



Prepared for:
Philips North America LLC
Lock Haven, Pennsylvania

Submitted by:
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September 2022

June 2021 Semi Annual Status Report
on Remedial Actions
American Candle Company
(Former Ferroxcube Site)
Saugerties, New York
NYSDEC Site No. 356011

REPORTING PERIOD:
January - June 2021



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A handwritten signature in cursive script that reads "Chris French".

Prepared By: Chris French, Geologist

A handwritten signature in cursive script that reads "Lindsay Mitchell".

Reviewed By: Lindsay Mitchell, Project Manager

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1.0 Introduction

AECOM has prepared this Status Report on Remedial Actions at the American Candle Company (former Ferroxcube Site) property (the “Site”) for the period of January to June 2021 on behalf of Philips North America, LLC (Philips). The original property consisted of 41.5 acres at 1033 Kings Highway, Saugerties, Ulster County, New York (**Figure 1**).

The Site has historically been operated by Ferroxcube, and later Philips Components (Philips). Both businesses were owned by Philips and manufactured electronic components at this Site from 1961 until 2000. Volatile organic compounds (VOCs), specifically halogenated solvents, were used in production operations and this resulted in releases to soil and groundwater. In 1991, Philips discontinued using these solvents. Philips stopped operations at this facility in January 2001, and the property was sold to ClearlyTech. In turn, ClearlyTech leased the property to American Candle, a perfume and candle-manufacturing firm, for several years. The Site is currently vacant.

Area groundwater has been impacted by historic operations at the Site. In 1982, the Ulster County Department of Health (DOH) discovered halogenated hydrocarbons above drinking water standards in six nearby residential wells. As a result, groundwater and surface soil investigations were conducted, source areas were evaluated, and impacted soil and groundwater were identified. Philips purchased several of the adjacent residential properties and these residences were either demolished or vacated. The last of the private residences with an impacted water supply was connected to municipal water in October 2014.

The New York State Department of Environmental Conservation (NYSDEC) issued a Record of Decision (ROD) regarding the Remedial Design (RD), the Remedial Action Operation and Maintenance Plan (O&M Plan), and subsequent amendments. The RD and O&M Plan present a remedy for VOC impacts to groundwater at the Site.

To monitor Site conditions, monitoring wells are sampled regularly (refer to **Figure 2**). Three groundwater monitoring wells in a former Solvent Storage Shed Area of the Site continue to be sampled on a quarterly basis, typically in March, June, September, and December. Five monitoring wells in a former 1,1,1-Trichloroethane (TCA) Aboveground Storage Tank (AST) Area are monitored on an annual basis, typically in September. This annual sampling event was previously completed in September of 2020.

Former Solvent Storage Shed Area (Northern Portion of the Property): A solvent storage shed formerly attached to Building 2 in the northern portion of the Site was identified as a probable source area for soil and groundwater impacted by tetrachloroethene (PCE) and its breakdown products: 1,2-dichloroethene (1,2-DCE) and 1,1-dichloroethene (1,1-DCE). Site soils and groundwater in the northern portion of the property also contain 1,1-dichloroethane (1,1-DCA), 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), and 1,1,2-trichloro-1,2,2-trifluoroethane (Freon-113).

Historically, the highest concentration of halogenated solvent compounds was found in groundwater at the bedrock-overburden interface. Remedial activities in this area of the Site included air sparging, soil vapor extraction, groundwater pumping and treatment, and permanganate injections. The permanganate was injected in accordance with a work plan approved by the NYSDEC on June 27, 2006. The first injection occurred in August 2006, the second in November 2006, and the third in July 2007. Operation of the groundwater treatment system, installed at the former Solvent Storage Shed Area to hydraulically

control groundwater flow, was suspended in August 2006 while the effectiveness of the permanganate treatment processes was being monitored. The groundwater treatment system was restarted in July 2008 in order to maintain hydraulic control of the bedrock aquifer. RW-4 was the recovery well for the pump and treat system.

Former TCA AST Area (Southern Portion of the Property): A TCA AST was once present in the southern portion of the property. The area of this former AST was identified as a probable source area for groundwater impacted by 1,1,1-TCA and its breakdown products (1,1-DCE, 1,1-DCA, chloroethane, and ethane).

Remedial actions in this area of the Site have included a series of bionutrient substrate injections intended to promote the reductive dechlorination of VOCs by naturally occurring soil bacteria *in situ*. A network of groundwater monitoring wells in this area of the Site were used to monitor the effectiveness of this remedy (**Figure 2**). The most recent injection of bionutrient substrate, the Emulsified Oil Substrate (EOS) product, occurred in September 2013 in accordance with the provisions of an Underground Injection Control (UIC) Program application authorized by a United States Environmental Protection Agency (US EPA) letter dated August 16, 2013.

2.0 Quarterly Monitoring Work Scope and Tasks

2.1 Quarterly Monitoring Requirements

Groundwater monitoring, which includes measuring and recording depth-to-groundwater, pH, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity, and conductivity, is performed during each quarterly and annual sampling event. The depth-to-groundwater measurements are then utilized to calculate groundwater elevations in each of the wells (**Table 1**).

In the former Solvent Storage Shed Area, three groundwater monitoring wells (BW-5, RW-4, and K-Well) (**Figure 2**) were sampled for VOCs and Per- and Polyfluoroalkyl Substances (PFAS). Groundwater monitoring wells in the former TCA AST Area were not sampled during the reporting period.

Groundwater monitoring tasks at the Site were conducted in accordance with the O&M Plan. Prior to purging or sampling, the monitoring wells were gauged for depth-to-groundwater to provide information on the Site's hydrology at the time of the sampling event. Each well was then purged until the field parameters stabilized or three well volumes had been removed. When applicable, decontamination of the sampling equipment (e.g., a submersible pump) was performed between each well. When submersible pumps were not used for purging and sampling, a peristaltic pump with dedicated polyethylene and silicone tubing, PFAS-free bladder pump, and/or PFAS-free bailers were utilized. Equipment used and field monitoring parameters recorded during the sampling events are included in **Appendix A**.

The groundwater samples were collected in laboratory-supplied containers and submitted to Eurofins TestAmerica in Amherst, New York, for analysis. Quality assurance/quality control (QA/QC) samples were also collected for the sampling event, including field duplicates, matrix spike and matrix spike duplicates, an equipment blank (PFAS only), and a trip blank (VOCs only). Laboratory analytical results are provided in **Appendix B**.

Prior to November 2020, all purge water and water used during the decontamination process was sent through the groundwater treatment system. However, due to the groundwater treatment system shutdown (Sections 2.2 and 2.3 below), during the March 2021 and June 2021 sampling events, purge and decontamination water were temporarily stored in 55-gallon drums within the treatment building pending off-site disposal. During the colder months, the treatment building remains sufficiently heated to prevent freezing.

2.2 Groundwater Treatment System Requirements

The groundwater treatment system in the former Solvent Storage Shed Area extracted groundwater from recovery well RW-4. The groundwater treatment system began utilizing RW-4 as an extraction well in January 2004.

Prior to shutdown of the treatment system, monthly site visits were conducted to monitor the groundwater treatment system operation and to document compliance with the requirements of the SPDES Permit Equivalent authorized by the NYSDEC. Compliance monitoring and sampling included checking the system flow, documenting totalizer readings, operation of the pump and treat equipment, taking pH readings, and collecting samples on a monthly basis to evaluate the effectiveness of the groundwater treatment system. These samples were collected in laboratory-supplied containers for analysis from three

locations within the treatment system (System Influent, Between Carbon, and System Effluent), and were then submitted to Eurofins TestAmerica in Amherst, New York for analysis of VOCs. Additionally, a total iron sample was collected from the Effluent on a monthly basis.

The SPDES Permit Equivalent authorization granted on July 22, 2009 by the NYSDEC Division of Water to discharge effluent from the groundwater pump and treat system to the Mudder Kill (water index number H-171-4, Class C) was renewed on August 26, 2019.

On August 13, 2009, the treatment system was reconfigured to bypass the air stripper. The reconfiguration was approved by the NYSDEC in a letter dated July 27, 2009. In order to confirm that the activated carbon beds were adequate to maintain compliance, MWH Americas, Inc. (MWH), the previous O&M contractor, initiated bimonthly sampling on August 27, 2009. This additional sampling continued until November 17, 2009. AECOM resumed the normal monthly sampling program on December 30, 2009. On November 4, 2020, the NYSDEC approved a Revised O&M Plan submitted by AECOM on January 9, 2020. The approved changes included discontinuation of the groundwater treatment system, changes to the sampling frequency and analytical requirements for certain wells, and abandonment of seventeen wells throughout the Site. The last monthly sampling event was performed on October 23, 2020.

2.3 Procedural Exceptions

After the NYSDEC approved the Revised O&M Plan on November 4, 2020, the system was shut down and winterized in the event of possible future use beginning on November 13, 2020. The following steps were taken between November 13, 2020 and January 7, 2021:

1. Pumped down the holding tank through the system.
2. Finished pumping the holding tank with a pump.
3. Disconnected all hoses and drained them into a bucket. This water was pumped through the system with the pump.
4. Tried to remove the drain plug from the transfer pump but was unable to. Removed the piping and vacuumed out the pump.
5. Drained Bag Filter #1 into a bucket and pumped the water through Bag Filters #2, #3 and the system.
6. Drained Bag Filter #2 into a bucket and pumped the water through Bag Filter #3 and the system.
7. Drained Bag Filter #3 into a bucket and pumped the water through the system.
8. Drained carbon unit #1 into a bucket and pumped it through carbon unit #2.
9. Removed the pump from well RW-4. Vacuumed out the lines and turned off the heat trace.
10. Stored the pump and lines inside the treatment building. Put the plug on the well casing.
11. Siphoned water from the last carbon tank (clean carbon) into a bucket and pumped through the discharge pipe.

3.0 Results

During this monitoring period, the remedial action and monitoring activities described above were performed to address VOCs present in groundwater at the former Solvent Storage Shed Area. The bedrock groundwater flow conditions in the former Solvent Storage Shed Area are depicted on **Figure 3**. A summary of recent laboratory analytical results from the former Solvent Storage Shed Area is included on **Figure 4**. Similarly, the groundwater flow conditions in the former TCA AST Area are depicted on **Figure 5**, and a summary of recent laboratory analytical results is presented on **Figure 6**.

3.1 Former Solvent Storage Shed Area

Compliance samples have not been collected since October 2020 due to the system shutdown.

Results obtained from the March and June 2021 sampling of groundwater monitoring wells in the former Solvent Storage Shed Area are presented in **Table 2** and discussed below. The March 2021 sampling event was completed over two days, March 23, 2021 and March 26, 2021, due to complications with the bladder pump.

- Bedrock monitoring well BW-5 is located on the former Ferroxcube manufacturing plant site approximately 120 feet east/northeast of the former Solvent Storage Shed. The groundwater sample collected from BW-5 in March 2021 contained five VOCs (1,1,1-Trichloroethane, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene, and Freon 113) at concentrations that exceeded NYSDEC Ambient Water Quality Standards (AWQS). The total concentration of VOCs detected at this well in March 2021 was 176.01 micrograms per liter (µg/L). The groundwater sample collected from BW-5 in June 2021 contained two VOCs (cis-1,2-Dichloroethene and Tetrachloroethene) at concentrations that exceeded AWQS. The March total VOC concentration was significantly higher than detected during the September 2020 and December 2020 sampling events (74.8 µg/L and 77.6 µg/L, respectively), but significantly lower than the concentration detected during the June 2020 sampling event (226.38 µg/L). The total VOC concentration during the June 2021 sampling event (78.1 µg/L) was similar to both the September 2020 and December 2020 events. The concentration fluctuations noted are not uncommon at this well location.
- Groundwater collected from BW-5 in March 2021 and June 2021 contained both Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) above the NYSDEC Ambient Water Quality Guidance Values (AWQ GV). PFOS was detected at a concentration of 100 nanograms per liter (ng/L) in March and 120 ng/L in June. PFOA was detected at 15 ng/L in March and 19 ng/L in June. The total concentration of PFAS detected at this well in March 2021 was 151.8 ng/L, while in June 2021 it was 182.6 ng/L. The PFOS concentrations were generally lower than the concentrations detected during 2020, while PFOA concentrations have remained steady during this period (refer to **Table 2**).
- Bedrock monitoring well K-Well is located on Philips property approximately 330 feet east/northeast of the former Solvent Storage Shed. The groundwater sample collected from K-Well in March 2021 contained five VOCs in excess of the AWQS (cis-1,2-Dichloroethene, 1,1,1-Trichloroethane, Trichloroethene, Tetrachloroethene, and Freon-113), while the groundwater sample collected in June 2021 contained one VOC (Tetrachloroethene) in excess of the AWQS. The total VOC concentrations detected at this well were 145.8 µg/L and 31 ng/L in March 2021

and June 2021, respectively. The March 2021 concentration was similar to the total VOCs detected in June 2020 (149.5 µg/L), September 2020 (168.0 µg/L), and December 2020 (138.6 µg/L), while the June 2021 total VOC concentration was significantly lower. Concentration fluctuations of this magnitude have occurred at this well in the past.

- Groundwater in K-Well contained both PFOS (73 ng/L) and PFOA (11 ng/L) above the NYSDEC AWQ GV in March 2021. PFOS was also detected at a concentration of 46 ng/L, above the AWQ GV, in June 2021. The PFOA concentration was 6 ng/L during that event. During the March 2021 sampling event the total PFAS concentration was 109.4 ng/L, and in June 2021 it was 72.26 ng/L. PFOS concentrations were significantly lower in 2021 than in 2020, while PFOA concentrations remained relatively consistent during this period.
- Several VOCs were detected in the sample collected from former recovery well RW-4 in March 2021, seven of which (1,1-Dichloroethene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, 1,1,1-Trichloroethane, Tetrachloroethene, Trichloroethene, and Freon-113) were detected at concentrations that exceeded their respective AWQS. The groundwater sample collected from RW-4 in June 2021 contained only one VOC in excess of the AWQS (Freon-113). The total VOC concentration detected in March 2021 was 189.3 µg/L, which is higher than the concentrations detected during the June 2020 (29.48 µg/L) and September 2020 (23.51 µg/L) sampling events, but lower than the total VOC concentration in December 2020 (215.97 µg/L). The increases in December 2020 and March 2021 can likely be attributed to the shutdown of the groundwater treatment system in November 2020. The total VOC concentration detected in June 2021 was 33.53 µg/L, a concentration similar to historical levels for this well.
- Ten PFAS were detected in the groundwater sample from well RW-4 in March 2021, albeit at relatively low concentrations (refer to **Table 2**). PFOS and PFOA were detected at concentrations of 6.8 ng/L and 2.3 ng/L, respectively, with only PFOS exceeding the NYSDEC AWQ GV. In June 2021 PFOS again exceeded the AWQ GV with a concentration of 22 ng/L, while PFOA was detected at a concentration of 6.6 ng/L, just below the AWQ GV. The March 2021 total PFAS concentration (15.4 ng/L) was similar to December 2020 (14.69 ng/L), but lower than in June 2021 (45.13 ng/L).

