µg/L	1		SW-846 8270E	1/7/25	1/8/25 13:38	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	29.1	15-110					1/8/25 13:38

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: ASF-CP-00-010625 | Sampled: 1/6/2025 09:30

Sample ID: 25A0214-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	29	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluoropentanoic acid (PFPeA)	19	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorohexanoic acid (PFHxA)	24	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluoroheptanoic acid (PFHpA)	12	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorooctanoic acid (PFOA)	43	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorononanoic acid (PFNA)	27	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorobutanesulfonic acid (PFBS)	3.3	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluoropentanesulfonic acid (PFPeS)	2.7	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorohexanesulfonic acid (PFHxS)	7.5	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorooctanesulfonic acid (PFOS)	13	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: ASF-CP-00-010625 | Sampled: 1/6/2025 09:30

Sample ID: 25A0214-03

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:44	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	97.3	5-130		1/28/25 0:44
13C5-PFPeA	92.7	40-130		1/28/25 0:44
13C5-PFHxA	94.4	40-130		1/28/25 0:44
13C4-PFHpA	87.9	40-130		1/28/25 0:44
13C8-PFOA	96.0	40-130		1/28/25 0:44
13C9-PFNA	86.9	40-130		1/28/25 0:44
13C6-PFDA	85.2	40-130		1/28/25 0:44
13C7-PFUnA	77.5	30-130		1/28/25 0:44
13C2-PFDoA	69.6	10-130		1/28/25 0:44
13C2-PFTeDA	60.5	10-130		1/28/25 0:44
13C3-PFBS	88.6	40-135		1/28/25 0:44
13C3-PFHxS	85.1	40-130		1/28/25 0:44
13C8-PFOS	85.4	40-130		1/28/25 0:44
13C2-4:2FTS	134	40-200		1/28/25 0:44
13C2-6:2FTS	85.2	40-200		1/28/25 0:44
13C2-8:2FTS	73.3	40-300		1/28/25 0:44
13C8-PFOSA	68.9	40-130		1/28/25 0:44
D3-NMeFOSA	58.1	10-130		1/28/25 0:44
D5-NEtFOSA	51.3	10-130		1/28/25 0:44
D3-NMeFOSAA	69.5	40-170		1/28/25 0:44
D5-NEtFOSAA	72.0	25-135		1/28/25 0:44
D7-NMeFOSE	57.0	10-130		1/28/25 0:44
D9-NEtFOSE	53.7	10-130		1/28/25 0:44
13C3-HFPO-DA	100	40-130		1/28/25 0:44

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: ASF-CP-01-010625 | Sampled: 1/6/2025 09:30

Sample ID: 25A0214-04

Sample Matrix: Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	19	0.19	µg/L	1		SW-846 8270E	1/7/25	1/8/25 13:58	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	28.0	15-110						1/8/25 13:58

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: ASF-CP-01-010625 | Sampled: 1/6/2025 09:30

Sample ID: 25A0214-04

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	38	6.3	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluoropentanoic acid (PFPeA)	19	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorohexanoic acid (PFHxA)	26	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluoroheptanoic acid (PFHpA)	13	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorooctanoic acid (PFOA)	44	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorononanoic acid (PFNA)	29	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorobutanesulfonic acid (PFBS)	3.3	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluoropentanesulfonic acid (PFPeS)	3.0	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorohexanesulfonic acid (PFHxS)	8.0	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorooctanesulfonic acid (PFOS)	14	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
N-EtFOSAA (NEtFOSAA)	1.6	1.6	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: ASF-CP-01-010625 | Sampled: 1/6/2025 09:30

Sample ID: 25A0214-04

Sample Matrix: Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L	1		Draft Method 1633	1/27/25	1/28/25 0:53	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	82.0	5-130		1/28/25 0:53
13C5-PFPeA	77.8	40-130		1/28/25 0:53
13C5-PFHxA	78.5	40-130		1/28/25 0:53
13C4-PFHpA	73.9	40-130		1/28/25 0:53
13C8-PFOA	81.1	40-130		1/28/25 0:53
13C9-PFNA	72.6	40-130		1/28/25 0:53
13C6-PFDA	76.8	40-130		1/28/25 0:53
13C7-PFUnA	74.3	30-130		1/28/25 0:53
13C2-PFDoA	64.9	10-130		1/28/25 0:53
13C2-PFTeDA	59.4	10-130		1/28/25 0:53
13C3-PFBS	74.6	40-135		1/28/25 0:53
13C3-PFHxS	72.8	40-130		1/28/25 0:53
13C8-PFOS	79.5	40-130		1/28/25 0:53
13C2-4:2FTS	110	40-200		1/28/25 0:53
13C2-6:2FTS	68.5	40-200		1/28/25 0:53
13C2-8:2FTS	62.5	40-300		1/28/25 0:53
13C8-PFOSA	61.3	40-130		1/28/25 0:53
D3-NMeFOSA	58.3	10-130		1/28/25 0:53
D5-NEtFOSA	56.2	10-130		1/28/25 0:53
D3-NMeFOSAA	69.4	40-170		1/28/25 0:53
D5-NEtFOSAA	67.8	25-135		1/28/25 0:53
D7-NMeFOSE	56.7	10-130		1/28/25 0:53
D9-NEtFOSE	53.5	10-130		1/28/25 0:53
13C3-HFPO-DA	78.6	40-130		1/28/25 0:53

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: TB-010625 | Sampled: 1/6/2025 09:30

Sample ID: 25A0214-05

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	1/7/25	1/8/25 10:56	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: TB-010625 | Sampled: 1/6/2025 09:30

Sample ID: 25A0214-05

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	1/7/25	1/8/25 10:56	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	1/7/25	1/8/25 10:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.0	70-130		1/8/25 10:56
Toluene-d8	95.8	70-130		1/8/25 10:56
4-Bromofluorobenzene	98.6	70-130		1/8/25 10:56

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York | Sample Description: | Work Order: 25A0214

Date Received: 1/7/2025

Field Sample #: TB-010625 | Sampled: 1/6/2025 09:30

Sample ID: 25A0214-05

Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	1/7/25	1/8/25 10:56	MFF

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Sample Extraction Data

Prep Method:EPA 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25A0214-01RE1 [PD-CP-00-010625]	B397453	523	4.00	01/27/25
25A0214-02RE1 [PD-CP-01-010625]	B397453	538	4.00	01/27/25
25A0214-03RE1 [ASF-CP-00-010625]	B397453	524	4.00	01/27/25
25A0214-04RE1 [ASF-CP-01-010625]	B397453	510	4.00	01/27/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25A0214-01 [PD-CP-00-010625]	B396264	5	5.00	01/07/25
25A0214-02 [PD-CP-01-010625]	B396264	5	5.00	01/07/25
25A0214-05 [TB-010625]	B396264	5	5.00	01/07/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25A0214-02 [PD-CP-01-010625]	B396269	1050	1.00	01/07/25
25A0214-03 [ASF-CP-00-010625]	B396269	1050	1.00	01/07/25
25A0214-04 [ASF-CP-01-010625]	B396269	1030	1.00	01/07/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25A0214-01RE1 [PD-CP-00-010625]	B396277	109	1.00	01/07/25
25A0214-02 [PD-CP-01-010625]	B396277	112	1.00	01/07/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25A0214-01RE1 [PD-CP-00-010625]	B396467	1050	1.00	01/09/25

Pace Analytical Services, LLC - East Longmeadow, Ma

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B396264 - SW-846 5030B										
Blank (B396264-BLK1)				Prepared: 01/07/25 Analyzed: 01/08/25						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
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							V-05
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 B396264 - SW-846 5030B											
Blank (B396264-BLK1)				Prepared: 01/07/25 Analyzed: 01/08/25							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*23.9*		µg/L	25.00		95.5	70-130				
Surrogate: Toluene-d8	*23.9*		µg/L	25.00		95.5	70-130				
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.00		99.1	70-130				
LCS (B396264-BS1)				Prepared: 01/07/25 Analyzed: 01/08/25							
Acetone	88.9	50	µg/L	100.0		88.9	70-160				†
Benzene	10.3	1.0	µg/L	10.00		103	70-130				
Bromochloromethane	10.8	1.0	µg/L	10.00		108	70-130				
Bromodichloromethane	11.2	0.50	µg/L	10.00		112	70-130				
Bromoform	11.4	1.0	µg/L	10.00		114	70-130				
Bromomethane	13.8	2.0	µg/L	10.00		138	40-160			V-20	†
2-Butanone (MEK)	86.8	20	µg/L	100.0		86.8	40-160				†
n-Butylbenzene	9.25	1.0	µg/L	10.00		92.5	70-130				
sec-Butylbenzene	8.81	1.0	µg/L	10.00		88.1	70-130				
tert-Butylbenzene	9.15	1.0	µg/L	10.00		91.5	70-130				
Carbon Disulfide	125	5.0	µg/L	100.0		125	70-130			V-20	
Carbon Tetrachloride	9.85	5.0	µg/L	10.00		98.5	70-130				
Chlorobenzene	9.90	1.0	µg/L	10.00		99.0	70-130				
Chlorodibromomethane	11.1	0.50	µg/L	10.00		111	70-130				
Chloroethane	10.3	2.0	µg/L	10.00		103	70-130				
Chloroform	11.3	2.0	µg/L	10.00		113	70-130				
Chloromethane	7.05	2.0	µg/L	10.00		70.5	40-160			V-05	†
Cyclohexane	8.24	5.0	µg/L	10.00		82.4	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.42	5.0	µg/L	10.00		84.2	70-130				
1,2-Dibromoethane (EDB)	11.6	0.50	µg/L	10.00		116	70-130				
1,2-Dichlorobenzene	9.42	1.0	µg/L	10.00		94.2	70-130				
1,3-Dichlorobenzene	9.43	1.0	µg/L	10.00		94.3	70-130				
1,4-Dichlorobenzene	9.37	1.0	µg/L	10.00		93.7	70-130				
Dichlorodifluoromethane (Freon 12)	9.29	2.0	µg/L	10.00		92.9	40-160				†
1,1-Dichloroethane	9.78	1.0	µg/L	10.00		97.8	70-130				
1,2-Dichloroethane	10.7	1.0	µg/L	10.00		107	70-130				
1,1-Dichloroethylene	9.82	1.0	µg/L	10.00		98.2	70-130				
cis-1,2-Dichloroethylene	9.63	1.0	µg/L	10.00		96.3	70-130				
trans-1,2-Dichloroethylene	9.08	1.0	µg/L	10.00		90.8	70-130				
1,2-Dichloropropane	9.93	1.0	µg/L	10.00		99.3	70-130				
cis-1,3-Dichloropropene	10.4	0.50	µg/L	10.00		104	70-130				
trans-1,3-Dichloropropene	11.3	0.50	µg/L	10.00		113	70-130				
Ethylbenzene	9.98	1.0	µg/L	10.00		99.8	70-130				
2-Hexanone (MBK)	86.6	10	µg/L	100.0		86.6	70-160				†
Isopropylbenzene (Cumene)	9.66	1.0	µg/L	10.00		96.6	70-130				
p-Isopropyltoluene (p-Cymene)	8.90	1.0	µg/L	10.00		89.0	70-130				
Methyl Acetate	11.5	1.0	µg/L	10.00		115	70-130				
Methyl tert-Butyl Ether (MTBE)	11.1	1.0	µg/L	10.00		111	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 B396264 - SW-846 5030B											
LCS (B396264-BS1)				Prepared: 01/07/25 Analyzed: 01/08/25							
Methyl Cyclohexane	11.3	1.0	µg/L	10.00		113	70-130				
Methylene Chloride	8.16	5.0	µg/L	10.00		81.6	70-130				
4-Methyl-2-pentanone (MIBK)	92.0	10	µg/L	100.0		92.0	70-160				†
Naphthalene	8.07	2.0	µg/L	10.00		80.7	40-130				†
n-Propylbenzene	9.95	1.0	µg/L	10.00		99.5	70-130				
Styrene	10.2	1.0	µg/L	10.00		102	70-130				
1,1,2,2-Tetrachloroethane	11.1	0.50	µg/L	10.00		111	70-130				
Tetrachloroethylene	10.9	1.0	µg/L	10.00		109	70-130				
Toluene	10.5	1.0	µg/L	10.00		105	70-130				
1,2,3-Trichlorobenzene	8.20	5.0	µg/L	10.00		82.0	70-130				
1,2,4-Trichlorobenzene	8.52	1.0	µg/L	10.00		85.2	70-130				
1,1,1-Trichloroethane	11.0	1.0	µg/L	10.00		110	70-130				
1,1,2-Trichloroethane	11.6	1.0	µg/L	10.00		116	70-130				
Trichloroethylene	10.9	1.0	µg/L	10.00		109	70-130				
Trichlorofluoromethane (Freon 11)	11.7	2.0	µg/L	10.00		117	70-130			V-20	
1,2,3-Trichloropropane	10.7	2.0	µg/L	10.00		107	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.8	1.0	µg/L	10.00		128	70-130			V-20	
1,2,4-Trimethylbenzene	9.17	1.0	µg/L	10.00		91.7	70-130				
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.00		101	70-130				
Vinyl Chloride	8.59	2.0	µg/L	10.00		85.9	40-160				†
m+p Xylene	19.3	2.0	µg/L	20.00		96.7	70-130				
o-Xylene	9.75	1.0	µg/L	10.00		97.5	70-130				
Xylenes (total)	29.1	1.0	µg/L	30.00		97.0	0-200				
Surrogate: 1,2-Dichloroethane-d4	*23.6*		µg/L	25.00		94.6	70-130				
Surrogate: Toluene-d8	*24.7*		µg/L	25.00		98.7	70-130				
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.00		101	70-130				
LCS Dup (B396264-BSD1)				Prepared: 01/07/25 Analyzed: 01/08/25							
Acetone	89.8	50	µg/L	100.0		89.8	70-160	0.918	25		†
Benzene	10.4	1.0	µg/L	10.00		104	70-130	0.963	25		
Bromochloromethane	10.8	1.0	µg/L	10.00		108	70-130	0.462	25		
Bromodichloromethane	11.2	0.50	µg/L	10.00		112	70-130	0.358	25		
Bromoform	11.3	1.0	µg/L	10.00		113	70-130	1.32	25		
Bromomethane	14.5	2.0	µg/L	10.00		145	40-160	4.60	25	V-20	†
2-Butanone (MEK)	87.9	20	µg/L	100.0		87.9	40-160	1.28	25		†
n-Butylbenzene	9.21	1.0	µg/L	10.00		92.1	70-130	0.433	25		
sec-Butylbenzene	8.74	1.0	µg/L	10.00		87.4	70-130	0.798	25		
tert-Butylbenzene	9.07	1.0	µg/L	10.00		90.7	70-130	0.878	25		
Carbon Disulfide	125	5.0	µg/L	100.0		125	70-130	0.344	25	V-20	
Carbon Tetrachloride	10.3	5.0	µg/L	10.00		103	70-130	4.76	25		
Chlorobenzene	10.1	1.0	µg/L	10.00		101	70-130	2.10	25		
Chlorodibromomethane	10.6	0.50	µg/L	10.00		106	70-130	4.50	25		
Chloroethane	10.7	2.0	µg/L	10.00		107	70-130	4.29	25		
Chloroform	11.5	2.0	µg/L	10.00		115	70-130	1.84	25		
Chloromethane	7.14	2.0	µg/L	10.00		71.4	40-160	1.27	25	V-05	†
Cyclohexane	8.31	5.0	µg/L	10.00		83.1	70-130	0.846	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.40	5.0	µg/L	10.00		84.0	70-130	0.238	25		
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.00		115	70-130	0.519	25		
1,2-Dichlorobenzene	9.31	1.0	µg/L	10.00		93.1	70-130	1.17	25		
1,3-Dichlorobenzene	9.31	1.0	µg/L	10.00		93.1	70-130	1.28	25		
1,4-Dichlorobenzene	9.15	1.0	µg/L	10.00		91.5	70-130	2.38	25		
Dichlorodifluoromethane (Freon 12)	9.38	2.0	µg/L	10.00		93.8	40-160	0.964	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 B396264 - SW-846 5030B												
LCS Dup (B396264-BSD1)				Prepared: 01/07/25 Analyzed: 01/08/25								
1,1-Dichloroethane	10.0	1.0	µg/L	10.00		100		70-130	2.72	25		
1,2-Dichloroethane	10.6	1.0	µg/L	10.00		106		70-130	1.41	25		
1,1-Dichloroethylene	9.78	1.0	µg/L	10.00		97.8		70-130	0.408	25		
cis-1,2-Dichloroethylene	9.73	1.0	µg/L	10.00		97.3		70-130	1.03	25		
trans-1,2-Dichloroethylene	9.36	1.0	µg/L	10.00		93.6		70-130	3.04	25		
1,2-Dichloropropane	9.77	1.0	µg/L	10.00		97.7		70-130	1.62	25		
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.00		103		70-130	0.970	25		
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.00		110		70-130	2.96	25		
Ethylbenzene	10.1	1.0	µg/L	10.00		101		70-130	0.997	25		
2-Hexanone (MBK)	89.2	10	µg/L	100.0		89.2		70-160	2.89	25		†
Isopropylbenzene (Cumene)	9.79	1.0	µg/L	10.00		97.9		70-130	1.34	25		
p-Isopropyltoluene (p-Cymene)	8.91	1.0	µg/L	10.00		89.1		70-130	0.112	25		
Methyl Acetate	10.9	1.0	µg/L	10.00		109		70-130	5.27	25		
Methyl tert-Butyl Ether (MTBE)	11.0	1.0	µg/L	10.00		110		70-130	0.635	25		
Methyl Cyclohexane	11.1	1.0	µg/L	10.00		111		70-130	1.79	25		
Methylene Chloride	7.99	5.0	µg/L	10.00		79.9		70-130	2.11	25		
4-Methyl-2-pentanone (MIBK)	93.2	10	µg/L	100.0		93.2		70-160	1.23	25		†
Naphthalene	8.76	2.0	µg/L	10.00		87.6		40-130	8.20	25		†
n-Propylbenzene	9.96	1.0	µg/L	10.00		99.6		70-130	0.100	25		
Styrene	10.1	1.0	µg/L	10.00		101		70-130	0.786	25		
1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.00		112		70-130	0.269	25		
Tetrachloroethylene	11.1	1.0	µg/L	10.00		111		70-130	1.72	25		
Toluene	10.3	1.0	µg/L	10.00		103		70-130	1.73	25		
1,2,3-Trichlorobenzene	9.11	5.0	µg/L	10.00		91.1		70-130	10.5	25		
1,2,4-Trichlorobenzene	9.40	1.0	µg/L	10.00		94.0		70-130	9.82	25		
1,1,1-Trichloroethane	11.1	1.0	µg/L	10.00		111		70-130	0.812	25		
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.00		110		70-130	4.94	25		
Trichloroethylene	11.0	1.0	µg/L	10.00		110		70-130	0.729	25		
Trichlorofluoromethane (Freon 11)	13.0	2.0	µg/L	10.00		130		70-130	10.5	25	V-20	
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.00		109		70-130	1.95	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.0	1.0	µg/L	10.00		130		70-130	1.55	25	V-20	
1,2,4-Trimethylbenzene	9.18	1.0	µg/L	10.00		91.8		70-130	0.109	25		
1,3,5-Trimethylbenzene	10.2	1.0	µg/L	10.00		102		70-130	0.890	25		
Vinyl Chloride	8.68	2.0	µg/L	10.00		86.8		40-160	1.04	25		†
m+p Xylene	19.7	2.0	µg/L	20.00		98.5		70-130	1.84	25		
o-Xylene	9.85	1.0	µg/L	10.00		98.5		70-130	1.02	25		
Xylenes (total)	29.6	1.0	µg/L	30.00		98.5		0-200	1.57			
Surrogate: 1,2-Dichloroethane-d4	*23.5*		µg/L	25.00		94.0		70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.00		97.5		70-130				