Despite the continued presence of VOCs in excess of AWQS and the fluctuation of their concentrations observed in bedrock groundwater in the Solvent Storage Shed Area of the Site, the general decreasing trend in VOC concentrations for all regularly monitored wells (with the exception of RW-4 as discussed previously) demonstrate the combined effects of the remedial activities performed to date for this area and natural attenuative processes in the northern portion of the Site.

3.2 Former TCA AST Area

The former TCA AST Area wells were not monitored during the March or June 2021 sampling events. **Table 3** contains sampling results through September 2020. These wells were monitored during the annual sampling event in September 2021.

4.0 Planned Activities

The groundwater pump and treat system was shut down on November 13, 2020 in accordance with NYSDEC approval of the Revised O&M Plan; as a result, monthly compliance sampling ceased as of October 2020.

Monitoring of groundwater at the former Solvent Storage Shed Area will continue on a quarterly basis to document the reductions in concentrations of VOCs. Groundwater beneath the former TCA AST Area will continue to be monitored on an annual basis in September. Sampling and reporting of emerging contaminants will continue as indicated in the NYSDEC's November 4, 2020 letter.

Tables

Table 1 Summary of Groundwater Elevation (Gauging) Data			
Well Identification	Top of Casing Elevation*	Depth-to-Groundwater (feet)	Groundwater Elevation*
Former Solvent Storage Shed Area Wells, March 23, 2021			
Andreassen	163.82	14.02^	149.80
Miles	161.22	11.64	149.58
BR-00-02	162.16	1.73^	160.43
BR-00-03	162.41	10.35	152.06
BW-1	164.65	14.50	150.15
BW-2	163.62	12.34	151.28
BW-3	165.44	14.48	150.96
BW-5	163.57	14.20	149.37
K WELL	162.86	13.12	149.74
OW-1D	159.67	4.13^	155.54
OW-1S	159.91	9.05	150.86
OW-2	162.51	10.68	151.83
OW-10	165.24	14.70	150.54
OW-11	164.22	NM	NM
OW-14	165.73	16.31	149.42
RW-4	162.78	12.79	149.99
Former TCA Tank Area Wells, March 23, 2021			
ITDW-1	171.77	7.78	163.99
ITMW-1	172.03	5.62	166.41
ITMW-3	171.74	6.56	165.18
ITMW-4	171.15	6.54	164.61
ITMW-6	170.97	5.89	165.08
MW-7	162.72	NM	NM
MW-8	171.58	6.64	164.94
MW-9	172.44	4.75	167.69

Notes:

* = Top of casing and groundwater elevations are based on USGS NAVD 1927 and are given in feet above mean sea level.

NM - Not measured.

NA - Not available.

^ = Well cap missing, therefore depth-to-groundwater measurement invalid

Table 2
Former Solvent Storage Shed Area Data

VOCs-µg/L	NY Water Quality Standards µg/L	BW-3																											
		3/6/13	6/26/13	9/24/13	12/16/13	3/17/14	6/4/14	9/17/14	12/18/14	3/5/15	6/11/15	9/9/15	12/15/15	3/17/16	6/21/16	9/14/16	12/20/16	3/28/17	6/15/17	9/20/17	12/20/17	3/20/18	6/25/18	9/27/18	12/5/18	3/19/19	6/11/19		
Chloromethane	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.37 J	<1	<1	<1	<1	<1	<0.35	<1	<1	<1	<1	
Vinyl Chloride	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.90	<1	<1	<1	<1	
Bromomethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.69	<1	<1	<1	<1	
Chloroethane	5	<1	<1	<1	<1	<1	0.33 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.32	<1	<1	<1	<1	
Trichlorofluoromethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.88	<1	<1	<1	<1	
1,1-Dichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.29	<1	<1	<1	<1	
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.44	<1	<1	<1	<1	
trans-1,2-Dichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.90	<1	<1	<1	<1	
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.38	<1	<1	<1	<1	
cis-1,2-Dichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.81	<1	<1	<1	<1	
Chloroform	7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.34	<1	<1	<1	<1	
1,2-Dichloroethane	0.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.21	<1	<1	<1	<1	
1,1,1-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.82	<1	<1	<1	<1	
Carbon Tetrachloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.27	<1	<1	<1	<1	
1,2-Dichloropropane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.72	<1	<1	<1	<1	
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.58 J	<1	<1	<1	<1	<1	<1	<1	<1	<0.46	<1	<1	<1	<1	
Bromodichloromethane	50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.87	<1	<1	<1	<1	
cis-1,3-Dichloropropene	0.4*	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.36	<1	<1	<1	<1	
trans-1,3-Dichloropropene	0.4*	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.37	<1	<1	<1	<1	
1,1,2-Trichloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.23	<1	<1	<1	<1	
Dibromochloromethane	50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.32	<1	<1	<1	<1	
Tetrachloroethene	5	0.45 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	9.0	2.8	<1	<1	<1	<1	<1	<1	<1	<0.36	<1	<1	<1	<1	
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<1	<1	<1	<1	<1	<1	<1	<0.41	<1	<1	<1	<1	
Bromoform	50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.26	<1	<1	<1	<1	
Toluene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.56 J	<1	<1	<1	<1	<1	<1	<0.51	<1	<1	<1	<1	
Freon 113	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.31	<1	<1	<1	<1	
1,2-Dichloroethene (total)	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Total VOCs		0.45	ND	ND	ND	ND	0.33	ND	ND	ND	ND	ND	ND	ND	9.6	4.8	ND	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Field Parameters	Units																												
pH	S.U.	8.14	9.50	9.60	9.20	8.69	9.73	8.49	9.30	8.97	9.20	8.81	8.73	8.62	8.55	8.80	8.82	8.95	8.85	5.36	8.60	8.05	8.41	8.05		8.32	8.4	8.34	
DO	mg/L	2.82	4.20	5.00	4.20	6.07	4.50	15.43	5.24	6.87	NM	6.94	3.18	5.94	17.93	5.38	5.45	5.84	6.31	3.63	2.44	3.61	4.12	5.89	4.96	7.11	4.20		
Temperature	Degrees C	8.71	13.78	16.60	4.23	7.52	13.90	14.50	9.10	5.10	11.60	19.93	11.89	13.10	16.98	16.58	9.00	8.60	13.80	21.10	10.50	10.40	12.19	12.60	10.90	10.10	13.10		
ORP	mV	-91.0	-5.9	55.5	-15.6	-33.1	-40.1	104.0	78.9	95.9	-1207.0	74.7	62.1	131.0	124.6	33.9	28.4	150.8	86.7	56.8	114.9	23.9	44.6	-76.8	75.2	160.3	62.4		
Specific Conductivity	mS/cm²	0.170	0.198	0.193	0.263	0.238	0.235	0.142	NM	0.273	8.150	0.252	0.270	0.395	0.903	0.308	0.311	0.186	0.315	0.330	0.323	0.371	0.318	0.354	0.371	0.335	0.383		
Depth-to-groundwater	ft	14.65	14.90	17.52	19.90	12.89	12.25	15.20	17.97	14.36	12.67	12.77	7.36	9.12	11.51	15.68	18.64	12.20	11.06	14.40	17.14	9.34	15.00	22.83	13.59	14.96	16.54		

Notes:
NA = No standard or guidance value exists for the analyte
* Indicates the standard applies to the sum of cis- and trans-1,3-Dichloropropene
Bold numbers exceed the NY Ambient Water Quality Standards & Guidance Values
ND = No analytes were detected above method detection limits
I = Value is EMPC (estimated maximum possible concentration)
J = Estimated concentration; analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit
D = Dilution required due to high concentration of target analyte(s)
H = Sample was prepped or analyzed beyond the specified holding time
B = Compound was found in the blank and sample
E = Result exceeded calibration range
- = No data available
NM = Not measured
F1 = MS and/or MSD Recovery is outside acceptance limits

Notes:
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 E = Result exceeded calibration range
 - = No data available
 NM = Not measured
 F1 = MS and/or MSD Recovery is outside acceptance limits

Table 2
Former Solvent Storage Shed Area Data

[illegible][illegible]

NA = No standard or guidance value exists for the analyte
 * Indicates the standard applies to the sum of cis- and trans-1,3-Dichloropropene
Bold numbers exceed the NY Ambient Water Quality Standards & Guidance Values
 ND = No analytes were detected above method detection limits
 I = Value is EMPC (estimated maximum possible concentration)
 J = Estimated concentration; analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit
 D = Dilution required due to high concentration of target analyte(s)
 H = Sample was prepped or analyzed beyond the specified holding time
 B = Compound was found in the blank and sample
 E = Result exceeded calibration range
 - = No data available
 NM = Not measured
**** Well sampled in Dec 2018 for 2018 annual event**

Table 2
Former Solvent Storage Shed Area Data

VOCs-µg/L	NY Water Quality Standards µg/L	K-Well																																		
		3/6/13	6/26/13	9/24/13	12/16/13	3/17/14	6/4/14	9/17/14	12/18/14	3/5/15	6/11/15	9/9/15	12/15/15	3/17/16	6/21/16	9/14/16	12/20/16	3/28/17	6/15/17	6/15/17	9/20/17	12/20/17	3/20/2018	6/26/2018	9/27/2018	12/5/2018	3/19/2019	6/11/2019	12/3/2019	3/6/2020	6/8/2020	9/25/2020	12/22/2020	3/26/21	6/22/2021	
Chloromethane	NA	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.35	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<2	<1
Vinyl Chloride	2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.90	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<2	<1
Bromomethane	5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.69	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<2	<1
Chloroethane	5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	0.79	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<2	<1
Trichlorofluoromethane	5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.88	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<2	<1
1,1-Dichloroethene	5	1.2	<2	0.56 J	1.8	0.89 J	1.9	0.41 J	1.1	0.92 J	<1.0	1.6	0.75 J	0.76 J	<2	0.87 J	1.2	1.3	0.36 J	0.36 J	<1	<1	1.0	0.29	0.97 J	0.59 J	<1	0.45 J	0.72 J	<1	0.7 J	<2	1.2 J	1.1 J	<1	
Methylene Chloride	5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.44	<2	<1	<1	<1	<2	<2	<1	1.1 J	<2	<2	<1	
trans-1,2-Dichloroethene	5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.90	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<2	<1
1,1-Dichloroethane	5	4.4	5.5	3.7	7.5	4.8	5.1	2.7	5.2	4.2	3.1	4.0	3.5	3.2	2.9	3.6	<1	4.8	1.2	1.2	1.7	1.6	3.7	1.4	4.2	2.6	0.84 J	3.1	3.8	3.5	3	5.3	4	3.5	1.1	
cis-1,2-Dichloroethene	5	11	15	5.3	19	10	12	5.8	13	9.0	6.5	11	9.9	9.5	7.9	9.2	2.1	10	2.2	2.2	3	3.6	10	3.4	13	7.8	2.2	9.6	13	11	9.1	17	12	11	2.8	
Chloroform	7	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.34	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
1,2-Dichloroethane	0.6	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.21	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
1,1,1-Trichloroethane	5	8.3	8.7	3.3	10	5.7	7.7	6.1	7.5	6.4	6.0	8.6	9.6	8.4	5.6	7.8	0.91 J	8.8	0.91 J	0.91 J	0.92 J	<1	6.6	0.82	8.5	5.3	<1	5.4	5.3	4.6	4.9	6.5	6.2	5.9	1.5	
Carbon Tetrachloride	5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.27	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
1,2-Dichloropropane	1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.72	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
Trichloroethene	5	9.1	9.4	6.3	11	8.9	9.8	5.6	9.0	7.6	6.5	10	9.7	8.5	5.9	8	2.1	9.8	2.1	2.1	2.4	2.4	9.2	2.9	12	7.3	2	8.3	10	8.7	7.7	13	9.8	8.2	2.6	
Bromodichloromethane	50	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.87	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
cis-1,3-Dichloropropene	0.4*	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.36	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
trans-1,3-Dichloropropene	0.4*	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.37	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
1,1,2-Trichloroethane	1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.23	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
Dibromochloromethane	50	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.32	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
Tetrachloroethene	5	99	130	39	110	68	100	71	87	77	69	97	99	120	77	91	24	120	23	23	27	32	98	27.0	130	100	22	<1	98	120	120	120	100	110 F1	23	
Benzene	1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	0.80 J	<1	<1	<1	<1	<1	<1	<1	<0.41	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
Bromoform	50	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.26	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
Toluene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.51	<2	<1	<1	<1	<2	<2	<1	<2	<2	<2	<1	
Freon 113	5	7.9	8.9	2.3	8.3	4.8	7.9	4.4	6.9	6.9	7.9	8.1	7.8	7.2	4.8	6.7	<1	12	1.2	1.2	1.2	0.82 J	6.8	0.31	6.2	4.7	.39 J	5.1	4.2	4	4.1	5.1	5.4	6.1	<1	
1,2-Dichloroethene (total)	NA	11	15	5.3	19	10	12	5.8	13	9	6.5	11	9.9	9.5	7.9	9.2	2.1	10	2.2	2.2	3	<1	<1	<1	<2	<1	<1	<1	13	11	9.1	17	12	11	2.8	
Total VOCs		141	178	60.5	168	103	144	96.0	130	112	99.0	142	140	158	104	128	30.3	167	32	32	36	40	135	36	175	128	25	31.95	148.02	151.8	149.5	168	138.6	145.8	31	
Fluorinated Alkyl Substances-ng/L		Proposed NYSDEC AWQ GV,ng/L																																		
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<17	NM	NM	NM	NM	<17	<17	<17	<17	<1.7	<1.8	<1.8	<1.7
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1 J	NM	NM	NM	NM	<17	<17	<17	<4.2	<4.6	<4.4	<4.3	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<17	NM	NM	NM	NM	<17	<17	<17	<4.2	<4.6	<4.4	<4.3	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	NM	NM	NM	NM																															