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.00		101		70-130				
Matrix Spike (B396264-MS1)	**Source: 25A0214-01**			Prepared: 01/07/25 Analyzed: 01/08/25								
Acetone	89.3	50	µg/L	100.0	ND	89.3		70-130				
Benzene	11.1	1.0	µg/L	10.00	ND	111		70-130				
Bromochloromethane	11.4	1.0	µg/L	10.00	ND	114		70-130				
Bromodichloromethane	11.5	0.50	µg/L	10.00	ND	115		70-130				
Bromoform	10.8	1.0	µg/L	10.00	ND	108		70-130				
Bromomethane	13.4	2.0	µg/L	10.00	ND	**134**	*	70-130			MS-15, V-20	
2-Butanone (MEK)	87.9	20	µg/L	100.0	ND	87.9		70-130				
n-Butylbenzene	9.68	1.0	µg/L	10.00	ND	96.8		70-130				
sec-Butylbenzene	9.28	1.0	µg/L	10.00	ND	92.8		70-130				
tert-Butylbenzene	9.43	1.0	µg/L	10.00	ND	94.3		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 B396264 - SW-846 5030B											
Matrix Spike (B396264-MS1)	**Source: 25A0214-01**			Prepared: 01/07/25 Analyzed: 01/08/25							
Carbon Disulfide	147	5.0	µg/L	100.0	ND	**147**	*	70-130			MS-15, V-20
Carbon Tetrachloride	11.1	5.0	µg/L	10.00	ND	111		70-130			
Chlorobenzene	9.99	1.0	µg/L	10.00	ND	99.9		70-130			
Chlorodibromomethane	10.9	0.50	µg/L	10.00	ND	109		70-130			
Chloroethane	12.5	2.0	µg/L	10.00	ND	125		70-130			
Chloroform	11.6	2.0	µg/L	10.00	ND	116		70-130			
Chloromethane	8.48	2.0	µg/L	10.00	ND	84.8		70-130			V-05
Cyclohexane	9.08	5.0	µg/L	10.00	ND	90.8		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.35	5.0	µg/L	10.00	ND	83.5		70-130			
1,2-Dibromoethane (EDB)	11.7	0.50	µg/L	10.00	ND	117		70-130			
1,2-Dichlorobenzene	9.52	1.0	µg/L	10.00	ND	95.2		70-130			
1,3-Dichlorobenzene	9.47	1.0	µg/L	10.00	ND	94.7		70-130			
1,4-Dichlorobenzene	9.40	1.0	µg/L	10.00	ND	94.0		70-130			
Dichlorodifluoromethane (Freon 12)	11.7	2.0	µg/L	10.00	ND	117		70-130			
1,1-Dichloroethane	10.4	1.0	µg/L	10.00	ND	104		70-130			
1,2-Dichloroethane	11.2	1.0	µg/L	10.00	ND	112		70-130			
1,1-Dichloroethylene	10.8	1.0	µg/L	10.00	ND	108		70-130			
cis-1,2-Dichloroethylene	9.89	1.0	µg/L	10.00	ND	98.9		70-130			
trans-1,2-Dichloroethylene	9.84	1.0	µg/L	10.00	ND	98.4		70-130			
1,2-Dichloropropane	10.0	1.0	µg/L	10.00	ND	100		70-130			
cis-1,3-Dichloropropene	10.1	0.50	µg/L	10.00	ND	101		70-130			
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.00	ND	110		70-130			
Ethylbenzene	10.5	1.0	µg/L	10.00	ND	105		70-130			
2-Hexanone (MBK)	91.9	10	µg/L	100.0	ND	91.9		70-130			
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.00	ND	101		70-130			
p-Isopropyltoluene (p-Cymene)	9.28	1.0	µg/L	10.00	ND	92.8		70-130			
Methyl Acetate	9.12	1.0	µg/L	10.00	ND	91.2		70-130			
Methyl tert-Butyl Ether (MTBE)	11.2	1.0	µg/L	10.00	ND	112		70-130			
Methyl Cyclohexane	12.2	1.0	µg/L	10.00	ND	122		70-130			
Methylene Chloride	8.34	5.0	µg/L	10.00	ND	83.4		70-130			
4-Methyl-2-pentanone (MIBK)	95.4	10	µg/L	100.0	ND	95.4		70-130			
Naphthalene	13.9	2.0	µg/L	10.00	ND	**139**	*	70-130			MS-23, R-06
n-Propylbenzene	10.3	1.0	µg/L	10.00	ND	103		70-130			
Styrene	10.1	1.0	µg/L	10.00	ND	101		70-130			
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.00	ND	109		70-130			
Tetrachloroethylene	12.1	1.0	µg/L	10.00	ND	121		70-130			
Toluene	11.1	1.0	µg/L	10.00	ND	111		70-130			
1,2,3-Trichlorobenzene	8.88	5.0	µg/L	10.00	ND	88.8		70-130			
1,2,4-Trichlorobenzene	9.28	1.0	µg/L	10.00	ND	92.8		70-130			
1,1,1-Trichloroethane	11.8	1.0	µg/L	10.00	ND	118		70-130			
1,1,2-Trichloroethane	11.3	1.0	µg/L	10.00	ND	113		70-130			
Trichloroethylene	11.8	1.0	µg/L	10.00	ND	118		70-130			
Trichlorofluoromethane (Freon 11)	13.5	2.0	µg/L	10.00	ND	**135**	*	70-130			MS-24, V-20
1,2,3-Trichloropropane	10.8	2.0	µg/L	10.00	ND	108		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.8	1.0	µg/L	10.00	ND	**138**	*	70-130			MS-15, V-20
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.00	ND	102		70-130			
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.00	ND	106		70-130			
Vinyl Chloride	10.3	2.0	µg/L	10.00	ND	103		70-130			
m+p Xylene	20.3	2.0	µg/L	20.00	ND	102		70-130			
o-Xylene	10.2	1.0	µg/L	10.00	ND	102		70-130			
Xylenes (total)	30.5	1.0	µg/L	30.00	ND	102		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 B396264 - SW-846 5030B											
Matrix Spike (B396264-MS1)	**Source: 25A0214-01**			Prepared: 01/07/25 Analyzed: 01/08/25							
Surrogate: 1,2-Dichloroethane-d4	*23.5*		µg/L	25.00		94.1		70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.00		97.8		70-130			
Surrogate: 4-Bromofluorobenzene	*25.1*		µg/L	25.00		101		70-130			
Matrix Spike Dup (B396264-MSD1)	**Source: 25A0214-01**			Prepared: 01/07/25 Analyzed: 01/08/25							
Acetone	81.2	50	µg/L	100.0	ND	81.2		70-130	9.61	30	
Benzene	10.7	1.0	µg/L	10.00	ND	107		70-130	3.12	30	
Bromochloromethane	10.7	1.0	µg/L	10.00	ND	107		70-130	6.88	30	
Bromodichloromethane	10.8	0.50	µg/L	10.00	ND	108		70-130	5.99	30	
Bromoform	10.5	1.0	µg/L	10.00	ND	105		70-130	3.10	30	
Bromomethane	14.9	2.0	µg/L	10.00	ND	**149**	*	70-130	10.3	30	MS-15, V-20
2-Butanone (MEK)	81.2	20	µg/L	100.0	ND	81.2		70-130	7.94	30	
n-Butylbenzene	9.19	1.0	µg/L	10.00	ND	91.9		70-130	5.19	30	
sec-Butylbenzene	8.95	1.0	µg/L	10.00	ND	89.5		70-130	3.62	30	
tert-Butylbenzene	9.18	1.0	µg/L	10.00	ND	91.8		70-130	2.69	30	
Carbon Disulfide	143	5.0	µg/L	100.0	ND	**143**	*	70-130	3.03	30	MS-15, V-20
Carbon Tetrachloride	10.8	5.0	µg/L	10.00	ND	108		70-130	3.20	30	
Chlorobenzene	9.71	1.0	µg/L	10.00	ND	97.1		70-130	2.84	30	
Chlorodibromomethane	10.2	0.50	µg/L	10.00	ND	102		70-130	6.34	30	
Chloroethane	11.9	2.0	µg/L	10.00	ND	119		70-130	4.59	30	
Chloroform	11.2	2.0	µg/L	10.00	ND	112		70-130	3.77	30	
Chloromethane	8.18	2.0	µg/L	10.00	ND	81.8		70-130	3.60	30	V-05
Cyclohexane	9.00	5.0	µg/L	10.00	ND	90.0		70-130	0.885	30	
1,2-Dibromo-3-chloropropane (DBCP)	7.62	5.0	µg/L	10.00	ND	76.2		70-130	9.14	30	
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.00	ND	110		70-130	6.62	30	
1,2-Dichlorobenzene	8.94	1.0	µg/L	10.00	ND	89.4		70-130	6.28	30	
1,3-Dichlorobenzene	9.00	1.0	µg/L	10.00	ND	90.0		70-130	5.09	30	
1,4-Dichlorobenzene	8.87	1.0	µg/L	10.00	ND	88.7		70-130	5.80	30	
Dichlorodifluoromethane (Freon 12)	11.3	2.0	µg/L	10.00	ND	113		70-130	3.58	30	
1,1-Dichloroethane	10.0	1.0	µg/L	10.00	ND	100		70-130	3.14	30	
1,2-Dichloroethane	10.5	1.0	µg/L	10.00	ND	105		70-130	6.34	30	
1,1-Dichloroethylene	10.6	1.0	µg/L	10.00	ND	106		70-130	1.97	30	
cis-1,2-Dichloroethylene	9.43	1.0	µg/L	10.00	ND	94.3		70-130	4.76	30	
trans-1,2-Dichloroethylene	9.69	1.0	µg/L	10.00	ND	96.9		70-130	1.54	30	
1,2-Dichloropropane	9.74	1.0	µg/L	10.00	ND	97.4		70-130	3.03	30	
cis-1,3-Dichloropropene	9.68	0.50	µg/L	10.00	ND	96.8		70-130	3.85	30	
trans-1,3-Dichloropropene	10.3	0.50	µg/L	10.00	ND	103		70-130	6.84	30	
Ethylbenzene	10.1	1.0	µg/L	10.00	ND	101		70-130	3.99	30	
2-Hexanone (MBK)	82.4	10	µg/L	100.0	ND	82.4		70-130	10.9	30	
Isopropylbenzene (Cumene)	9.86	1.0	µg/L	10.00	ND	98.6		70-130	2.80	30	
p-Isopropyltoluene (p-Cymene)	9.03	1.0	µg/L	10.00	ND	90.3		70-130	2.73	30	
Methyl Acetate	8.82	1.0	µg/L	10.00	ND	88.2		70-130	3.34	30	
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	µg/L	10.00	ND	103		70-130	8.27	30	
Methyl Cyclohexane	11.8	1.0	µg/L	10.00	ND	118		70-130	3.58	30	
Methylene Chloride	8.00	5.0	µg/L	10.00	ND	80.0		70-130	4.16	30	
4-Methyl-2-pentanone (MIBK)	86.5	10	µg/L	100.0	ND	86.5		70-130	9.83	30	
Naphthalene	8.84	2.0	µg/L	10.00	ND	88.4		70-130	**44.8**	* 30	R-06
n-Propylbenzene	10.1	1.0	µg/L	10.00	ND	101		70-130	2.25	30	
Styrene	9.93	1.0	µg/L	10.00	ND	99.3		70-130	1.90	30	
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.00	ND	104		70-130	4.52	30	
Tetrachloroethylene	11.5	1.0	µg/L	10.00	ND	115		70-130	4.90	30	
Toluene	10.6	1.0	µg/L	10.00	ND	106		70-130	3.87	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 B396264 - SW-846 5030B											
Matrix Spike Dup (B396264-MSD1)	**Source: 25A0214-01**			Prepared: 01/07/25 Analyzed: 01/08/25							
1,2,3-Trichlorobenzene	8.29	5.0	µg/L	10.00	ND	82.9		70-130	6.87	30	
1,2,4-Trichlorobenzene	8.87	1.0	µg/L	10.00	ND	88.7		70-130	4.52	30	
1,1,1-Trichloroethane	11.2	1.0	µg/L	10.00	ND	112		70-130	5.06	30	
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.00	ND	108		70-130	4.71	30	
Trichloroethylene	11.5	1.0	µg/L	10.00	ND	115		70-130	2.40	30	
Trichlorofluoromethane (Freon 11)	12.8	2.0	µg/L	10.00	ND	128		70-130	5.16	30	V-20
1,2,3-Trichloropropane	10.0	2.0	µg/L	10.00	ND	100		70-130	7.31	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.1	1.0	µg/L	10.00	ND	**131**	*	70-130	5.20	30	MS-15, V-20
1,2,4-Trimethylbenzene	9.32	1.0	µg/L	10.00	ND	93.2		70-130	9.21	30	
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.00	ND	101		70-130	4.35	30	
Vinyl Chloride	10.0	2.0	µg/L	10.00	ND	100		70-130	2.07	30	
m+p Xylene	19.9	2.0	µg/L	20.00	ND	99.3		70-130	2.24	20	
o-Xylene	9.84	1.0	µg/L	10.00	ND	98.4		70-130	3.40	30	
Xylenes (total)	29.7	1.0	µg/L	30.00	ND	99.0		0-200	2.63		
Surrogate: 1,2-Dichloroethane-d4	*23.3*		µg/L	25.00		93.2		70-130			
Surrogate: Toluene-d8	*24.1*		µg/L	25.00		96.4		70-130			
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.00		102		70-130			