VOCs-µg/L		NY Water Quality Standards µg/L		RW-4																															
		3/6/13	6/26/13	9/25/13	12/16/13	3/17/14	6/4/14	9/17/14	12/18/14	3/5/15	6/12/15	9/8/15	12/15/15	3/17/16	6/21/16	9/14/16	12/20/16	3/28/17	6/15/17	9/21/17	12/20/17	3/20/2018	6/29/2018	9/27/2018	12/5/2018	3/19/2019	6/11/2019	12/3/2019	3/6/2020	6/8/2020	9/25/2020	12/22/2020	3/26/21	6/22/2021	
Chloromethane	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.36 J	<1	<1	<1	<1	<1	<0.35	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
Vinyl Chloride	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.90	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
Bromomethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.69	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
Chloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.32	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
Trichlorofluoromethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.88	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
1,1-Dichloroethene	5	1.5	1.4	0.83 J	0.71 J	1.1	1.5	0.73 J	0.96 J	0.94 J	0.84 J F2	0.99 J	0.93 J	1.3	0.44 J	0.77 J	0.72 J	1.6	1.3	0.65 J	0.78 J	.88 J	0.59	0.99 J	1.2	1.1	0.89 J	1.0	0.91 J	0.8 J	0.43 J	12	10	0.71 J	
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.44	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
trans-1,2-Dichloroethene	5	1.6	1.5	1.1	<1	1.2	1.8	<1	<1	1.1	1.6 F2	1.3	1.1	1.4	<1	0.95 J	<1	<1	3.7	1.2	1.3	1.1 F1	1.7	1.6	1.4	1.7	1.4	1.4	1.5	1.4	1.5	1.1	<4	<1	
1,1-Dichloroethane	5	2.2	2.2	1.2	1.3	1.8	2.0	1.1	1.7	1.5	1.4 F2	1.3	1.7	1.8	0.71 J	1.2	1.5	2.8	1.5	1.1	0.77 J	1.6	1	1.9	1.9	1.3	<1	1.7	1	0.98 J	0.88 J	35	27	1.4	
cis-1,2-Dichloroethene	5	4.4	4.8	2.9	2.9	3.8	4.6	2.2	3.5	2.7	3.2 F2	2.8	3.1	4.2	1.9	2.9	2.6	2.6	5.6	3.3	2.6	1.6	3.4	2.2	3.3	3.7	2.9	2.8	3.3	2.6	2.3	2.1	7.7	8.3	1.1
Chloroform	7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.34	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
1,2-Dichloroethane	0.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.21	<1	<1	<1	<1	<1	<1	<1	<1	0.27 J	<4	<1	
1,1,1-Trichloroethane	5	1.6	1.5	<1	1.0	1.3	1.4	<1.0	1.3	<1.0	<1.0	0.86 J	1.3	1.5	<1	1.1	0.90 J	0.90 J	1.3	1.3	<1	<1	1.1	<0.82	1.2	1.6	1	0.98 J	1.0	<1	<1	<1	14	13	3.6
Carbon Tetrachloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.27	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
1,2-Dichloropropane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.72	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
Trichloroethene	5	27	25	17	12	18	22	18	15	15	17 F1 F2	16	17	21	8.2	14	9.4	9.4	23	16	11	8.2 F1	10	9.3	13	17	16	17	11	11	13	12	13	21	3
Bromodichloromethane	50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.39	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
cis-1,3-Dichloropropene	0.4*	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.36	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
trans-1,3-Dichloropropene	0.4*	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.37	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
1,1,2-Trichloroethane	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.23	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
Dibromochloromethane	50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.32	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
Tetrachloroethene	5	29	24	15	16	22	20	15	19	15	16	15	15	18	8.1	14	12	12	16	22	13	10 F1	14	9.2	20	17	12	11	14	12	9.5	7	4	16	0.72 J
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.41	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
Bromoform	50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.26	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
Toluene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.51	<1	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	
Freon 113	5	6.4	4.9	1.9	2.2	2.4	3.2	1.9	1.9	1.9	1.8 F2	1.5	2.4	2.5	1.2	1.8	1.6	2.9	2.5	0.94 J	0.92 J	1.5	1.2	2.5	2.6	2.3	1.9	1.9	1.4	1.4	<1	130	94	23	
1,2-Dichloroethene (total)	NA	6.0	6.3	4.0	2.9	5.0	6.4	2.2	3.5	3.8	4.8	4.1	4.2	5.6	1.9	3.85	2.6	2.6	9.3	4.5	3.9	<1	<1	<1	<1	<1	4.8	<1	<1	3.8	3.2	7.7	8.3	1.1	
Total VOCs		73.7	65.3	39.9	36.1	51.6	56.5	38.9	43.4	38.1	41.8	39.8	42.5	51.7	20.6	36.7	29.1	29.1	56.9	49.1	30.6	23.4	34.18	25.1	44.3	46.7	37.0	36.0	35.4	30.31	29.48	23.51	215.97	189.3	33.53
		Proposed NYSDEC AWQ GV-ng/L																																	
Fluorinated Alkyl Substances-ng/L																																			
1H,1H,2H-perfluorooctanesulfonic acid (8:2)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<18	<18	<17	<17	<2.0	<1.7	<1.8
1H,1H,2H-perfluorooctanesulfonic acid (6:2)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<18	<18	<17	<4.2	<5.0	<4.3	1.6 J
N-ethylperfluorooctanesulfonamidoacetic acid (NtEFOSAA)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<18	<18	<17	<4.2	<5.0	<4.3	<4.5
N-methylperfluorooctanesulfonamidoacetic acid (NmEFOSAA)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<18	<18	<17	<4.2	<5.0	<4.3	<4.5
Perfluorobutanesulfonic acid (PFBS)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<1.8	0.19 J	0.45 J	<1.7	0.52 J	0.45 JB	1.1 J
Perfluorobutanoic acid (PFBA)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.97 J	0.31 J	<1.7	<4.2	<5.0	2.0 J	3.9 J
Perfluorodecanesulfonic acid (PFDS)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<1.8	<1.8	<1.7	<1.7	<2.0	<1.7	0.52 J
Perfluorodecanoic acid (PFDA)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<1.8	<1.8	<1.7	<1.7	<2.0	<1.7	0.52 J
Perfluorododecanoic acid (PFDoA)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<1.8	<1.8	<1.7	<1.7	<2.0	<1.7	<1.8
Perfluoroheptanesulfonic acid (PFHpS)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<1.8	<1.8	<1.7	<1.7	<2.0	<1.7	0.37 J
Perfluoroheptanoic acid (PFHpA)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<1.8	<1.8	<1.7	<1.7	0.62 J	0.56 J B	1.7 J
Perfluorohexanesulfonic acid (PFHxS)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<1.8	<1.8	<1.7	<1.7	0.75 J	0.54 J B	1.3 J
Perfluorohexanoic acid (PFHxA)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<1.8	<1.8	<1.7	<1.7	0.80 J	0.64 J	1.9
Perfluorononanoic acid (PFNA)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	<1.8	<1.8	<1.7	<1.7	<2.0	0.56 J	0.88 J
Perfluorooctanesulfonamide (PFOSA)		--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM																							

Notes:
 NA = No standard or guidance value exists for the analyte
 * Indicates the standard applies to the sum of cis- and trans-1,3-Dichloropropene
Bold numbers exceed the NY Ambient Water Quality Standards & Guidance Values
 ND = No analytes were detected above method detection limits
 I = Value is EMPC (estimated maximum possible concentration)
 J = Estimated concentration; analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit
 D = Dilution required due to high concentration of target analyte(s)
 H = Sample was prepped or analyzed beyond the specified holding time
 B = Compound was found in the blank and sample
 E = Result exceeded calibration range
 - = No data available
 NM = Not measured
 On 12/16/13 Naphthalene was detected in K-Well at a concentration of 0.50 J µg/L
 F1 = MS and/or MSD Recovery is outside acceptance limits.
 F2 = MS/MSD RPD exceeds control limits

Table 3
Former TCA AST Area Data

	NY Water Quality Standards or GVs		ITMW-1																							
VOCs - µg/L		EPA Method	6/1/01	7/6/01	8/14/01	9/21/01	10/25/01	6/28/02	8/14/02	10/4/02	11/19/02	12/18/02	1/16/03	2/26/03	3/25/03	4/24/03	5/16/03	6/25/03	7/15/03	8/19/03	9/19/03	10/2/03	11/25/03	12/22/03	1/16/04	
Chloromethane	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<500	<50	<10	<200	730	350	590	500	620
Chloroethane	5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	<500	<500	<200	<50	200	<400	1,700	1,600	1,400	1,000
Methylene Chloride	5		<100	<500	<500	<1,000	<1,000	<1,000	<1,000	<1,000	<500	<500	<200	<200	<500	<500	<500	<200	<50	200	<400	<400	<100	<200	<400	
1,1-Dichloroethene	5		10,000	14,000	27,000	22,000	14,000	17,000	13,000	5,500	4,100	6,600	38,000	9,300	11,000	13,765	6,970	8,600	10,000	7,300	5,000	7,200	170	150	940	
1,1-Dichloroethane	5		2,000	2,200	5,400	10,000	8,100	3,100	4,500	7,600	1,200	9,300	9,600	12,000	11,000	14,745	3,315	12,000	17,000	16,000	10,000	14,000	9,100	8,800	7,800	
1,2-Dichloroethene, total	5		<100	<500	<500	<1,000	<1,000	<1,000	<1,000	<1,000	<500	<500	<200	<200	<500	-	-	<50	<20	<200	<200	<200	<50	<100	<200	
Chloroform	7		<100	<500	<500	<1,000	<1,000	<1,000	<1,000	<1,000	<500	<500	<200	<200	<500	<500	<500	<50	<10	<200	<200	<200	<50	<100	<200	
1,2-Dichloroethane	0.6		<100	<500	<500	<1,000	<1,000	<1,000	<1,000	<1,000	<500	<500	<200	<200	<500	<500	<500	65	80	<200	<200	<200	53	<100	<200	
cis-1,2-Dichloroethene	5		<100	<500	<500	<1,000	<1,000	<1,000	<1,000	<1,000	<500	<500	<200	<200	<500	<500	<500	<50	<10	<200	<200	<200	<50	<100	<200	
1,1,1-Trichloroethane	5		26,000	30,000	45,000	49,000	25,000	28,000	27,000	12,000	8,900	8,100	52,000	5,500	12,000	11,835	8,145	3,500	2,900	<200	<200	470	<50	<100	<200	
1,1-Dichloroethene	5		<100	<500	<500	<1,000	<1,000	<1,000	<1,000	<1,000	<500	<500	<200	<200	<500	<500	<500	<50	11	<200	<200	<200	<50	<100	<200	
Tetrachloroethene	5		<100	<500	<500	<1,000	<1,000	<1,000	<1,000	<1,000	<500	<500	<200	<200	<500	<500	<500	<50	<10	<200	<200	<200	<50	<100	<200	
Freon 113	5		<100	<500	<500	<1,000	<1,000	<1,000	<1,000	<1,000	<500	<500	<200	<1000	<500	<500	<500	<100	<50	<200	<200	<200	<50	<100	<200	
Naphthalene	10		<100	<500	<500	<1,000	<1,000	<1,000	<1,000	<1,000	<500	<500	<200	<1000	<500	<500	<500	<100	<50	<200	<200	<200	<50	<100	<200	
Total VOCs	100		38,000	46,200	77,400	81,000	47,100	48,100	44,500	25,100	14,200	24,000	99,600	26,800	34,000	40,345	18,430	24,165	29,991	23,700	15,730	23,720	11,513	10,850	10,360	
Per- and Polyfluoroalkyl Substances - ng/L																										
1H,1H,2H,2H-perfluorodecanesulfonic acid (6:2)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
N-methylperfluorooctanesulfonamidoacetic acid (NMtFOSAA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorobutanesulfonic acid (PFBS)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorobutanoic acid (PFBA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorodecanesulfonic acid (PFDS)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorodecanoic acid (PFDA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorododecanoic acid (PFDoA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluoroheptanesulfonic Acid (PFHpS)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluoroheptanoic acid (PFHpA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorohexanesulfonic acid (PFHxS)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorohexanoic acid (PFHxA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorononanoic acid (PFNA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorooctanesulfonamide (PFOSA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorooctanesulfonic acid (PFOS)	2.7		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorooctanoic acid (PFOA)	6.7		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluoropentanoic acid (PFPeA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorotetradecanoic acid (PFTeA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluorotridecanoic acid (PFTriA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Perfluoroundecanoic acid (PFUnA)	--		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Total Per- and Polyfluoroalkyl Substances			--																							
1,4-Dioxane - µg/L	0.35		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Inorganics - mg/L																										
Alkalinity	NA	EPA 310.1	410	430	500	575	695	NS	572	571	844	794	745	NS	758	795	668	760	806	828	806	919	933	1,450	1,400	
Total Organic Carbon	NA	EPA 415.2	2.4	14	107	777	582	NS	106	152	997	344	232	NS	286	122	107	147	193	243	260	338	304	1,290	1,350	
Sulfate	250	EPA 300.0	87	85	56	<2	<2	NS	32.9	<5	<5	<5	6.7	NS	<5	<5	<5	<5	<5	5	<5	<5	<5	<5	<5	
Sulfide	0.05	EPA 376.2	<0.1	<0.1	1.6	0.7	0.6	NS	0.66	0.6	1.61	1.29	0.77	NS	0.4	0.3	0.61	0.72	1.5	1.2	5.3	0.76	0.51	0.43	0.39	
Nitride	250	EPA 300.0	101	163	256	327	314	NS	296	169	39.1	128	74	NS	133	120	99.5	115	125	130	101	150	124	106	92.7	
Nitrate -N	10	EPA 353.1	<0.02	<0.02	0.28	<0.02	<0.02	NS	<0.05	<0.05	<0.1	<0.05	<0.05	NS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	
Iron-Filtered	0.3	EPA 200.7	<0.05	<0.05	1.12	51	61.3	NS	4.34	37.6	77.9	25.3	NS	31.4	5.3	4.2	24.8	31.2	29.8	56.6	37.3	60	102	113		
Manganese-Filtered	0.3	EPA 200.7	1.09	1.11	2.04	2.41	3.25	NS	1.58	3.53	26.3	14.8	15.6	NS	17.7	0.041	10.6	13.7	12.6	15.4	22.3	22.1	30.7	52.7	61.6	
Methane (dissolved gas)	NA	GC	<0.01	<0.01	<0.01	<0.01	<0.01	NS	0.043	1.2	0.081	0.066	0.0038	NS	0.0039	0.0049	0.003	0.062	0.063	0.097	0.34	0.074	0.034	1	0.74	
Ethane (dissolved gas)	NA	GC	<0.01	<0.01	<0.01	<0.01	<0.01	NS	<0.005	<0.005	<0.005	<0.005	<0.005	NS	<0.00											

Notes:

- NA = No standard or guidance value exists for the analyte
- * = Total VOCs include Toluene and/or p-Cymene detections, which are not listed above
- Bold** numbers exceed the NY Ambient Water Quality Standards & Guidance Values
- ND = No analytes were detected above method detection limits
- NS = Not Sampled
- J = Estimated concentration; analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit
- B = Analyte detected in associated Method Blank
- NM = Not Monitored
- = No Data Available
- D = Dilution required due to high concentration of target analyte(s)
- ** = pH meter error
- H = Sample was prepped or analyzed beyond the specified holding time
- P = Digestate filtered
- L = Laboratory Control Sample (LCS) or LCS Duplicate exceeds the control limits
- F1 - MS and/or MSD Recovery is outside acceptance limits.
- F2 - MS/MSD RPD Exceeds control limits.
- E = Result exceeded calibration range