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QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B396264 - SW-846 5030B										
Blank (B396264-BLK1)				Prepared: 01/07/25 Analyzed: 01/08/25						
No TICs Found	0.0		µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B396277 - SW-846 3510C										
Blank (B396277-BLK1)				Prepared: 01/07/25 Analyzed: 01/08/25						
2,3,4,6-Tetrachlorophenol	ND	20	µg/L							
Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							V-05
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							V-06
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							V-04
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-04
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							V-04
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B396277 - SW-846 3510C											
Blank (B396277-BLK1)				Prepared: 01/07/25 Analyzed: 01/08/25							
3/4-Methylphenol	ND	10	µg/L								
Naphthalene	ND	5.0	µg/L								
2-Nitroaniline	ND	10	µg/L								
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
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								V-34
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	*169*		µg/L	400.0		42.2		15-110			
Surrogate: Phenol-d6	*139*		µg/L	400.0		34.6		15-110			
Surrogate: Nitrobenzene-d5	*213*		µg/L	200.0		107		30-130			
Surrogate: 2-Fluorobiphenyl	*197*		µg/L	200.0		98.7		30-130			
Surrogate: 2,4,6-Tribromophenol	*205*		µg/L	400.0		51.4		15-110			
Surrogate: p-Terphenyl-d14	*218*		µg/L	200.0		109		30-130			
LCS (B396277-BS1)				Prepared: 01/07/25 Analyzed: 01/08/25							
2,3,4,6-Tetrachlorophenol	89.8	20	µg/L	100.0		89.8		40-140			
Atrazine	101	20	µg/L	100.0		101		40-140			
Benzaldehyde	102	10	µg/L	100.0		102		40-140			
Biphenyl	98.1	20	µg/L	100.0		98.1		40-140			
Caprolactam	31.4	10	µg/L	100.0		**31.4**	*	40-140			L-04
Acenaphthene	92.7	5.0	µg/L	100.0		92.7		40-140			
Acenaphthylene	104	5.0	µg/L	100.0		104		40-140			
Acetophenone	83.2	10	µg/L	100.0		83.2		40-140			
Aniline	78.6	20	µg/L	100.0		78.6		40-140			V-05
Anthracene	99.7	5.0	µg/L	100.0		99.7		40-140			
Benzo(a)anthracene	96.5	5.0	µg/L	100.0		96.5		40-140			
Benzo(a)pyrene	98.1	5.0	µg/L	100.0		98.1		40-140			
Benzo(b)fluoranthene	99.8	5.0	µg/L	100.0		99.8		40-140			
Benzo(g,h,i)perylene	113	5.0	µg/L	100.0		113		40-140			V-06
Benzo(k)fluoranthene	101	5.0	µg/L	100.0		101		40-140			
Bis(2-chloroethoxy)methane	93.7	10	µg/L	100.0		93.7		40-140			
Bis(2-chloroethyl)ether	95.2	10	µg/L	100.0		95.2		40-140			
2,2'-oxybis(1-Chloropropane)	96.7	10	µg/L	100.0		96.7		40-140			
Bis(2-Ethylhexyl)phthalate	86.7	10	µg/L	100.0		86.7		40-140			
4-Bromophenylphenylether	91.5	10	µg/L	100.0		91.5		40-140			
Butylbenzylphthalate	98.4	10	µg/L	100.0		98.4		40-140			
Carbazole	100	10	µg/L	100.0		100		40-140			
4-Chloroaniline	86.2	10	µg/L	100.0		86.2		40-140			
4-Chloro-3-methylphenol	79.3	10	µg/L	100.0		79.3		30-130			
2-Chloronaphthalene	88.8	10	µg/L	100.0		88.8		40-140			
2-Chlorophenol	85.8	10	µg/L	100.0		85.8		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 B396277 - SW-846 3510C											
LCS (B396277-BS1)				Prepared: 01/07/25 Analyzed: 01/08/25							
4-Chlorophenylphenylether	89.3	10	µg/L	100.0		89.3	40-140				
Chrysene	103	5.0	µg/L	100.0		103	40-140				
Dibenz(a,h)anthracene	104	5.0	µg/L	100.0		104	40-140			V-04	
Dibenzofuran	95.7	5.0	µg/L	100.0		95.7	40-140				
Di-n-butylphthalate	85.5	10	µg/L	100.0		85.5	40-140				
3,3-Dichlorobenzidine	98.4	10	µg/L	100.0		98.4	40-140				
2,4-Dichlorophenol	85.1	10	µg/L	100.0		85.1	30-130				
Diethylphthalate	81.7	10	µg/L	100.0		81.7	40-140				
2,4-Dimethylphenol	86.8	10	µg/L	100.0		86.8	30-130				
Dimethylphthalate	89.6	10	µg/L	100.0		89.6	40-140				
4,6-Dinitro-2-methylphenol	71.0	20	µg/L	100.0		71.0	30-130				
2,4-Dinitrophenol	38.7	10	µg/L	100.0		38.7	30-130			V-04	
2,4-Dinitrotoluene	89.5	10	µg/L	100.0		89.5	40-140				
2,6-Dinitrotoluene	94.2	10	µg/L	100.0		94.2	40-140				
Di-n-octylphthalate	79.4	10	µg/L	100.0		79.4	40-140			V-04	
Fluoranthene	94.5	5.0	µg/L	100.0		94.5	40-140				
Fluorene	93.5	5.0	µg/L	100.0		93.5	40-140				
Hexachlorobenzene	93.6	10	µg/L	100.0		93.6	40-140				
Hexachlorobutadiene	85.4	10	µg/L	100.0		85.4	40-140				
Hexachlorocyclopentadiene	103	10	µg/L	100.0		103	30-140				†
Hexachloroethane	91.5	10	µg/L	100.0		91.5	40-140				
Indeno(1,2,3-cd)pyrene	110	5.0	µg/L	100.0		110	40-140			V-04	
Isophorone	92.7	10	µg/L	100.0		92.7	40-140				
1-Methylnaphthalene	83.9	5.0	µg/L	100.0		83.9	40-140				
2-Methylnaphthalene	81.9	5.0	µg/L	100.0		81.9	40-140				
2-Methylphenol	75.8	10	µg/L	100.0		75.8	30-130				
3/4-Methylphenol	93.9	10	µg/L	100.0		93.9	30-130				
Naphthalene	92.6	5.0	µg/L	100.0		92.6	40-140				
2-Nitroaniline	108	10	µg/L	100.0		108	40-140				
3-Nitroaniline	95.2	10	µg/L	100.0		95.2	40-140				
4-Nitroaniline	92.9	10	µg/L	100.0		92.9	40-140				
Nitrobenzene	94.6	10	µg/L	100.0		94.6	40-140				
2-Nitrophenol	83.2	10	µg/L	100.0		83.2	30-130				
4-Nitrophenol	39.3	10	µg/L	100.0		39.3	10-130				†
N-Nitrosodiphenylamine/Diphenylamine	97.5	10	µg/L	100.0		97.5	40-140				
N-Nitrosodi-n-propylamine	78.6	10	µg/L	100.0		78.6	40-140				
Pentachlorophenol	73.8	10	µg/L	100.0		73.8	30-130				
Phenanthrene	98.9	5.0	µg/L	100.0		98.9	40-140				
Phenol	46.9	10	µg/L	100.0		46.9	20-130				†
Pyrene	105	5.0	µg/L	100.0		105	40-140				
Pyridine	33.7	20	µg/L	100.0		33.7	10-140			V-34	†
1,2,4,5-Tetrachlorobenzene	98.2	10	µg/L	100.0		98.2	40-140				
2,4,5-Trichlorophenol	92.6	10	µg/L	100.0		92.6	30-130				
2,4,6-Trichlorophenol	90.5	10	µg/L	100.0		90.5	30-130				
Surrogate: 2-Fluorophenol	*277*		µg/L	400.0		69.2	15-110				
Surrogate: Phenol-d6	*191*		µg/L	400.0		47.8	15-110				
Surrogate: Nitrobenzene-d5	*209*		µg/L	200.0		104	30-130				
Surrogate: 2-Fluorobiphenyl	*193*		µg/L	200.0		96.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*349*		µg/L	400.0		87.3	15-110				
Surrogate: p-Terphenyl-d14	*208*		µg/L	200.0		104	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 B396277 - SW-846 3510C												
LCS Dup (B396277-BSD1)				Prepared: 01/07/25 Analyzed: 01/08/25								
2,3,4,6-Tetrachlorophenol	91.8	20	µg/L	100.0		91.8		40-140	2.16	20		
Atrazine	98.6	20	µg/L	100.0		98.6		40-140	2.84	20		
Benzaldehyde	95.5	10	µg/L	100.0		95.5		40-140	6.65	20		
Biphenyl	94.2	20	µg/L	100.0		94.2		40-140	4.12	20		
Caprolactam	30.4	10	µg/L	100.0		**30.4**	*	40-140	3.11	20	L-04	
Acenaphthene	86.9	5.0	µg/L	100.0		86.9		40-140	6.51	20		
Acenaphthylene	96.9	5.0	µg/L	100.0		96.9		40-140	7.02	20		
Acetophenone	81.0	10	µg/L	100.0		81.0		40-140	2.70	20		
Aniline	76.8	20	µg/L	100.0		76.8		40-140	2.42	50	V-05	‡
Anthracene	93.1	5.0	µg/L	100.0		93.1		40-140	6.85	20		
Benzo(a)anthracene	90.6	5.0	µg/L	100.0		90.6		40-140	6.26	20		
Benzo(a)pyrene	93.4	5.0	µg/L	100.0		93.4		40-140	4.92	20		
Benzo(b)fluoranthene	93.3	5.0	µg/L	100.0		93.3		40-140	6.77	20		
Benzo(g,h,i)perylene	104	5.0	µg/L	100.0		104		40-140	8.70	20	V-06	
Benzo(k)fluoranthene	95.9	5.0	µg/L	100.0		95.9		40-140	4.90	20		
Bis(2-chloroethoxy)methane	92.6	10	µg/L	100.0		92.6		40-140	1.14	20		
Bis(2-chloroethyl)ether	93.7	10	µg/L	100.0		93.7		40-140	1.58	20		
2,2'-oxybis(1-Chloropropane)	95.3	10	µg/L	100.0		95.3		40-140	1.48	20		
Bis(2-Ethylhexyl)phthalate	83.3	10	µg/L	100.0		83.3		40-140	3.93	20		
4-Bromophenylphenylether	88.5	10	µg/L	100.0		88.5		40-140	3.37	20		
Butylbenzylphthalate	91.9	10	µg/L	100.0		91.9		40-140	6.89	20		
Carbazole	95.4	10	µg/L	100.0		95.4		40-140	4.72	20		
4-Chloroaniline	84.8	10	µg/L	100.0		84.8		40-140	1.57	20		
4-Chloro-3-methylphenol	74.9	10	µg/L	100.0		74.9		30-130	5.69	20		
2-Chloronaphthalene	83.5	10	µg/L	100.0		83.5		40-140	6.16	20		
2-Chlorophenol	82.6	10	µg/L	100.0		82.6		30-130	3.78	20		
4-Chlorophenylphenylether	83.2	10	µg/L	100.0		83.2		40-140	6.98	20		
Chrysene	95.8	5.0	µg/L	100.0		95.8		40-140	7.45	20		
Dibenz(a,h)anthracene	97.5	5.0	µg/L	100.0		97.5		40-140	6.57	20	V-04	
Dibenzofuran	92.9	5.0	µg/L	100.0		92.9		40-140	2.95	20		
Di-n-butylphthalate	81.1	10	µg/L	100.0		81.1		40-140	5.38	20		
3,3-Dichlorobenzidine	94.5	10	µg/L	100.0		94.5		40-140	4.02	20		
2,4-Dichlorophenol	82.2	10	µg/L	100.0		82.2		30-130	3.46	20		
Diethylphthalate	78.9	10	µg/L	100.0		78.9		40-140	3.50	20		
2,4-Dimethylphenol	83.2	10	µg/L	100.0		83.2		30-130	4.29	20		
Dimethylphthalate	84.6	10	µg/L	100.0		84.6		40-140	5.67	50		‡
4,6-Dinitro-2-methylphenol	71.8	20	µg/L	100.0		71.8		30-130	1.11	50		‡
2,4-Dinitrophenol	44.7	10	µg/L	100.0		44.7		30-130	14.4	50	V-04	‡
2,4-Dinitrotoluene	82.8	10	µg/L	100.0		82.8		40-140	7.73	20		
2,6-Dinitrotoluene	89.1	10	µg/L	100.0		89.1		40-140	5.62	20		
Di-n-octylphthalate	79.6	10	µg/L	100.0		79.6		40-140	0.302	20	V-04	
Fluoranthene	89.3	5.0	µg/L	100.0		89.3		40-140	5.66	20		
Fluorene	88.9	5.0	µg/L	100.0		88.9		40-140	5.09	20		
Hexachlorobenzene	89.1	10	µg/L	100.0		89.1		40-140	4.93	20		
Hexachlorobutadiene	87.2	10	µg/L	100.0		87.2		40-140	2.12	20		
Hexachlorocyclopentadiene	103	10	µg/L	100.0		103		30-140	0.107	50		† ‡
Hexachloroethane	88.6	10	µg/L	100.0		88.6		40-140	3.22	50		‡
Indeno(1,2,3-cd)pyrene	101	5.0	µg/L	100.0		101		40-140	8.57	50	V-04	‡
Isophorone	89.2	10	µg/L	100.0		89.2		40-140	3.75	20		
1-Methylnaphthalene	79.2	5.0	µg/L	100.0		79.2		40-140	5.86	20		
2-Methylnaphthalene	78.2	5.0	µg/L	100.0		78.2		40-140	4.61	20		
2-Methylphenol	72.9	10	µg/L	100.0		72.9		30-130	3.87	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 B396277 - SW-846 3510C											
LCS Dup (B396277-BSD1)				Prepared: 01/07/25 Analyzed: 01/08/25							
3/4-Methylphenol	90.1	10	µg/L	100.0		90.1	30-130	4.21	20		
Naphthalene	90.0	5.0	µg/L	100.0		90.0	40-140	2.84	20		
2-Nitroaniline	106	10	µg/L	100.0		106	40-140	1.10	20		
3-Nitroaniline	90.0	10	µg/L	100.0		90.0	40-140	5.69	20		
4-Nitroaniline	87.0	10	µg/L	100.0		87.0	40-140	6.64	20		
Nitrobenzene	93.8	10	µg/L	100.0		93.8	40-140	0.902	20		
2-Nitrophenol	83.0	10	µg/L	100.0		83.0	30-130	0.229	20		
4-Nitrophenol	38.8	10	µg/L	100.0		38.8	10-130	1.15	50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	92.6	10	µg/L	100.0		92.6	40-140	5.12	20		
N-Nitrosodi-n-propylamine	78.3	10	µg/L	100.0		78.3	40-140	0.421	20		
Pentachlorophenol	72.0	10	µg/L	100.0		72.0	30-130	2.51	50		‡
Phenanthrene	93.4	5.0	µg/L	100.0		93.4	40-140	5.73	20		
Phenol	43.6	10	µg/L	100.0		43.6	20-130	7.33	20		†
Pyrene	97.7	5.0	µg/L	100.0		97.7	40-140	7.00	20		
Pyridine	31.5	20	µg/L	100.0		31.5	10-140	6.73	50	V-34	† ‡
1,2,4,5-Tetrachlorobenzene	93.9	10	µg/L	100.0		93.9	40-140	4.45	20		
2,4,5-Trichlorophenol	86.7	10	µg/L	100.0		86.7	30-130	6.57	20		
2,4,6-Trichlorophenol	86.7	10	µg/L	100.0		86.7	30-130	4.22	50		‡
Surrogate: 2-Fluorophenol	*260*		µg/L	400.0		65.0	15-110				
Surrogate: Phenol-d6	*179*		µg/L	400.0		44.7	15-110				
Surrogate: Nitrobenzene-d5	*200*		µg/L	200.0		100	30-130				
Surrogate: 2-Fluorobiphenyl	*177*		µg/L	200.0		88.3	30-130				
Surrogate: 2,4,6-Tribromophenol	*324*		µg/L	400.0		81.1	15-110				
Surrogate: p-Terphenyl-d14	*192*		µg/L	200.0		95.9	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 B396269 - SW-846 3510C										
Blank (B396269-BLK1)				Prepared: 01/07/25 Analyzed: 01/08/25						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*3.06*		µg/L	10.00		30.6	15-110			
LCS (B396269-BS1)				Prepared: 01/07/25 Analyzed: 01/08/25						
1,4-Dioxane	10.6	0.20	µg/L	10.00		106	40-140			
Surrogate: 1,4-Dioxane-d8	*3.38*		µg/L	10.00		33.8	15-110			
LCS Dup (B396269-BSD1)				Prepared: 01/07/25 Analyzed: 01/08/25						
1,4-Dioxane	11.6	0.20	µg/L	10.00		116	40-140	8.95	30	
Surrogate: 1,4-Dioxane-d8	*3.09*		µg/L	10.00		30.9	15-110			
Batch B396467 - SW-846 3510C										
Blank (B396467-BLK1)				Prepared: 01/09/25 Analyzed: 01/14/25						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.56*		µg/L	10.00		25.6	15-110			
LCS (B396467-BS1)				Prepared: 01/09/25 Analyzed: 01/14/25						
1,4-Dioxane	10.3	0.20	µg/L	10.00		103	40-140			
Surrogate: 1,4-Dioxane-d8	*3.23*		µg/L	10.00		32.3	15-110			
LCS Dup (B396467-BSD1)				Prepared: 01/09/25 Analyzed: 01/14/25						
1,4-Dioxane	11.7	0.20	µg/L	10.00		117	40-140	12.3	30	
Surrogate: 1,4-Dioxane-d8	*2.72*		µg/L	10.00		27.2	15-110			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B396952 - EPA 1633										
Blank (B396952-BLK1)				Prepared: 01/16/25 Analyzed: 01/17/25						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.1	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	*71.9*		ng/L	78.49		91.6	5-130			

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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 B396952 - EPA 1633										
Blank (B396952-BLK1)				Prepared: 01/16/25 Analyzed: 01/17/25						
Surrogate: 13C5-PFPeA	*34.7*		ng/L	39.25		88.5	40-130			
Surrogate: 13C5-PFHxA	*17.9*		ng/L	19.62		91.2	40-130			
Surrogate: 13C4-PFHpA	*18.0*		ng/L	19.62		91.8	40-130			
Surrogate: 13C8-PFOA	*18.3*		ng/L	19.62		93.3	40-130			
Surrogate: 13C9-PFNA	*8.74*		ng/L	9.812		89.1	40-130			
Surrogate: 13C6-PFDA	*8.78*		ng/L	9.812		89.5	40-130			
Surrogate: 13C7-PFUnA	*9.29*		ng/L	9.812		94.7	30-130			
Surrogate: 13C2-PFDoA	*8.35*		ng/L	9.812		85.1	10-130			
Surrogate: 13C2-PFTeDA	*8.27*		ng/L	9.812		84.3	10-130			
Surrogate: 13C3-PFBS	*18.0*		ng/L	19.62		91.8	40-135			
Surrogate: 13C3-PFHxS	*16.7*		ng/L	19.62		85.3	40-130			
Surrogate: 13C8-PFOS	*17.8*		ng/L	19.62		90.5	40-130			
Surrogate: 13C2-4:2FTS	*38.9*		ng/L	39.25		99.0	40-200			
Surrogate: 13C2-6:2FTS	*38.3*		ng/L	39.25		97.6	40-200			
Surrogate: 13C2-8:2FTS	*34.6*		ng/L	39.25		88.1	40-300			
Surrogate: 13C8-PFOSA	*15.5*		ng/L	19.62		78.9	40-130			
Surrogate: D3-NMeFOSA	*13.1*		ng/L	19.62		66.9	10-130			
Surrogate: D5-NEtFOSA	*14.3*		ng/L	19.62		72.9	10-130			
Surrogate: D3-NMeFOSAA	*35.2*		ng/L	39.25		89.8	40-170			
Surrogate: D5-NEtFOSAA	*43.8*		ng/L	39.25		112	25-135			
Surrogate: D7-NMeFOSE	*154*		ng/L	196.2		78.4	10-130			
Surrogate: D9-NEtFOSE	*152*		ng/L	196.2		77.2	10-130			
Surrogate: 13C3-HFPO-DA	*70.6*		ng/L	78.49		90.0	40-130			
Batch B397453 - EPA 1633										
Blank (B397453-BLK1)				Prepared & Analyzed: 01/27/25						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.2	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							