Notes:
 NA = No standard or guidance value exists for the analyte
 * = Total VOCs include Toluene and/or p-Cymene detections, which are not listed above
Bold numbers exceed the NY Ambient Water Quality Standards & Guidance Values
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- NA = No standard or guidance value exists for the analyte
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- F1 - MS and/or MSD Recovery is outside acceptance limits.
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 * = Total VOCs include Toluene and/or p-Cymene detections, which are not listed above
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 B = Analyte detected in associated Method Blank
 NM = Not Monitored
 - = No Data Available
 D = Dilution required due to high concentration of target analyte(s)
 ** = pH meter error
 H = Sample was prepped or analyzed beyond the specified holding time
 P = Digestate filtered
 L = Laboratory Control Sample (LCS) or LCS Duplicate exceeds the control limits
 * On 6/4/14, Benzene was detected at a value of 1.1 J µg/L (AWQS = 1 µg/L) and at 0.87 J in the duplicate sample
 *** = Total VOCs include Benzene detection, which is not listed above
 F1 - MS and/or MSD Recovery is outside acceptance limits.
 F2 - MS/MSD RPD Exceeds control limits.
 E = Result exceeded calibration range

Notes:

- NA = No standard or guidance value exists for the analyte
- * = Total VOCs include Toluene and/or p-Cymene detections, which are not listed above
- Bold** numbers exceed the NY Ambient Water Quality Standards & Guidance Values
- ND = No analytes were detected above method detection limits
- NS = Not Sampled
- J = Estimated concentration; analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit
- B = Analyte detected in associated Method Blank
- NM = Not Monitored
- = No Data Available
- D = Dilution required due to high concentration of target analyte(s)
- ** = pH meter error
- H = Sample was prepped or analyzed beyond the specified holding time
- P = Digestate filtered
- L = Laboratory Control Sample (LCS) or LCS Duplicate exceeds the control limits
- F1 - MS and/or MSD Recovery is outside acceptance limits.
- F2 - MS/MSD RPD Exceeds control limits.
- E = Result exceeded calibration range

Notes:
 NA = No standard or guidance value exists for the analyte
 * = Total VOCs include Toluene and/or p-Cymene detections, which are not listed above
Bold numbers exceed the NY Ambient Water Quality Standards & Guidance Values
 ND = No Analytes were detected above method detection limits
 J = Estimated concentration; analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit
 B = Analyte detected in associated Method Blank
 NM = Not Monitored
 ~ = No Data Available
 D = Dilution required due to high concentration of target analyte(s)
 ** = pH meter error
 H = Sample was prepared or analyzed beyond the specified holding time
 P = Digestate filtered
 L = Laboratory Control Sample (LCS) or LCS Duplicate exceeds the control limits
 ~ On 9/16/10, Nitrite was detected at a value of 0.0273 mg/L (AWQS = 1,000 mg/L)
 ~ On 12/9/10, P-Cymene was detected at a value of 2.8 DJ µg/L (AWQS = 5 µg/L) and at a value of 2.9 DJ µg/L in the blind field duplicate
 ~ On 3/18/2011, Formic Acid was detected at a value of 0.13 J µg/L

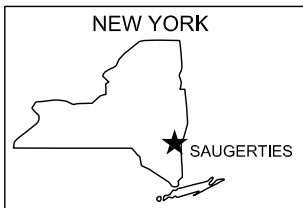
F1 - MS and/or MSD Recovery is outside acceptance limits.
 F2 - MS/MSD RPD Exceeds control limits.
 ^ - Instrument related QC is outside acceptance limits.
 E = Result exceeded calibration range

Notes:
 NA = No standard or guidance value exists for the analyte
 * = Total VOCs include Toluene and/or p-Cymene detections, which are not listed above
Bold numbers exceed the NY Ambient Water Quality Standards & Guidance Values
 ND = No analytes were detected above method detection limits
 NS = Not Sampled
 J = Estimated concentration; analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit
 B = Analyte detected in associated Method Blank
 NM = Not Monitored
 - = No Data Available
 D = Dilution required due to high concentration of target analyte(s)
 ** = pH meter error
 H = Sample was prepped or analyzed beyond the specified holding time
 P = Digestate filtered
 L = Laboratory Control Sample (LCS) or LCS Duplicate exceeds the control limits
 F1 - MS and/or MSD Recovery is outside acceptance limits.
 F2 - MS/MSD RPD Exceeds control limits.
 E = Result exceeded calibration range

Notes:

- NA = No standard or guidance value exists for the analyte
- * = Total VOCs include Toluene and/or p-Cymene detections, which are not listed above
- Total** numbers exceed the NY Ambient Water Quality Standards & Guidance Values
- ND = No analytes were detected above method detection limits
- NS = Not Sampled
- = Estimated concentration; analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit
- B = Analyte detected in associated Method Blank
- NM = Not Monitored
- = No Data Available
- D = Dilution required due to high concentration of target analyte(s)
- ** = pH meter error
- H = Sample was prepped or analyzed beyond the specified holding time
- P = Digestate filtered
- L = Laboratory Control Sample (LCS) or LCS Duplicate exceeds the control limits
- F1 - MS and/or MSD Recovery is outside acceptance limits.
- F2 - MS/MSD RPD Exceeds control limits.
- ** Well sampled in Dec 2018 for annual Sept 2018 event**
- E = Result exceeded calibration range

Figures



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC
QUADS OF SAUGERTIES, N.Y. (1997)
AND WOODSTOCK, N.Y. (1990)

0 500 1000 2000
SCALE: FEET
1"=2000'



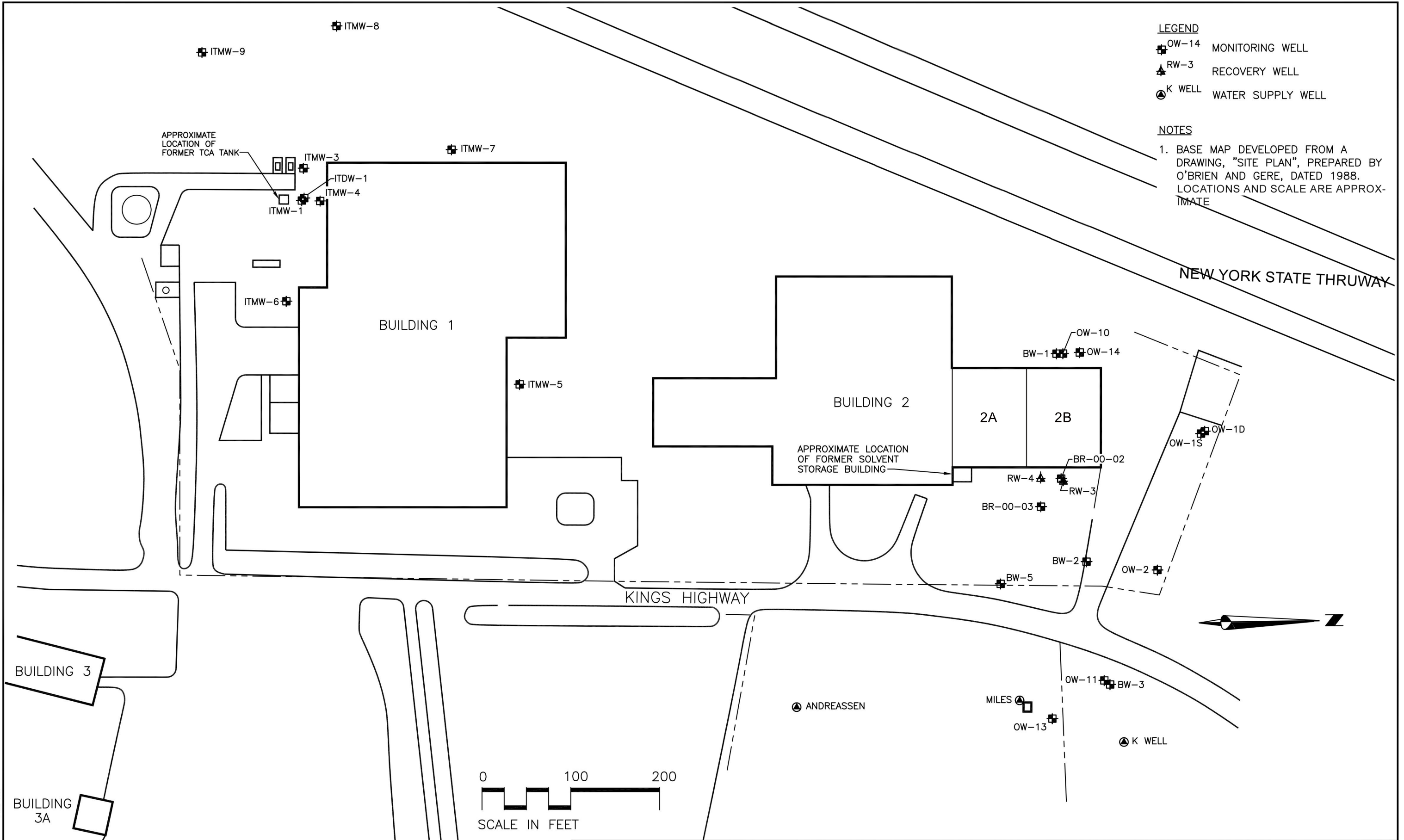
AECOM

PHILIPS ELECTRONICS NORTH AMERICA
FORMER FERROXCUBE SITE
1033 KINGS HIGHWAY
SAUGERTIES, NEW YORK

SITE LOCATION MAP

FIGURE
1

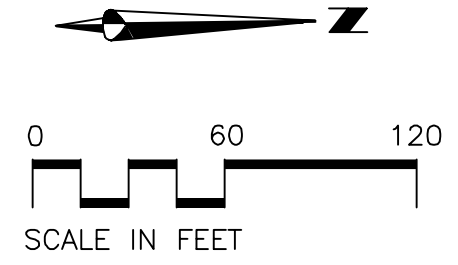
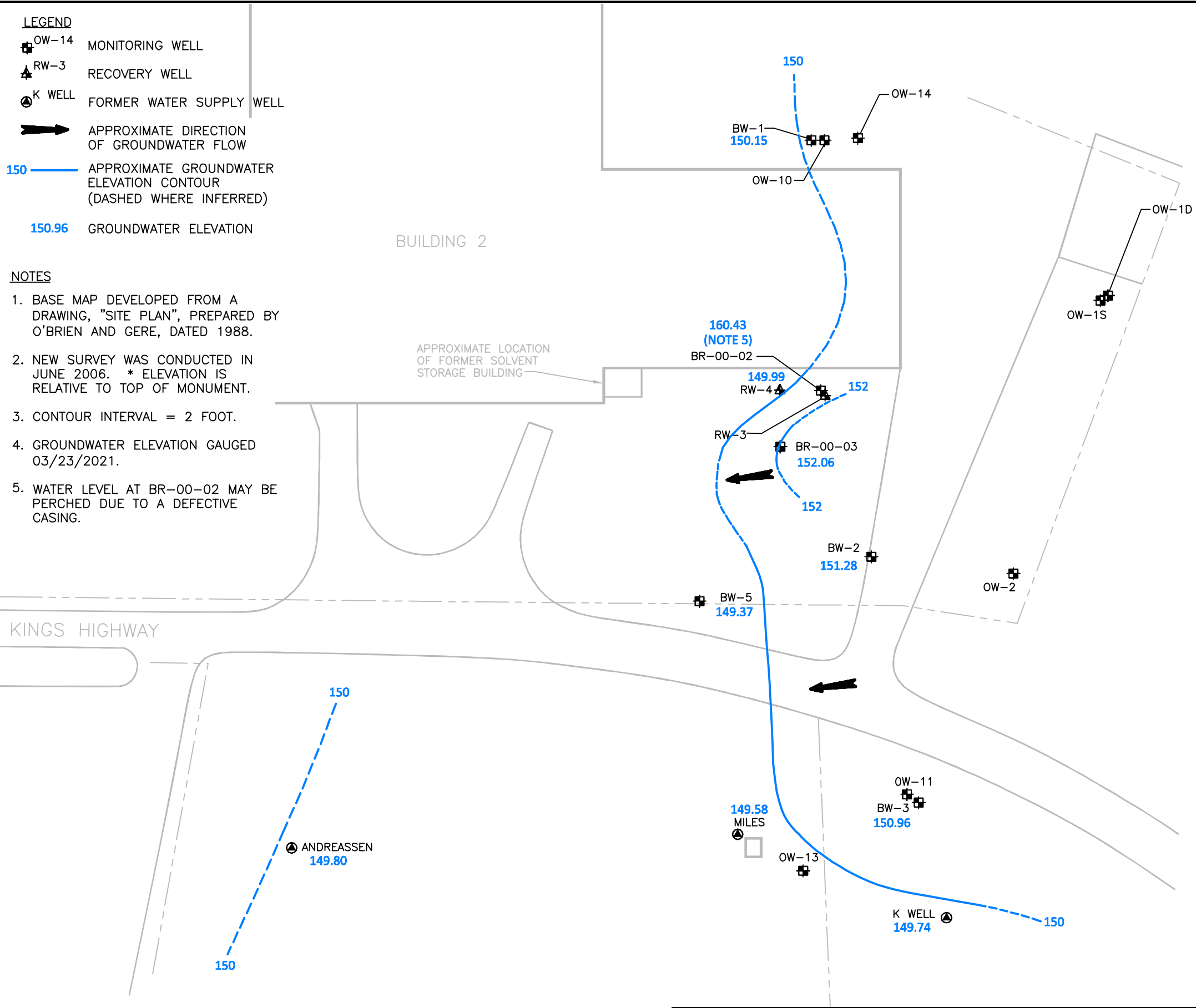
JOB No. 1006371 FILE No. L:\work\earth\Latham NY Work\Philipa\Figure 2.dwg May/14/10



SCALE AS SHOWN	AECOM	Philips Electronics North America Former Ferroxcube Site 1033 Kings Highway Saugerties, NY	Site Plan	FIGURE 2
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- LEGEND**
- OW-14 MONITORING WELL
 - RW-3 RECOVERY WELL
 - K WELL FORMER WATER SUPPLY WELL
 - APPROXIMATE DIRECTION OF GROUNDWATER FLOW
 - 150 APPROXIMATE GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
 - 150.96 GROUNDWATER ELEVATION

- NOTES**
1. BASE MAP DEVELOPED FROM A DRAWING, "SITE PLAN", PREPARED BY O'BRIEN AND GERE, DATED 1988.
 2. NEW SURVEY WAS CONDUCTED IN JUNE 2006. * ELEVATION IS RELATIVE TO TOP OF MONUMENT.
 3. CONTOUR INTERVAL = 2 FOOT.
 4. GROUNDWATER ELEVATION GAUGED 03/23/2021.
 5. WATER LEVEL AT BR-00-02 MAY BE PERCHED DUE TO A DEFECTIVE CASING.