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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 B397453 - EPA 1633										
Blank (B397453-BLK1)				Prepared & Analyzed: 01/27/25						
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	40	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	40	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.2	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.2	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.2	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.2	ng/L							
Surrogate: 13C4-PFBA	*70.0*		ng/L	79.09		88.6	5-130			
Surrogate: 13C5-PFPeA	*35.1*		ng/L	39.55		88.7	40-130			
Surrogate: 13C5-PFHxA	*17.2*		ng/L	19.77		87.2	40-130			
Surrogate: 13C4-PFHpA	*15.6*		ng/L	19.77		78.9	40-130			
Surrogate: 13C8-PFOA	*18.9*		ng/L	19.77		95.6	40-130			
Surrogate: 13C9-PFNA	*8.32*		ng/L	9.886		84.2	40-130			
Surrogate: 13C6-PFDA	*8.13*		ng/L	9.886		82.3	40-130			
Surrogate: 13C7-PFUnA	*8.04*		ng/L	9.886		81.4	30-130			
Surrogate: 13C2-PFDoA	*7.23*		ng/L	9.886		73.1	10-130			
Surrogate: 13C2-PFTeDA	*6.87*		ng/L	9.886		69.5	10-130			
Surrogate: 13C3-PFBS	*14.2*		ng/L	19.77		71.6	40-135			
Surrogate: 13C3-PFHxS	*15.2*		ng/L	19.77		76.9	40-130			
Surrogate: 13C8-PFOS	*16.2*		ng/L	19.77		81.8	40-130			
Surrogate: 13C2-4:2FTS	*32.9*		ng/L	39.55		83.1	40-200			
Surrogate: 13C2-6:2FTS	*35.1*		ng/L	39.55		88.7	40-200			
Surrogate: 13C2-8:2FTS	*30.4*		ng/L	39.55		76.8	40-300			
Surrogate: 13C8-PFOSA	*14.4*		ng/L	19.77		72.7	40-130			
Surrogate: D3-NMeFOSA	*13.0*		ng/L	19.77		65.6	10-130			
Surrogate: D5-NEtFOSA	*12.8*		ng/L	19.77		64.8	10-130			
Surrogate: D3-NMeFOSAA	*27.1*		ng/L	39.55		68.5	40-170			
Surrogate: D5-NEtFOSAA	*28.4*		ng/L	39.55		71.8	25-135			
Surrogate: D7-NMeFOSE	*134*		ng/L	197.7		67.8	10-130			
Surrogate: D9-NEtFOSE	*131*		ng/L	197.7		66.2	10-130			
Surrogate: 13C3-HFPO-DA	*74.7*		ng/L	79.09		94.4	40-130			
LCS (B397453-BS1)				Prepared: 01/27/25 Analyzed: 01/28/25						
Perfluorobutanoic acid (PFBA)	80.4	6.3	ng/L	78.77		102	70-140			