D:\Philips Saugerties\Figure 3_June 2021.dwg Jun/30/22

LEGEND

- OW-14 MONITORING WELL
- RW-3 RECOVERY WELL
- K WELL FORMER WATER SUPPLY WELL
- BW-5 WELL NAME

- 12/20/2016 SAMPLING DATE
- 110.0 PFOS IN GROUNDWATER (ng/L)
- 23.0 PFOA IN GROUNDWATER (ng/L)
- 191.7 TOTAL PFAs IN GROUNDWATER (ng/L)
- 199 VOCs IN GROUNDWATER (µg/L)

- ND NOT DETECTED
- µg/L MICROGRAMS PER LITER
- ng/L NANOGRAMS PER LITER

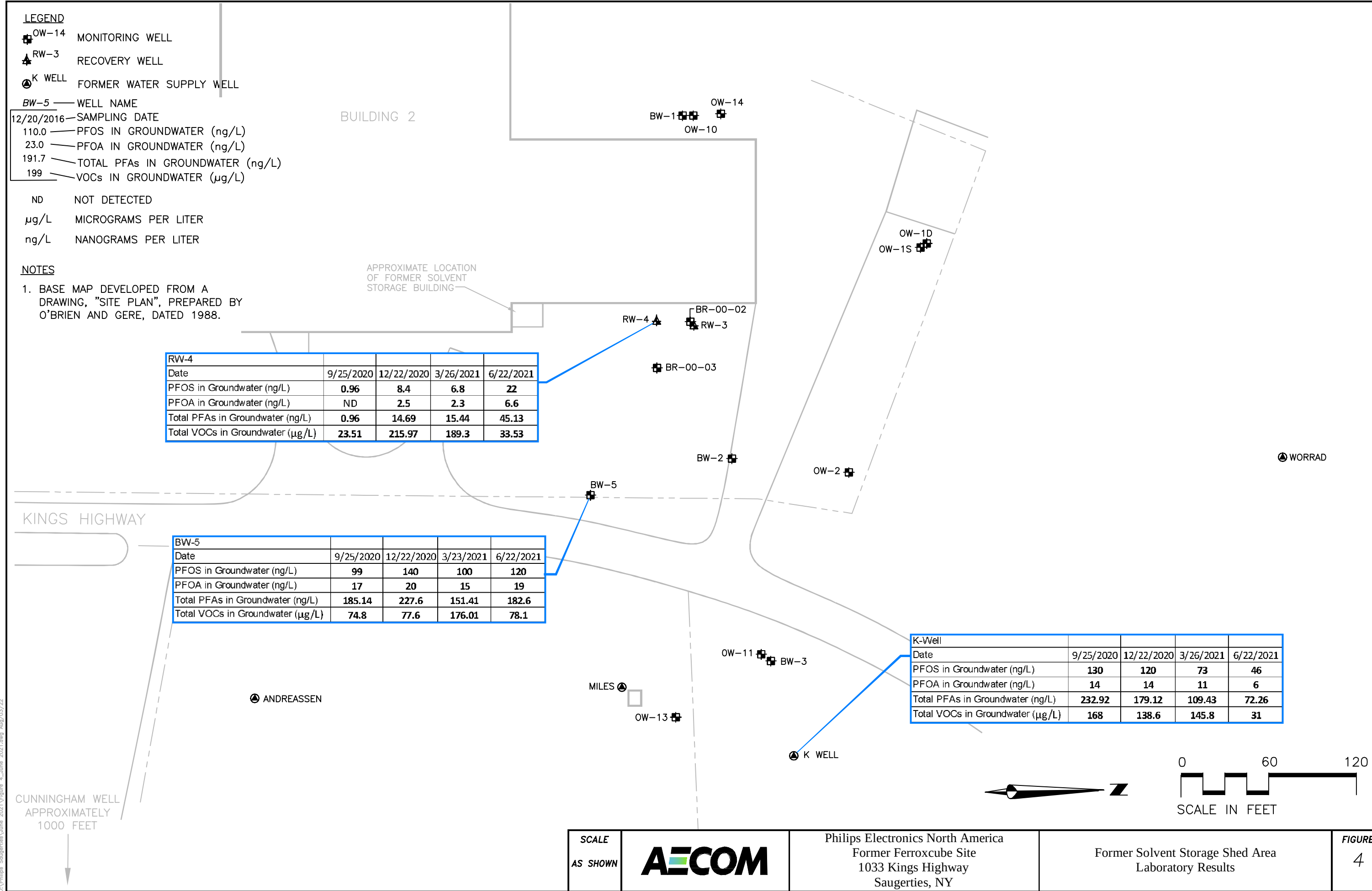
NOTES

- 1. BASE MAP DEVELOPED FROM A DRAWING, "SITE PLAN", PREPARED BY O'BRIEN AND GERE, DATED 1988.

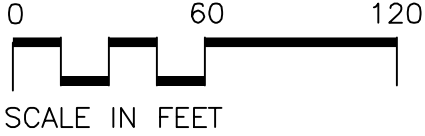
RW-4				
Date	9/25/2020	12/22/2020	3/26/2021	6/22/2021
PFOS in Groundwater (ng/L)	0.96	8.4	6.8	22
PFOA in Groundwater (ng/L)	ND	2.5	2.3	6.6
Total PFAs in Groundwater (ng/L)	0.96	14.69	15.44	45.13
Total VOCs in Groundwater (µg/L)	23.51	215.97	189.3	33.53

BW-5				
Date	9/25/2020	12/22/2020	3/23/2021	6/22/2021
PFOS in Groundwater (ng/L)	99	140	100	120
PFOA in Groundwater (ng/L)	17	20	15	19
Total PFAs in Groundwater (ng/L)	185.14	227.6	151.41	182.6
Total VOCs in Groundwater (µg/L)	74.8	77.6	176.01	78.1

K-Well				
Date	9/25/2020	12/22/2020	3/26/2021	6/22/2021
PFOS in Groundwater (ng/L)	130	120	73	46
PFOA in Groundwater (ng/L)	14	14	11	6
Total PFAs in Groundwater (ng/L)	232.92	179.12	109.43	72.26
Total VOCs in Groundwater (µg/L)	168	138.6	145.8	31

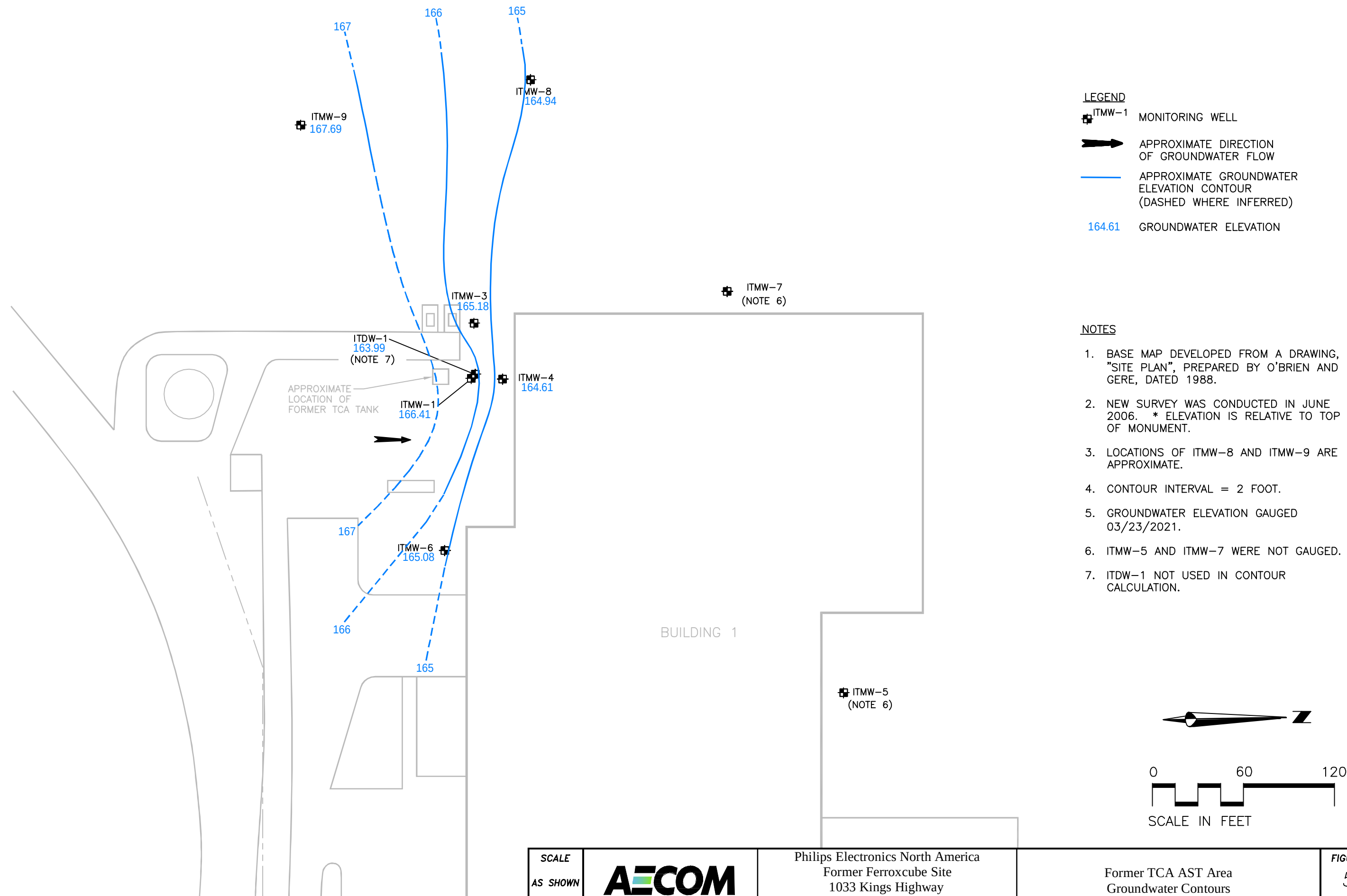


MILES



D:\Philips Saugerties\June 2021\Figure 4-June 2021.dwg Aug/03/22

D:\Philips Saugerties\Figure 5_June 2021.dwg Jun/30/22



ITMW-8				
Date	9/20/2017	12/4/2018	12/4/2019	9/24/2020
1,4-Dioxane, ug/L	NS	NS	0.17	ND
Total VOCs in Groundwater,ug/L	ND	ND	ND	ND

LEGEND

ITMW-1 MONITORING WELL

ITMW-1 WELL NAME

12/20/2016 SAMPLING DATE

340 1,4-DIOXANE IN GROUNDWATER (µg/L)

304 VOCs IN GROUNDWATER (µg/L)

µg/L MICROGRAMS PER LITER

dup DUPLICATE

ND NOT DETECTED

NS NOT SAMPLED

NOTES

1. BASE MAP DEVELOPED FROM A DRAWING, "SITE PLAN", PREPARED BY O'BRIEN AND GERE, DATED 1988.
2. LOCATIONS OF ITMW-8 AND ITMW-9 ARE APPROXIMATE.

ITMW-9				
Date	9/20/2017	12/4/2018	12/4/2019	9/24/2020
1,4-Dioxane, ug/L	NS	NS	0.16	ND
Total VOCs in Groundwater,ug/L	0.97	ND	ND	ND

ITMW-3				
Date	12/4/2018	6/11/2019	12/4/2019	9/24/2020
1,4-Dioxane, ug/L	NS	NS	49	72
Total VOCs in Groundwater,ug/L	21.9	29.5	32	52.4

ITDW-1		
Date	9/20/2017	12/4/2018
1,4-Dioxane, ug/L	NS	NS
Total VOCs in Groundwater,ug/L	ND	ND

ITMW-4				
Date	12/4/2018	6/11/2019	12/4/2019	9/24/2020
1,4-Dioxane, ug/L	NS	NS	86	110
Total VOCs in Groundwater,ug/L	166.9	74.43	391.1	305.2

ITMW-1				
Date	12/4/2018	6/11/2019	12/4/2019	9/24/2020
1,4-Dioxane, ug/L	NS	NS	340	670
Total VOCs in Groundwater,ug/L	189.8	49.3	136.3	384.4

D:\Philips Sougerties\Figure 6_December 2020.dwg, Mar/03/21

SCALE
AS SHOWN

AECOM

Philips Electronics North America
Former Ferroxcube Site
1033 Kings Highway
Saugerties, NY

Former TCA AST Area
Laboratory Results

FIGURE
6

Appendix A

Field Monitoring Parameters

Monitoring Well Purging / Sampling Form

Project Name and Number: _____

Monitoring Well Number: BW-5

Date: 03/23/21

Samplers: _____

M. T. Zaleski, J. Kosinski

Sample Number: _____

BW-5032321 QA/QC Collected? Yes - DUP/MS/MCD

Purging / Sampling Method: _____

Bladder Pump, HDPE tubing

1. L = Well Depth: _____

feet

2. D = Riser Diameter (I.D.): _____

feet

3. W = Depth to Water: _____

14.20

feet

4. C = Column of Water in Well: _____

feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. 3(V) = Target Purge Volume _____

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using _____

NTU + YSI

Parameter	Units	Readings									
Time	24 hr	<u>7:42</u>	<u>7:47</u>	<u>7:52</u>	<u>7:57</u>	<u>8:02</u>	<u>8:07</u>	<u>8:12</u>	<u>8:17</u>	<u>8:22</u>	
Water Level (0.33)	feet	<u>14.20</u>	<u>14.27</u>	<u>14.24</u>	<u>14.28</u>	<u>14.28</u>	<u>14.24</u>	<u>14.24</u>	<u>14.28</u>	<u>14.2</u>	
Volume Purged	gal	<u>0.75</u>	<u>1 gal</u>	<u>1.5 gal</u>	<u>2 gal</u>	<u>2.5 gal</u>	<u>3 gal</u>	<u>4.5 gal</u>	<u>8.75</u>	<u>5</u>	
Flow Rate	mL/min	<u>~400.0</u>	<u>~400.0</u>	<u>~400.0</u>	<u>~400</u>	<u>~400</u>	<u>~400</u>	<u>~400</u>	<u>~400</u>	<u>~400</u>	
Turbidity (+/- 10%)	NTU	<u>8.74</u>	<u>2.92</u>	<u>4.44</u>	<u>4.60</u>	<u>4.43</u>	<u>4.18</u>	<u>1.24</u>	<u>0.62</u>	<u>2.1</u>	
Dissolved Oxygen (+/- 10%)	%	<u>90.7</u>	<u>16.3</u>	<u>4.4</u>	<u>7.87</u>	<u>6.17</u>	<u>5.27</u>	<u>5.07</u>	<u>4.21</u>	<u>3.3</u>	
Dissolved Oxygen (+/- 10%)	mg/L	<u>4.45</u>	<u>1.41</u>	<u>1.04</u>	<u>0.85</u>	<u>0.66</u>	<u>0.58</u>	<u>0.55</u>	<u>0.46</u>	<u>0.3</u>	
Eh / ORP (+/- 10)	MeV	<u>61.5</u>	<u>52.6</u>	<u>32.6</u>	<u>21.4</u>	<u>12.2</u>	<u>4.1</u>	<u>-0.6</u>	<u>-3.3</u>	<u>-3.6</u>	
Specific Conductivity (+/- 3%)	mS/cm°	<u>344.1</u>	<u>344.4</u>	<u>349.6</u>	<u>341.6</u>	<u>344.4</u>	<u>349.8</u>	<u>350.2</u>	<u>350.3</u>	<u>350</u>	
Conductivity (+/- 3%)	mS/cm	<u>0.254</u>	<u>0.255</u>	<u>0.257</u>	<u>0.257</u>	<u>0.254</u>	<u>0.260</u>	<u>0.260</u>	<u>0.260</u>	<u>0.26</u>	
pH (+/- 0.1)	pH unit	<u>8.03</u>	<u>8.03</u>	<u>8.02</u>	<u>8.02</u>	<u>8.01</u>	<u>8.01</u>	<u>8.01</u>	<u>8.01</u>	<u>8.0</u>	
Temp (+/- 0.5)	C°	<u>11.4</u>	<u>10.4</u>	<u>11.1</u>	<u>11.2</u>	<u>11.4</u>	<u>11.5</u>	<u>11.6</u>	<u>11.6</u>	<u>11.6</u>	
Color	Visual	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	
Odor	Olfactory	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	