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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 B397453 - EPA 1633										
LCS (B397453-BS1)				Prepared: 01/27/25 Analyzed: 01/28/25						
Perfluoropentanoic acid (PFPeA)	42.4	3.2	ng/L	39.39		108	65-135			
Perfluorohexanoic acid (PFHxA)	21.1	1.6	ng/L	19.69		107	70-145			
Perfluoroheptanoic acid (PFHpA)	20.5	1.6	ng/L	19.69		104	70-150			
Perfluorooctanoic acid (PFOA)	19.6	1.6	ng/L	19.69		99.4	70-150			
Perfluorononanoic acid (PFNA)	20.7	1.6	ng/L	19.69		105	70-150			
Perfluorodecanoic acid (PFDA)	21.0	1.6	ng/L	19.69		107	70-140			
Perfluoroundecanoic acid (PFUnA)	22.0	1.6	ng/L	19.69		112	70-145			
Perfluorododecanoic acid (PFDoA)	21.2	1.6	ng/L	19.69		108	70-140			
Perfluorotridecanoic acid (PFTrDA)	21.4	1.6	ng/L	19.69		109	65-140			
Perfluorotetradecanoic acid (PFTeDA)	23.1	1.6	ng/L	19.69		117	60-140			
Perfluorobutanesulfonic acid (PFBS)	18.7	1.6	ng/L	17.49		107	60-145			
Perfluoropentanesulfonic acid (PFPeS)	18.6	1.6	ng/L	18.51		100	65-140			
Perfluorohexanesulfonic acid (PFHxS)	16.3	1.6	ng/L	17.96		90.8	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	19.5	1.6	ng/L	18.75		104	70-150			
Perfluorooctanesulfonic acid (PFOS)	18.3	1.6	ng/L	18.28		99.9	55-150			
Perfluorononanesulfonic acid (PFNS)	20.3	1.6	ng/L	18.91		107	65-145			
Perfluorodecanesulfonic acid (PFDS)	18.9	1.6	ng/L	18.98		99.6	60-145			
Perfluorododecanesulfonic acid (PFDoS)	16.4	1.6	ng/L	19.06		86.2	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	82.2	6.3	ng/L	73.81		111	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	87.6	6.3	ng/L	74.91		117	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	80.1	6.3	ng/L	75.62		106	60-150			
Perfluorooctanesulfonamide (PFOSA)	20.8	1.6	ng/L	19.69		106	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	20.2	1.6	ng/L	19.69		103	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	22.1	1.6	ng/L	19.69		112	65-145			
N-MeFOSAA (NMeFOSAA)	17.4	1.6	ng/L	19.69		88.4	50-140			
N-EtFOSAA (NEtFOSAA)	19.6	1.6	ng/L	19.69		99.3	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	212	16	ng/L	196.9		108	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	211	16	ng/L	196.9		107	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	83.0	6.3	ng/L	78.77		105	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	84.4	6.3	ng/L	74.44		113	65-145			
9Cl-PF3ONS (F53B Minor)	79.4	6.3	ng/L	73.50		108	70-155			
11Cl-PF3OUdS (F53B Major)	76.0	6.3	ng/L	73.58		103	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	81.8	7.9	ng/L	98.47		83.1	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	430	39	ng/L	492.3		87.4	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	447	39	ng/L	492.3		90.7	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	37.9	3.2	ng/L	35.13		108	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	41.3	3.2	ng/L	39.39		105	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	43.3	3.2	ng/L	39.39		110	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	47.0	3.2	ng/L	39.39		119	50-150			
Surrogate: 13C4-PFBA	*63.4*		ng/L	78.77		80.5	5-130			
Surrogate: 13C5-PFPeA	*30.6*		ng/L	39.39		77.7	40-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B397453 - EPA 1633										
LCS (B397453-BS1)				Prepared: 01/27/25 Analyzed: 01/28/25						
Surrogate: 13C5-PFHxA	*15.0*		ng/L	19.69		76.4	40-130			
Surrogate: 13C4-PFHpA	*13.8*		ng/L	19.69		69.9	40-130			
Surrogate: 13C8-PFOA	*16.7*		ng/L	19.69		85.0	40-130			
Surrogate: 13C9-PFNA	*7.52*		ng/L	9.847		76.4	40-130			
Surrogate: 13C6-PFDA	*7.34*		ng/L	9.847		74.5	40-130			
Surrogate: 13C7-PFUnA	*7.05*		ng/L	9.847		71.6	30-130			
Surrogate: 13C2-PFDoA	*6.58*		ng/L	9.847		66.8	10-130			
Surrogate: 13C2-PFTeDA	*6.03*		ng/L	9.847		61.2	10-130			
Surrogate: 13C3-PFBS	*11.9*		ng/L	19.69		60.7	40-135			
Surrogate: 13C3-PFHxS	*13.8*		ng/L	19.69		70.2	40-130			
Surrogate: 13C8-PFOS	*14.0*		ng/L	19.69		71.3	40-130			
Surrogate: 13C2-4:2FTS	*28.9*		ng/L	39.39		73.5	40-200			
Surrogate: 13C2-6:2FTS	*27.8*		ng/L	39.39		70.7	40-200			
Surrogate: 13C2-8:2FTS	*28.0*		ng/L	39.39		71.1	40-300			
Surrogate: 13C8-PFOSA	*12.8*		ng/L	19.69		64.9	40-130			
Surrogate: D3-NMeFOSA	*11.8*		ng/L	19.69		59.8	10-130			
Surrogate: D5-NEtFOSA	*11.1*		ng/L	19.69		56.2	10-130			
Surrogate: D3-NMeFOSAA	*26.2*		ng/L	39.39		66.6	40-170			
Surrogate: D5-NEtFOSAA	*24.5*		ng/L	39.39		62.2	25-135			
Surrogate: D7-NMeFOSE	*118*		ng/L	196.9		60.1	10-130			
Surrogate: D9-NEtFOSE	*115*		ng/L	196.9		58.6	10-130			
Surrogate: 13C3-HFPO-DA	*66.8*		ng/L	78.77		84.8	40-130			
MRL Check (B397453-MRL1)				Prepared & Analyzed: 01/27/25						
Perfluorobutanoic acid (PFBA)	11.0	6.3	ng/L	12.57		87.1	70-140			
Perfluoropentanoic acid (PFPeA)	5.72	3.1	ng/L	6.286		90.9	65-135			
Perfluorohexanoic acid (PFHxA)	2.78	1.6	ng/L	3.143		88.3	70-145			
Perfluoroheptanoic acid (PFHpA)	2.63	1.6	ng/L	3.143		83.7	70-150			
Perfluorooctanoic acid (PFOA)	2.76	1.6	ng/L	3.143		87.8	70-150			
Perfluorononanoic acid (PFNA)	2.78	1.6	ng/L	3.143		88.4	70-150			
Perfluorodecanoic acid (PFDA)	2.72	1.6	ng/L	3.143		86.6	70-140			
Perfluoroundecanoic acid (PFUnA)	2.78	1.6	ng/L	3.143		88.3	70-145			
Perfluorododecanoic acid (PFDoA)	2.82	1.6	ng/L	3.143		89.6	70-140			
Perfluorotridecanoic acid (PFTrDA)	2.84	1.6	ng/L	3.143		90.2	65-140			
Perfluorotetradecanoic acid (PFTeDA)	3.17	1.6	ng/L	3.143		101	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.47	1.6	ng/L	2.791		88.6	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.63	1.6	ng/L	2.954		89.1	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.50	1.6	ng/L	2.866		87.3	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	2.42	1.6	ng/L	2.992		81.0	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.84	1.6	ng/L	2.917		97.5	55-150			
Perfluorononanesulfonic acid (PFNS)	2.45	1.6	ng/L	3.017		81.1	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.52	1.6	ng/L	3.030		83.3	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.06	1.6	ng/L	3.042		67.8	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	10.9	6.3	ng/L	11.78		92.6	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	11.3	6.3	ng/L	11.96		94.2	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	11.0	6.3	ng/L	12.07		91.5	60-150			
Perfluorooctanesulfonamide (PFOSA)	2.77	1.6	ng/L	3.143		88.2	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.88	1.6	ng/L	3.143		91.5	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	3.18	1.6	ng/L	3.143		101	65-145			