Comments: start purge 7:38

Sample @ 0840

Monitoring Well Purging / Sampling Form

Project Name and Number:

Philip - Sangermes

Monitoring Well Number:

BW-5 (cont'd) Date: 3/23/21

Samplers:

JL/M1

Sample Number:

BW-5 032321 QA/QC Collected? DUP/MS/MSD

Purging / Sampling Method:

Bladder pump + HDPE tubing

1. L = Well Depth:

_____ feet

2. D = Riser Diameter (I.D.):

_____ feet

3. W = Depth to Water:

14.20 feet

4. C = Column of Water in Well:

_____ feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

_____ gal

6. 3(V) = Target Purge Volume

_____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

NTU + YSI

Parameter

Units

Readings

Time	24 hr	<u>0827</u>	<u>0832</u>	<u>0837</u>				
Water Level (0.33)	feet	<u>14.24</u>	<u>14.24</u>	<u>14.24</u>				
Volume Purged	gal	<u>6</u>	<u>6.5</u>	<u>8 gal</u>				
Flow Rate	mL/min	<u>~400</u>	<u>~400</u>	<u>~400</u>				
Turbidity (+/- 10%)	NTU	<u>0.02</u>	<u>0.02</u>	<u>0.02</u>				
Dissolved Oxygen (+/- 10%)	%	<u>3.1</u>	<u>3.1</u>	<u>3.0</u>				
Dissolved Oxygen (+/- 10%)	mg/L	<u>0.33</u>	<u>0.33</u>	<u>0.34</u>				
Eh / ORP (+/- 10)	MeV	<u>-4.4</u>	<u>-6.4</u>	<u>-6.4</u>				
Specific Conductivity (+/- 3%)	mS/cm°	<u>350.3</u>	<u>350.2</u>	<u>350.6</u>				
Conductivity (+/- 3%)	mS/cm	<u>0.262</u>	<u>0.263</u>	<u>0.263</u>				
pH (+/- 0.1)	pH unit	<u>7.44</u>	<u>7.47</u>	<u>7.47</u>				
Temp (+/- 0.5)	C°	<u>11.4</u>	<u>11.4</u>	<u>11.4</u>				
Color	Visual	<u>clear</u>	<u>clear</u>	<u>clear</u>				
Odor	Olfactory	<u>—</u>	<u>—</u>	<u>—</u>				

Comments:

Purge finished 08:37

Sample @ 08:40

Monitoring Well Purging / Sampling Form

Project Name and Number:

Phillips / Saugerties 6054 2665

Monitoring Well Number:

R-well

Date: 03/26/21

Samplers:

M. Izdebski, J. Kosinski

Sample Number:

Kwell

QA/QC Collected? (Dup, MS, MSL)

Purging / Sampling Method:

PFAS Free Bladder Pump

1. L = Well Depth:

48.20 feet

2. D = Riser Diameter (I.D.):

feet

3. W = Depth to Water:

13.09 feet

4. C = Column of Water in Well:

feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. 3(V) = Target Purge Volume

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

NTU + YSI

Parameter	Units	Readings							
Time 09:15 Start	24 hr	0920	0925	0930	0935	0940	0945	0950	
Water Level (0.33)	feet	13.11	13.10	13.11	13.12	13.11	13.14	13.11	
Volume Purged	gal	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Flow Rate	mL/min	378	378	378	378	378	378	378	
Turbidity (+/- 10%)	NTU	24.0	23.5	21.2	18.6	18.4	15.5	17.6	
Dissolved Oxygen (+/- 10%)	%	19.4	26.8	26.77	29.27	30.6	29.8	29.81	
Dissolved Oxygen (+/- 10%)	mg/L	2.14	2.96	3.16	3.20	3.36	3.28	3.32	
Eh / ORP (+/- 10)	MeV	4.2	23.5	31.1	31.6	34.6	32.3	35.4	
Specific Conductivity (+/- 3%)	mS/cm ^c	507.6	534.7	541.6	542.8	545.0	546.2	547.0	
Conductivity (+/- 3%)	mS/cm	0.372	0.373	0.347	0.349	0.400	0.400	0.401	
pH (+/- 0.1)	pH unit	7.42	7.31	7.24	7.30	7.30	7.31	7.31	
Temp (+/- 0.5)	C°	10.9	11.0	11.0	11.0	11.0	11.0	11.0	
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Odor	Olfactory	NO	NO	NO	NO	NO	NO	NO	

Comments:

Purge finished 0956:
Sampling at 1000:

Monitoring Well Purging / Sampling Form

Project Name and Number: 60542665 Phillips / SaugertiesMonitoring Well Number: RW-4 Date: 03/26/21Samplers: M. Izdebski, J. KosinskiSample Number: RW-4 QA/QC Collected? NOPurging / Sampling Method: PFA's Free Bladder Pump

1. L = Well Depth:

~46.7 feet

2. D = Riser Diameter (I.D.):

feet

3. W = Depth to Water:

12.71 feet

4. C = Column of Water in Well:

feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. 3(V) = Target Purge Volume

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using NTU + YSI

Parameter	Units	Readings							
Time	24 hr	1110	1115	1120	1125	1130	1135	1140	
Water Level (0.33)	feet	13.00							
Volume Purged	gal	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Flow Rate	mL/min	.378	.378	.378	.378	.378	.378	.378	
Turbidity (+/- 10%)	NTU	4.56	2.16	1.18	0.99	1.42	1.68	2.02	
Dissolved Oxygen (+/- 10%)	%	5.51	7.5	7.7	10.3	11.9	13.3	18.2	
Dissolved Oxygen (+/- 10%)	mg/L	0.62	0.81	0.83	1.11	1.28	1.43	1.95	
Eh / ORP (+/- 10)	MeV	102.8	100.9	101.3	101.1	100.0	100.2	100.6	
Specific Conductivity (+/- 3%)	mS/cm ^c	562.0	560.0	558.5	557.2	556.4	556.1	556.6	
Conductivity (+/- 3%)	mS/cm	0.420	0.417	0.419	0.418	0.419	0.418	0.419	
pH (+/- 0.1)	pH unit	7.13	7.12	7.11	7.12	7.13	7.13	7.15	
Temp (+/- 0.5)	C°	11.9	11.6	11.8	11.9	12.1	12.0	12.1	
Color	Visual	clear	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	no	no	no	no	no	no	no	

Comments: Purge started 11:05
Sample time 12:15

Monitoring Well Purging / Sampling Form

Project Name and Number:

6054 2665 Phillips / Sauger-Hes

Monitoring Well Number:

RW-4

Date:

Samplers:

M. Izdebski / J. Kosinski

Sample Number:

RW-4

QA/QC Collected?

- No

Purging / Sampling Method:

PFAS Free Bladder Pump

1. L = Well Depth:

~46.7 feet

2. D = Riser Diameter (I.D.):

feet

3. W = Depth to Water:

12.71 feet

4. C = Column of Water in Well:

feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. 3(V) = Target Purge Volume

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

NTU + YSI

Parameter	Units	Readings					
Time	24 hr	1145	1150	1155	1200	1205	1210
Water Level (0.33)	feet	13.43		13.35	13.37	13.39	13.37
Volume Purged	gal	.5	.5	.5	.5	.5	.5
Flow Rate	mL/min	.378	.378	.378	.378	.378	.378
Turbidity (+/- 10%)	NTU	nmn	nmn	nmn 1.22	1.51	2.17	1.64
Dissolved Oxygen (+/- 10%)	%	16.1	14.4	17.9	16.6	15.4	15.4
Dissolved Oxygen (+/- 10%)	mg/L	1.71	1.53	1.86	1.77	1.70	1.64
Eh / ORP (+/- 10)	MeV	100.9	99.5	99.8	98.6	97.8	94.5
Specific Conductivity (+/- 3%)	mS/cm ^c	555.2	556.5	564.4	564.2	564.6	565.1
Conductivity (+/- 3%)	mS/cm	0.421	0.425	0.429	0.430	0.430	0.430
pH (+/- 0.1)	pH unit	7.13	7.14	7.15	7.14	7.13	7.14
Temp (+/- 0.5)	C°	12.3	12.6	12.4	12.4	12.5	12.5
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear
Odor	Olfactory	None	None	None	None	None	None

Comments:

Monitoring Well Purging / Sampling Form

Project Name and Number:

Phillips Surgeries

Monitoring Well Number:

RW-4

Date:

6/22/21

Samplers:

AB + RS

Sample Number:

RW-4 062221

QA/QC Collected?

—

Purging / Sampling Method:

bladder - low flow, LDPE tubing

1. L = Well Depth:

18.50 feet

2. D = Riser Diameter (I.D.):

2" feet

3. W = Depth to Water:

14.66 feet

4. C = Column of Water in Well:

— feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

— gal

6. 3(V) = Target Purge Volume

— gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI + NTU

Parameter

Units

1000g

Readings

Parameter	Units	1000g	1005	1010	1015	1020	1025	1030
Time	24 hr	14.66	15.23	15.76	—	—	—	—
Water Level (0.33)	feet	14.66	15.23	15.76	—	—	—	—
Volume Purged	gal	0	0.10	0.20	0.30	0.40	0.50	0.60
Flow Rate	mL/min	80	80	80	80	80	80	80
Turbidity (+/- 10%)	NTU	15.9	15.5	13.8	10.5	6.90	6.39	6.39
Dissolved Oxygen (+/- 10%)	%	90.8	13.9	7.2	7.4	5.4	5.6	5.6
Dissolved Oxygen (+/- 10%)	mg/L	3.75	1.40	0.75	0.72	0.54	0.56	0.58
Eh / ORP (+/- 10)	MeV	112.5	105.1	98.0	88.0	83.7	76.9	74.8
Specific Conductivity (+/- 3%)	mS/cm [°]	0.425	0.418	0.428	0.448	0.461	0.471	0.473
Conductivity (+/- 3%)	mS/cm	0.343	0.334	0.336	0.352	0.362	0.378	0.380
pH (+/- 0.1)	pH unit	6.07	6.10	6.14	6.25	6.28	6.40	6.36
Temp (+/- 0.5)	C°	14.8	15.1	13.8	13.8	14.0	14.6	14.6
Color	Visual	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	none	none	none	none	none	none	none

Comments:

Sample Time @

Flow rate @ 80 mL/min when fill/discharge
Set @ 30 secs each

★=16.6

Sample @ 1035

— WL too low to read w/ WLM

Monitoring Well Purging / Sampling Form

Project Name and Number:

Philips Saugerties

Monitoring Well Number:

BW-S

Date:

6/22/21

Samplers:

AG/RS

Sample Number:

BW-S 062221

QA/QC Collected?

MS/MSD/DUP

Purging / Sampling Method:

PFA5 free bladder pump

1. L = Well Depth:

71.62 feet

2. D = Riser Diameter (I.D.):

feet

3. W = Depth to Water:

15.69 feet

4. C = Column of Water in Well:

feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. 3(V) = Target Purge Volume

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI + NTU

Parameter

Units

Readings

Time	24 hr	1130	1135	1140	1145	1150	1155	1200
Water Level (0.33)	feet	15.69	15.8	15.8	15.8	15.8	15.8	15.8
Volume Purged	gal	0	0.15	0.30	0.45	0.60	0.75	0.90
Flow Rate	mL/min	130	130	130	130	130	130	130
Turbidity (+/- 10%)	NTU	5.41	0.52	1.12	0.45	0.57	0.36	0.27
Dissolved Oxygen (+/- 10%)	%	75.7	84.3	80.1	75.4	73.4	69.9	68.8
Dissolved Oxygen (+/- 10%)	mg/L	7.06	8.49	7.91	7.68	7.40	7.15	6.87
Eh / ORP (+/- 10)	MeV	89.5	84.4	76.7	68.6	60.2	54.9	50.5
Specific Conductivity (+/- 3%)	mS/cm ^c	0.458	0.444	0.441	0.442	0.442	0.442	0.442
Conductivity (+/- 3%)	mS/cm	0.384	0.358	0.357	0.356	0.356	0.356	0.356
pH (+/- 0.1)	pH unit	7.52	7.41	7.44	7.43	7.46	7.46	7.40
Temp (+/- 0.5)	C°	16.2	14.9	15.0	14.8	14.8	14.8	14.9
Color	Visual	clear	clear	clear	clear	clear	clear	clear
Odor	Olfactory	none	none	none	none	none	none	none

Comments:

Sample Time @ 1205

MS/MSD/DUP collected here

Monitoring Well Purging / Sampling Form

Project Name and Number:

Philips Sangerkes

Monitoring Well Number:

K-Well

Date:

6/22/21

Samplers:

AG/RS

Sample Number:

K-Well 062221

QA/QC Collected?