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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 B397453 - EPA 1633										
MRL Check (B397453-MRL1)				Prepared & Analyzed: 01/27/25						
N-MeFOSAA (NMeFOSAA)	2.14	1.6	ng/L	3.143		68.2	50-140			
N-EtFOSAA (NEtFOSAA)	2.57	1.6	ng/L	3.143		81.8	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	27.9	16	ng/L	31.43		88.9	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	28.2	16	ng/L	31.43		89.8	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	11.9	6.3	ng/L	12.57		95.0	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	11.6	6.3	ng/L	11.88		97.4	65-145			
9Cl-PF3ONS (F53B Minor)	10.6	6.3	ng/L	11.73		90.4	70-155			
11Cl-PF3OUdS (F53B Major)	9.63	6.3	ng/L	11.74		82.0	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	11.9	7.9	ng/L	15.71		75.6	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	58.3	39	ng/L	78.57		74.2	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	61.3	39	ng/L	78.57		78.1	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.89	3.1	ng/L	5.607		87.2	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.54	3.1	ng/L	6.286		88.2	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.56	3.1	ng/L	6.286		88.5	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	6.87	3.1	ng/L	6.286		109	50-150			
Surrogate: 13C4-PFBA	*65.5*		ng/L	78.57		83.4	5-130			
Surrogate: 13C5-PFPeA	*32.8*		ng/L	39.29		83.5	40-130			
Surrogate: 13C5-PFHxA	*16.9*		ng/L	19.64		86.0	40-130			
Surrogate: 13C4-PFHpA	*15.0*		ng/L	19.64		76.5	40-130			
Surrogate: 13C8-PFOA	*17.4*		ng/L	19.64		88.5	40-130			
Surrogate: 13C9-PFNA	*7.94*		ng/L	9.822		80.9	40-130			
Surrogate: 13C6-PFDA	*7.56*		ng/L	9.822		77.0	40-130			
Surrogate: 13C7-PFUnA	*7.43*		ng/L	9.822		75.6	30-130			
Surrogate: 13C2-PFDoA	*6.48*		ng/L	9.822		65.9	10-130			
Surrogate: 13C2-PFTeDA	*5.96*		ng/L	9.822		60.7	10-130			
Surrogate: 13C3-PFBS	*13.4*		ng/L	19.64		68.1	40-135			
Surrogate: 13C3-PFHxS	*14.4*		ng/L	19.64		73.5	40-130			
Surrogate: 13C8-PFOS	*14.3*		ng/L	19.64		72.7	40-130			
Surrogate: 13C2-4:2FTS	*31.4*		ng/L	39.29		80.0	40-200			
Surrogate: 13C2-6:2FTS	*33.8*		ng/L	39.29		86.0	40-200			
Surrogate: 13C2-8:2FTS	*31.4*		ng/L	39.29		80.0	40-300			
Surrogate: 13C8-PFOSA	*14.9*		ng/L	19.64		75.9	40-130			
Surrogate: D3-NMeFOSA	*11.8*		ng/L	19.64		60.0	10-130			
Surrogate: D5-NEtFOSA	*11.1*		ng/L	19.64		56.7	10-130			
Surrogate: D3-NMeFOSAA	*25.3*		ng/L	39.29		64.5	40-170			
Surrogate: D5-NEtFOSAA	*24.3*		ng/L	39.29		61.9	25-135			
Surrogate: D7-NMeFOSE	*130*		ng/L	196.4		66.0	10-130			
Surrogate: D9-NEtFOSE	*123*		ng/L	196.4		62.4	10-130			
Surrogate: 13C3-HFPO-DA	*73.3*		ng/L	78.57		93.3	40-130			

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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.

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.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PF-22	Qualifier ion ratio >150% of associated calibration. Detection is suspect.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
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-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Pace Analytical Services, LLC - East Longmeadow, Ma

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

CERTIFICATIONS

Certified Analyses included in this Report

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

Pace Analytical Services, LLC - East Longmeadow, Ma

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
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
1,1,1-Trichloroethane	CT,ME,NH,VA,NY

Pace Analytical Services, LLC - East Longmeadow, Ma

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
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
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA

Pace Analytical Services, LLC - East Longmeadow, Ma

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
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

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

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2026
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NC	North Carolina Div. of Water Quality	652	12/31/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025

Chain of Custody / Analysis Report

RAMBOLL

Page 1 of 1

Sampler(s): Brian Dunn
(Signature)

25A0214

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 Q1 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	0	2		0	0	0	3	8	0	4		0	0	0				
										8260d: DER TCLVOCs	8270: DER TCL SVORVTs	6010D TAL Metals +Mercury (7470A)		2570D: TDS	2540D: TSS	7196A: hexavalent chromium	351.2: TKN	9060A: TOC	300.0: Anions Cl,F,SO4,CN	9012B: Cyanide		1633: PFAS	TSS(PFAS 1633)	8270D SIM: 1,4-dioxane				
1	PD-CP-00-010625	PD	1/6/2025	1000	N	WG	10	G	N	X	X											X	X	X				
2	PD-CP-01-010625	PD	1/6/2025	"	FD	WG	10	G	N	X	X											X	X	X				
3	PD-CP-MS-010625	PD	1/6/2025	"	MS	WG	3	G	N	X																		
4	PD-CP-MSD-010625	PD	1/6/2025	"	MSD	WG	3	G	N	X																		
5	ASF-CP-00-010625	N	1/6/2025	(1937)	N	WG	5	G	N													X	X	X				
6	ASF-CP-01-010625	FD	1/6/2025	"	FD	WG	5	G	N													X	X	X				
7	TB-010625		1/6/2025		TB	WQ	2		N	X																		
8																												
9																												
10																												
11																												
12																												
13																												
14																												

Special Instructions: *OU-5 January 2025 Monthly System Samples*

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

Relinquished by: Brian J. Dunn	Date: 1/6/25	Courier Name: FedEx PACE	Date: 01.06.25	Condition:
Of: GES, Inc.	Time: 1545	Tracking #:	Time: 17:45	Other comments or notes regarding condition of samples as received:
Relinquished by: RMD	Date: 1/6/25	Courier Name: PACE	Date: 01.06.25	Custody Seals Intact? *(if so, indicate the #, date, and time of the seal)*
Of: P.LI	Time: 18.00	Tracking #:	Time: 20:45	
Courier Name: FedEx	Date:	Received By: RMD	Date: 1/6/25	Cooler Temperature: 3.0 (W)
Tracking #:	Time:	Of: P.LI	Time: 15:50	

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

1/7/25 0130

1/6/25 0930

0.6 1/7/25 0230
1.0

1 of 2 Coolers

Table of Contents

Chain of Custody / Analysis Report

RAMBOLL

Sampler(s): (Signature) Brian Dunn

25A0214

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 Q1 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)	Preservatives: (see key at bottom) 1	0	2		0	0	0	3	8	0	4		0	0	0					
										8260d: DER TCLVOCs	8270: DER TCL SVORVTs	6010D TAL Metals +Mercury (7470A)		2570D: TDS	2540D: TSS	7196A: hexavalent chromium	351.2: TKN	9060A: TOC	300.0: Anions Cl,F,SO4,CN	9012B: Cyanide		1633: PFAS	TSS(PFAS 1633)	8270D SIM: 1,4-dioxane					
1	PD-CP-00-010625	PD	1/6/2025	1000	N	WG	10	G	N	X	X											X	X	X					
2	PD-CP-01-010625	PD	1/6/2025	↓	FD	WG	10	G	N	X	X											X	X	X					
3	PD-CP-MS-010625	PD	1/6/2025		MS	WG	3	G	N	X																			
4	PD-CP-MSD-010625	PD	1/6/2025	↓	MSD	WG	3	G	N	X																			
5	ASF-CP-00-010625	N	1/6/2025	0930	N	WG	5	G	N													X	X	X					
6	ASF-CP-01-010625	FD	1/6/2025	↓	FD	WG	5	G	N													X	X	X					
7	TB-010625		1/6/2025		TB	WQ	2		N	X																			
8																													
9																													
10																													
11																													
12																													
13																													
14																													

Special Instructions: *OU-5 January 2025 Monthly System Samples*

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

Relinquished by: BRIAN J DUNN	Date: 1/6/2025	Courier Name: ~~FedEx~~ PEZONCE	Date: 01.06.25
Of: GES, Inc.	Time: 1545	Tracking #:	Time: 17:45
Relinquished by:	Date: 1/6/25	Courier Name: PEZONCE	Date: 01.06.25
Of: P. LI	Time: 18.00	Tracking #:	Time: 20:45
Courier Name: FedEx	Date:	Received By:	Date: 1/6/25
Tracking #:	Time:	Of: P. LI	Time: 15:00

Condition:

Custody Seals Intact? *(if so, indicate the #, date, and time of the seal)*

Cooler Temperature: 3.0 (W)

Other comments or notes regarding condition of samples as received:

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

Sample 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

Emma Williams 1/7/25 0130

Emma Williams 1/6/25 2230

Ryan Fox 01/7/25 0230

1.0

2 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

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

Client Ramboll

Project Claremont Polychemical Site Q1 sys Samples

MCP/RCP Required N/A

Deliverable Package Requirement CAT A

Location Old Bethpage, New York

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time RL/1-7-25/0230

Back-Sheet By / Date / Time RL/1-7-25/0851

Temperature Method gun # 6

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

Temp < 6° C Actual Temperature 0.6, 1.0

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

	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	☑	☑ (RV)
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 ☐ ☐

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

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

Qualtrax ID: 120836

Pace	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																
HCL																						
Sulfuric																						
Sulfuric		250mL																				
Phosphoric																						
HCl																						
Unpreserved		100mL	2	2																		
Unpreserved	Plastics	1 Liter																				
Sulfuric																						
Unpreserved		500mL	4	4																		
Sulfuric																						
Unpreserved		250mL																				
Trizma																						
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved	VOA Vials																					
HCl			4	2			2															
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact	Other / Fill in																					