—

Purging / Sampling Method:

PFAS free Bladder Pump

1. L = Well Depth:

51.22 feet

2. D = Riser Diameter (I.D.):

feet

3. W = Depth to Water:

14.52 feet

4. C = Column of Water in Well:

feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. 3(V) = Target Purge Volume

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI + NTU

Parameter	Units	Readings							
Time	24 hr	1300	1305	1310	1315	1320	1325	1330	✓
Water Level (0.33)	feet	14.52	14.61	14.59	14.60	14.60	14.60	14.60	✓
Volume Purged	gal	0	0.15	0.30	0.45	0.60	0.75	0.90	
Flow Rate	mL/min	130	130	130	130	130	130	130	
Turbidity (+/- 10%)	NTU	24.2	23.0	107	106	31	24.5	23.4	
Dissolved Oxygen (+/- 10%)	%	107	9.9	4.1	3.5	3.7	3.7	3.6	
Dissolved Oxygen (+/- 10%)	mg/L	9.60	1.03	0.42	0.38	0.37	0.40	0.38	
Eh / ORP (+/- 10)	MeV	75.1	78.6	34.9	6.3	-12.0	-29.7	-34.9	
Specific Conductivity (+/- 3%)	mS/cm°	0.434	0.516	0.523	0.535	0.535	0.549	0.557	
Conductivity (+/- 3%)	mS/cm	0.344	0.394	0.400	0.409	0.409	0.420	0.428	
pH (+/- 0.1)	pH unit	7.87	7.24	7.20	7.21	7.23	7.22	7.18	
Temp (+/- 0.5)	C°	14.2	12.8	12.7	12.7	12.6	12.8	12.8	
Color	Visual	clear	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	none	none	none	none	none	none	none	

Comments:

Sample Time @ 1340

Monitoring Well Purging / Sampling Form

Project Name and Number: Philips Saugates

Monitoring Well Number: K-Well Date: 6/22/21

Samplers: AG/RS

Sample Number: K-Well 062221 QA/QC Collected? —

Purging / Sampling Method: PFA Free Bladder Pump

1. L = Well Depth: 51.22 feet
2. D = Riser Diameter (I.D.): feet
3. W = Depth to Water: 14.52 feet
4. C = Column of Water in Well: feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. 3(V) = Target Purge Volume gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using PSI + NTU

Parameter	Units	Readings						
Time	24 hr	✓ 1335						
Water Level (0.33)	feet	14.60						
Volume Purged	gal	1.05						
Flow Rate	mL/min	130						
Turbidity (+/- 10%)	NTU	22.4						
Dissolved Oxygen (+/- 10%)	%	3.7						
Dissolved Oxygen (+/- 10%)	mg/L	0.37						
Eh / ORP (+/- 10)	MeV	-38.1						
Specific Conductivity (+/- 3%)	mS/cm ^c	0.553						
Conductivity (+/- 3%)	mS/cm	0.428						
pH (+/- 0.1)	pH unit	7.12						
Temp (+/- 0.5)	C°	12.8						
Color	Visual	clear						
Odor	Olfactory	none						

Comments:

Sample Time @ ~~1340~~ 1340

Appendix B

Laboratory Reports

March 2021 Groundwater Samples

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-182440-1

Laboratory Sample Delivery Group: 480-182440-1

Client Project/Site: Philips - Saugerties, NY site

For:

AECOM Technical Services Inc.
40 British American Boulevard
Latham, New York 12110

Attn: Lindsay Mitchell



Authorized for release by:

3/31/2021 12:07:53 PM

Rebecca Jones, Project Management Assistant I

Rebecca.Jones@Eurofinset.com

Designee for

John Schove, Project Manager II

(716)504-9838

John.Schove@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Job ID: 480-182440-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-182440-1

Comments

No additional comments.

Receipt

The samples were received on 3/24/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: BW-5 032321 (480-182440-1), BW-5 032321 (480-182440-1[MS]), BW-5 032321 (480-182440-1[MSD]) and DUP (480-182440-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS

Method 537 (modified): The continuing calibration verification (CCV) associated with batch 200-165209 recovered above the upper control limit for 13C2 PFTeDA. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 537 (modified): The method blank for preparation batch 200-165191 and analytical batch 200-165209 contained Perfluoroheptanoic acid (PFHpA) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: BW-5 032321

Lab Sample ID: 480-182440-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.4		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	6.2		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	3.3		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.71	J	1.0	0.29	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	11		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	9.4		1.0	0.46	ug/L	1		8260C	Total/NA
Tetrachloroethene - DL	140	F1	2.0	0.72	ug/L	2		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.76	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	3.5	J	4.2	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	14		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.49	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.2	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.1	B	1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.4		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.9		1.7	0.38	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.76	J	1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (PFOSA)	2.6		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	100		1.7	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	15		1.7	0.36	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.7		1.7	0.40	ng/L	1		537 (modified)	Total/NA

Client Sample ID: DUP

Lab Sample ID: 480-182440-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.6		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	5.5		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	3.1		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.64	J	1.0	0.29	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	11		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	9.4		1.0	0.46	ug/L	1		8260C	Total/NA
Tetrachloroethene - DL	150		2.0	0.72	ug/L	2		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.82	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	3.7	J	4.4	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	15		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.71	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.2	J	1.8	0.21	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.1	B	1.8	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.4		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.9		1.8	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.1	J	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (PFOSA)	2.8		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	110		1.8	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	16		1.8	0.37	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.6		1.8	0.42	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EQUIPMENT BLANK 032321

Lab Sample ID: 480-182440-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.61	J	1.8	0.26	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: TRIP BLANK 032321

Lab Sample ID: 480-182440-4

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: BW-5 032321

Lab Sample ID: 480-182440-1

Date Collected: 03/23/21 08:40

Matrix: Water

Date Received: 03/24/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			03/25/21 18:27	1
1,1,1-Trichloroethane	5.4		1.0	0.82	ug/L			03/25/21 18:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/25/21 18:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	6.2		1.0	0.31	ug/L			03/25/21 18:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/25/21 18:27	1
1,1-Dichloroethane	3.3		1.0	0.38	ug/L			03/25/21 18:27	1
1,1-Dichloroethene	0.71	J	1.0	0.29	ug/L			03/25/21 18:27	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			03/25/21 18:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			03/25/21 18:27	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			03/25/21 18:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/25/21 18:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/25/21 18:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/25/21 18:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/25/21 18:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/25/21 18:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/25/21 18:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/25/21 18:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/25/21 18:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/25/21 18:27	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			03/25/21 18:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/25/21 18:27	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			03/25/21 18:27	1
Benzene	ND		1.0	0.41	ug/L			03/25/21 18:27	1
Bromobenzene	ND		1.0	0.80	ug/L			03/25/21 18:27	1
Bromochloromethane	ND		1.0	0.87	ug/L			03/25/21 18:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/25/21 18:27	1
Bromoform	ND		1.0	0.26	ug/L			03/25/21 18:27	1
Bromomethane	ND		1.0	0.69	ug/L			03/25/21 18:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/25/21 18:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/25/21 18:27	1
Chloroethane	ND		1.0	0.32	ug/L			03/25/21 18:27	1
Chloroform	ND		1.0	0.34	ug/L			03/25/21 18:27	1
Chloromethane	ND		1.0	0.35	ug/L			03/25/21 18:27	1
cis-1,2-Dichloroethene	11		1.0	0.81	ug/L			03/25/21 18:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/25/21 18:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/25/21 18:27	1
Dibromomethane	ND		1.0	0.41	ug/L			03/25/21 18:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/25/21 18:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/25/21 18:27	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			03/25/21 18:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/25/21 18:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/25/21 18:27	1
Naphthalene	ND		1.0	0.43	ug/L			03/25/21 18:27	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/25/21 18:27	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/25/21 18:27	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			03/25/21 18:27	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			03/25/21 18:27	1
p-Cymene	ND		1.0	0.31	ug/L			03/25/21 18:27	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/25/21 18:27	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: BW-5 032321

Lab Sample ID: 480-182440-1

Date Collected: 03/23/21 08:40

Matrix: Water

Date Received: 03/24/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			03/25/21 18:27	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/25/21 18:27	1
Toluene	ND		1.0	0.51	ug/L			03/25/21 18:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/25/21 18:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/25/21 18:27	1
Trichloroethene	9.4		1.0	0.46	ug/L			03/25/21 18:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/25/21 18:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/25/21 18:27	1
Xylenes, Total	ND		1.0	0.66	ug/L			03/25/21 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120		03/25/21 18:27	1
4-Bromofluorobenzene (Surr)	113		73 - 120		03/25/21 18:27	1
Toluene-d8 (Surr)	109		80 - 120		03/25/21 18:27	1
Dibromofluoromethane (Surr)	111		75 - 123		03/25/21 18:27	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	140	F1	2.0	0.72	ug/L			03/26/21 17:49	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		03/26/21 17:49	2
4-Bromofluorobenzene (Surr)	118		73 - 120		03/26/21 17:49	2
Toluene-d8 (Surr)	104		80 - 120		03/26/21 17:49	2
Dibromofluoromethane (Surr)	108		75 - 123		03/26/21 17:49	2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.33	ng/L		03/25/21 13:27	03/25/21 21:27	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.2	0.93	ng/L		03/25/21 13:27	03/25/21 21:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	0.63	ng/L		03/25/21 13:27	03/25/21 21:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	0.76	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorobutanesulfonic acid (PFBS)	0.76	J	1.7	0.21	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorobutanoic acid (PFBA)	3.5	J	4.2	0.75	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorodecanesulfonic acid (PFDS)	14		1.7	0.26	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorodecanoic acid (PFDA)	0.49	J	1.7	0.26	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.2	J	1.7	0.20	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluoroheptanoic acid (PFHpA)	3.1	B	1.7	0.20	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorohexanesulfonic acid (PFHxS)	3.4		1.7	0.26	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorohexanoic acid (PFHxA)	2.9		1.7	0.38	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorononanoic acid (PFNA)	0.76	J	1.7	0.24	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorooctanesulfonamide (PFOSA)	2.6		1.7	0.49	ng/L		03/25/21 13:27	03/25/21 21:27	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: BW-5 032321

Lab Sample ID: 480-182440-1

Date Collected: 03/23/21 08:40

Matrix: Water

Date Received: 03/24/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	100		1.7	0.25	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorooctanoic acid (PFOA)	15		1.7	0.36	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluoropentanoic acid (PFPeA)	3.7		1.7	0.40	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.53	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		03/25/21 13:27	03/25/21 21:27	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.29	ng/L		03/25/21 13:27	03/25/21 21:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	99		50 - 150				03/25/21 13:27	03/25/21 21:27	1
13C2 PFDoA	96		50 - 150				03/25/21 13:27	03/25/21 21:27	1
13C2 PFHxA	102		50 - 150				03/25/21 13:27	03/25/21 21:27	1
13C2 PFTeDA	90		50 - 150				03/25/21 13:27	03/25/21 21:27	1
13C2 PFUnA	91		50 - 150				03/25/21 13:27	03/25/21 21:27	1
13C3 PFBS	93		50 - 150				03/25/21 13:27	03/25/21 21:27	1
13C4 PFBA	94		25 - 150				03/25/21 13:27	03/25/21 21:27	1
13C4 PFHpA	102		50 - 150				03/25/21 13:27	03/25/21 21:27	1
13C4 PFOA	100		50 - 150				03/25/21 13:27	03/25/21 21:27	1
13C4 PFOS	88		50 - 150				03/25/21 13:27	03/25/21 21:27	1
13C5 PFNA	99		50 - 150				03/25/21 13:27	03/25/21 21:27	1
13C5 PFPeA	98		25 - 150				03/25/21 13:27	03/25/21 21:27	1
13C8 FOSA	89		25 - 150				03/25/21 13:27	03/25/21 21:27	1
18O2 PFHxS	93		50 - 150				03/25/21 13:27	03/25/21 21:27	1
d3-NMeFOSAA	91		50 - 150				03/25/21 13:27	03/25/21 21:27	1
d5-NEtFOSAA	89		50 - 150				03/25/21 13:27	03/25/21 21:27	1
M2-6:2 FTS	106		25 - 150				03/25/21 13:27	03/25/21 21:27	1
M2-8:2 FTS	104		25 - 150				03/25/21 13:27	03/25/21 21:27	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: DUP

Lab Sample ID: 480-182440-2

Date Collected: 03/23/21 00:00

Matrix: Water

Date Received: 03/24/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			03/25/21 18:52	1
1,1,1-Trichloroethane	5.6		1.0	0.82	ug/L			03/25/21 18:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/25/21 18:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.5		1.0	0.31	ug/L			03/25/21 18:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/25/21 18:52	1
1,1-Dichloroethane	3.1		1.0	0.38	ug/L			03/25/21 18:52	1
1,1-Dichloroethene	0.64 J		1.0	0.29	ug/L			03/25/21 18:52	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			03/25/21 18:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			03/25/21 18:52	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			03/25/21 18:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/25/21 18:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/25/21 18:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/25/21 18:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/25/21 18:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/25/21 18:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/25/21 18:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/25/21 18:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/25/21 18:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/25/21 18:52	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			03/25/21 18:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/25/21 18:52	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			03/25/21 18:52	1
Benzene	ND		1.0	0.41	ug/L			03/25/21 18:52	1
Bromobenzene	ND		1.0	0.80	ug/L			03/25/21 18:52	1
Bromochloromethane	ND		1.0	0.87	ug/L			03/25/21 18:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/25/21 18:52	1
Bromoform	ND		1.0	0.26	ug/L			03/25/21 18:52	1
Bromomethane	ND		1.0	0.69	ug/L			03/25/21 18:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/25/21 18:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/25/21 18:52	1
Chloroethane	ND		1.0	0.32	ug/L			03/25/21 18:52	1
Chloroform	ND		1.0	0.34	ug/L			03/25/21 18:52	1
Chloromethane	ND		1.0	0.35	ug/L			03/25/21 18:52	1
cis-1,2-Dichloroethene	11		1.0	0.81	ug/L			03/25/21 18:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/25/21 18:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/25/21 18:52	1
Dibromomethane	ND		1.0	0.41	ug/L			03/25/21 18:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/25/21 18:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/25/21 18:52	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			03/25/21 18:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/25/21 18:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/25/21 18:52	1
Naphthalene	ND		1.0	0.43	ug/L			03/25/21 18:52	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/25/21 18:52	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/25/21 18:52	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			03/25/21 18:52	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			03/25/21 18:52	1
p-Cymene	ND		1.0	0.31	ug/L			03/25/21 18:52	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/25/21 18:52	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: DUP

Lab Sample ID: 480-182440-2

Date Collected: 03/23/21 00:00

Matrix: Water

Date Received: 03/24/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			03/25/21 18:52	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/25/21 18:52	1
Toluene	ND		1.0	0.51	ug/L			03/25/21 18:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/25/21 18:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/25/21 18:52	1
Trichloroethene	9.4		1.0	0.46	ug/L			03/25/21 18:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/25/21 18:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/25/21 18:52	1
Xylenes, Total	ND		1.0	0.66	ug/L			03/25/21 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		03/25/21 18:52	1
4-Bromofluorobenzene (Surr)	106		73 - 120		03/25/21 18:52	1
Toluene-d8 (Surr)	105		80 - 120		03/25/21 18:52	1
Dibromofluoromethane (Surr)	109		75 - 123		03/25/21 18:52	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	150		2.0	0.72	ug/L			03/26/21 18:13	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		03/26/21 18:13	2
4-Bromofluorobenzene (Surr)	119		73 - 120		03/26/21 18:13	2
Toluene-d8 (Surr)	102		80 - 120		03/26/21 18:13	2
Dibromofluoromethane (Surr)	102		75 - 123		03/26/21 18:13	2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8	0.34	ng/L		03/25/21 13:27	03/25/21 21:51	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.4	0.97	ng/L		03/25/21 13:27	03/25/21 21:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	0.65	ng/L		03/25/21 13:27	03/25/21 21:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	0.80	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorobutanesulfonic acid (PFBS)	0.82	J	1.8	0.22	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorobutanoic acid (PFBA)	3.7	J	4.4	0.79	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorodecanesulfonic acid (PFDS)	15		1.8	0.27	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorodecanoic acid (PFDA)	0.71	J	1.8	0.27	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.34	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.2	J	1.8	0.21	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluoroheptanoic acid (PFHpA)	3.1	B	1.8	0.21	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorohexanesulfonic acid (PFHxS)	3.4		1.8	0.27	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorohexanoic acid (PFHxA)	2.9		1.8	0.40	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorononanoic acid (PFNA)	1.1	J	1.8	0.25	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorooctanesulfonamide (PFOSA)	2.8		1.8	0.51	ng/L		03/25/21 13:27	03/25/21 21:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: DUP

Lab Sample ID: 480-182440-2

Date Collected: 03/23/21 00:00

Matrix: Water

Date Received: 03/24/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	110		1.8	0.26	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorooctanoic acid (PFOA)	16		1.8	0.37	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluoropentanoic acid (PFPeA)	3.6		1.8	0.42	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.56	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.38	ng/L		03/25/21 13:27	03/25/21 21:51	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.30	ng/L		03/25/21 13:27	03/25/21 21:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	94		50 - 150				03/25/21 13:27	03/25/21 21:51	1
13C2 PFDoA	88		50 - 150				03/25/21 13:27	03/25/21 21:51	1
13C2 PFHxA	96		50 - 150				03/25/21 13:27	03/25/21 21:51	1
13C2 PFTeDA	84		50 - 150				03/25/21 13:27	03/25/21 21:51	1
13C2 PFUnA	93		50 - 150				03/25/21 13:27	03/25/21 21:51	1
13C3 PFBS	91		50 - 150				03/25/21 13:27	03/25/21 21:51	1
13C4 PFBA	89		25 - 150				03/25/21 13:27	03/25/21 21:51	1
13C4 PFHpA	97		50 - 150				03/25/21 13:27	03/25/21 21:51	1
13C4 PFOA	94		50 - 150				03/25/21 13:27	03/25/21 21:51	1
13C4 PFOS	87		50 - 150				03/25/21 13:27	03/25/21 21:51	1
13C5 PFNA	96		50 - 150				03/25/21 13:27	03/25/21 21:51	1
13C5 PFPeA	92		25 - 150				03/25/21 13:27	03/25/21 21:51	1
13C8 FOSA	84		25 - 150				03/25/21 13:27	03/25/21 21:51	1
18O2 PFHxS	92		50 - 150				03/25/21 13:27	03/25/21 21:51	1
d3-NMeFOSAA	85		50 - 150				03/25/21 13:27	03/25/21 21:51	1
d5-NEtFOSAA	91		50 - 150				03/25/21 13:27	03/25/21 21:51	1
M2-6:2 FTS	96		25 - 150				03/25/21 13:27	03/25/21 21:51	1
M2-8:2 FTS	98		25 - 150				03/25/21 13:27	03/25/21 21:51	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: EQUIPMENT BLANK 032321

Lab Sample ID: 480-182440-3

Date Collected: 03/23/21 09:30

Matrix: Water

Date Received: 03/24/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8	0.34	ng/L		03/25/21 13:27	03/25/21 22:00	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.4	0.97	ng/L		03/25/21 13:27	03/25/21 22:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	0.65	ng/L		03/25/21 13:27	03/25/21 22:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	0.80	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.22	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorobutanoic acid (PFBA)	ND		4.4	0.79	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.27	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.27	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.34	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.21	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.21	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.27	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.40	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.25	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.51	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorooctanesulfonic acid (PFOS)	0.61	J	1.8	0.26	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.37	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.42	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.56	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.38	ng/L		03/25/21 13:27	03/25/21 22:00	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.30	ng/L		03/25/21 13:27	03/25/21 22:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	97		50 - 150	03/25/21 13:27	03/25/21 22:00	1
13C2 PFDoA	93		50 - 150	03/25/21 13:27	03/25/21 22:00	1
13C2 PFHxA	100		50 - 150	03/25/21 13:27	03/25/21 22:00	1
13C2 PFTeDA	88		50 - 150	03/25/21 13:27	03/25/21 22:00	1
13C2 PFUnA	90		50 - 150	03/25/21 13:27	03/25/21 22:00	1
13C3 PFBS	92		50 - 150	03/25/21 13:27	03/25/21 22:00	1
13C4 PFBA	107		25 - 150	03/25/21 13:27	03/25/21 22:00	1
13C4 PFHpA	104		50 - 150	03/25/21 13:27	03/25/21 22:00	1
13C4 PFOA	96		50 - 150	03/25/21 13:27	03/25/21 22:00	1
13C4 PFOS	92		50 - 150	03/25/21 13:27	03/25/21 22:00	1
13C5 PFNA	96		50 - 150	03/25/21 13:27	03/25/21 22:00	1
13C5 PFPeA	105		25 - 150	03/25/21 13:27	03/25/21 22:00	1
13C8 FOSA	73		25 - 150	03/25/21 13:27	03/25/21 22:00	1
18O2 PFHxS	94		50 - 150	03/25/21 13:27	03/25/21 22:00	1
d3-NMeFOSAA	93		50 - 150	03/25/21 13:27	03/25/21 22:00	1
d5-NEtFOSAA	86		50 - 150	03/25/21 13:27	03/25/21 22:00	1
M2-6:2 FTS	97		25 - 150	03/25/21 13:27	03/25/21 22:00	1
M2-8:2 FTS	99		25 - 150	03/25/21 13:27	03/25/21 22:00	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: TRIP BLANK 032321

Lab Sample ID: 480-182440-4

Date Collected: 03/23/21 00:00

Matrix: Water

Date Received: 03/24/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			03/25/21 19:16	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/25/21 19:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/25/21 19:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/25/21 19:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/25/21 19:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/25/21 19:16	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/25/21 19:16	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			03/25/21 19:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			03/25/21 19:16	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			03/25/21 19:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/25/21 19:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/25/21 19:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/25/21 19:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/25/21 19:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/25/21 19:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/25/21 19:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/25/21 19:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/25/21 19:16	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/25/21 19:16	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			03/25/21 19:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/25/21 19:16	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			03/25/21 19:16	1
Benzene	ND		1.0	0.41	ug/L			03/25/21 19:16	1
Bromobenzene	ND		1.0	0.80	ug/L			03/25/21 19:16	1
Bromochloromethane	ND		1.0	0.87	ug/L			03/25/21 19:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/25/21 19:16	1
Bromoform	ND		1.0	0.26	ug/L			03/25/21 19:16	1
Bromomethane	ND		1.0	0.69	ug/L			03/25/21 19:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/25/21 19:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/25/21 19:16	1
Chloroethane	ND		1.0	0.32	ug/L			03/25/21 19:16	1
Chloroform	ND		1.0	0.34	ug/L			03/25/21 19:16	1
Chloromethane	ND		1.0	0.35	ug/L			03/25/21 19:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/25/21 19:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/25/21 19:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/25/21 19:16	1
Dibromomethane	ND		1.0	0.41	ug/L			03/25/21 19:16	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/25/21 19:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/25/21 19:16	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			03/25/21 19:16	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/25/21 19:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/25/21 19:16	1
Naphthalene	ND		1.0	0.43	ug/L			03/25/21 19:16	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/25/21 19:16	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/25/21 19:16	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			03/25/21 19:16	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			03/25/21 19:16	1
p-Cymene	ND		1.0	0.31	ug/L			03/25/21 19:16	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/25/21 19:16	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: TRIP BLANK 032321

Lab Sample ID: 480-182440-4

Date Collected: 03/23/21 00:00

Matrix: Water

Date Received: 03/24/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			03/25/21 19:16	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/25/21 19:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/25/21 19:16	1
Toluene	ND		1.0	0.51	ug/L			03/25/21 19:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/25/21 19:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/25/21 19:16	1
Trichloroethene	ND		1.0	0.46	ug/L			03/25/21 19:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/25/21 19:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/25/21 19:16	1
Xylenes, Total	ND		1.0	0.66	ug/L			03/25/21 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		03/25/21 19:16	1
4-Bromofluorobenzene (Surr)	111		73 - 120		03/25/21 19:16	1
Toluene-d8 (Surr)	108		80 - 120		03/25/21 19:16	1
Dibromofluoromethane (Surr)	113		75 - 123		03/25/21 19:16	1

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	TOL (80-120)	DBFM (75-123)
480-182440-1	BW-5 032321	116	113	109	111
480-182440-1 - DL	BW-5 032321	104	118	104	108
480-182440-1 MS	BW-5 032321	112	104	105	108
480-182440-1 MS - DL	BW-5 032321	105	116	103	108
480-182440-1 MSD	BW-5 032321	113	107	107	109
480-182440-1 MSD - DL	BW-5 032321	103	116	102	106
480-182440-2	DUP	110	106	105	109
480-182440-2 - DL	DUP	103	119	102	102
480-182440-4	TRIP BLANK 032321	113	111	108	113
LCS 480-573731/5	Lab Control Sample	106	108	105	106
LCS 480-573934/5	Lab Control Sample	112	115	101	116
MB 480-573731/7	Method Blank	107	104	103	101
MB 480-573934/7	Method Blank	109	120	103	114

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDA (50-150)	PFDoA (50-150)	PFHxA (50-150)	PFTDA (50-150)	PFUnA (50-150)	C3PFBS (50-150)	PFBA (25-150)	C4PFHA (50-150)
480-182440-1	BW-5 032321	99	96	102	90	91	93	94	102
480-182440-1 MS	BW-5 032321	95	84	98	84	89	91	91	97
480-182440-1 MSD	BW-5 032321	96	83	101	83	89	95	95	100
480-182440-2	DUP	94	88	96	84	93	91	89	97
480-182440-3	EQUIPMENT BLANK 032321	97	93	100	88	90	92	107	104
LCS 200-165191/2-A	Lab Control Sample	101	99	102	91	97	96	110	106
MB 200-165191/1-A	Method Blank	94	87	100	79	95	93	101	98

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFPeA (25-150)	PFOSA (25-150)	PFHxS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)
480-182440-1	BW-5 032321	100	88	99	98	89	93	91	89
480-182440-1 MS	BW-5 032321	94	84	94	94	87	90	90	86
480-182440-1 MSD	BW-5 032321	97	84	98	97	84	92	89	93
480-182440-2	DUP	94	87	96	92	84	92	85	91
480-182440-3	EQUIPMENT BLANK 032321	96	92	96	105	73	94	93	86
LCS 200-165191/2-A	Lab Control Sample	97	93	98	106	76	94	95	96
MB 200-165191/1-A	Method Blank	92	86	92	100	80	88	87	87

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-182440-1	BW-5 032321	106	104
480-182440-1 MS	BW-5 032321	94	99
480-182440-1 MSD	BW-5 032321	102	97
480-182440-2	DUP	96	98
480-182440-3	EQUIPMENT BLANK 032321	97	99
LCS 200-165191/2-A	Lab Control Sample	99	103
MB 200-165191/1-A	Method Blank	92	95

Surrogate Legend

PFDA = 13C2 PFDA
PFDoA = 13C2 PFDoA
PFHxA = 13C2 PFHxA
PFTDA = 13C2 PFTeDA
PFUnA = 13C2 PFUnA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFPeA = 13C5 PFPeA
PFOSA = 13C8 FOSA
PFHxS = 18O2 PFHxS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-573731/7

Matrix: Water

Analysis Batch: 573731

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			03/25/21 10:58	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/25/21 10:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/25/21 10:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/25/21 10:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/25/21 10:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/25/21 10:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/25/21 10:58	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			03/25/21 10:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			03/25/21 10:58	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			03/25/21 10:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/25/21 10:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/25/21 10:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/25/21 10:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/25/21 10:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/25/21 10:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/25/21 10:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/25/21 10:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/25/21 10:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/25/21 10:58	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			03/25/21 10:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/25/21 10:58	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			03/25/21 10:58	1
Benzene	ND		1.0	0.41	ug/L			03/25/21 10:58	1
Bromobenzene	ND		1.0	0.80	ug/L			03/25/21 10:58	1
Bromochloromethane	ND		1.0	0.87	ug/L			03/25/21 10:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/25/21 10:58	1
Bromoform	ND		1.0	0.26	ug/L			03/25/21 10:58	1
Bromomethane	ND		1.0	0.69	ug/L			03/25/21 10:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/25/21 10:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/25/21 10:58	1
Chloroethane	ND		1.0	0.32	ug/L			03/25/21 10:58	1
Chloroform	ND		1.0	0.34	ug/L			03/25/21 10:58	1
Chloromethane	ND		1.0	0.35	ug/L			03/25/21 10:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/25/21 10:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/25/21 10:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/25/21 10:58	1
Dibromomethane	ND		1.0	0.41	ug/L			03/25/21 10:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/25/21 10:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/25/21 10:58	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			03/25/21 10:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/25/21 10:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/25/21 10:58	1
Naphthalene	ND		1.0	0.43	ug/L			03/25/21 10:58	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/25/21 10:58	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/25/21 10:58	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			03/25/21 10:58	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			03/25/21 10:58	1
p-Cymene	ND		1.0	0.31	ug/L			03/25/21 10:58	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-573731/7

Matrix: Water

Analysis Batch: 573731

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/25/21 10:58	1
Styrene	ND		1.0	0.73	ug/L			03/25/21 10:58	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/25/21 10:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/25/21 10:58	1
Toluene	ND		1.0	0.51	ug/L			03/25/21 10:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/25/21 10:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/25/21 10:58	1
Trichloroethene	ND		1.0	0.46	ug/L			03/25/21 10:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/25/21 10:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/25/21 10:58	1
Xylenes, Total	ND		1.0	0.66	ug/L			03/25/21 10:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		03/25/21 10:58	1
4-Bromofluorobenzene (Surr)	104		73 - 120		03/25/21 10:58	1
Toluene-d8 (Surr)	103		80 - 120		03/25/21 10:58	1
Dibromofluoromethane (Surr)	101		75 - 123		03/25/21 10:58	1

Lab Sample ID: LCS 480-573731/5

Matrix: Water

Analysis Batch: 573731

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	23.3		ug/L		93	80 - 120
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.0		ug/L		96	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.7		ug/L		91	61 - 148
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	76 - 122
1,1-Dichloroethane	25.0	21.9		ug/L		88	77 - 120
1,1-Dichloroethene	25.0	21.9		ug/L		88	66 - 127
1,1-Dichloropropene	25.0	21.6		ug/L		86	72 - 122
1,2,3-Trichlorobenzene	25.0	24.2		ug/L		97	75 - 123
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	68 - 122
1,2,4-Trichlorobenzene	25.0	24.3		ug/L		97	79 - 122
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		94	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	20.4		ug/L		82	56 - 134
1,2-Dibromoethane	25.0	24.8		ug/L		99	77 - 120
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	23.5		ug/L		94	75 - 120
1,2-Dichloropropane	25.0	22.6		ug/L		90	76 - 120
1,3,5-Trimethylbenzene	25.0	23.2		ug/L		93	77 - 121
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	77 - 120
1,3-Dichloropropane	25.0	24.2		ug/L		97	75 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		97	80 - 120
2,2-Dichloropropane	25.0	20.5		ug/L		82	63 - 136
Benzene	25.0	21.7		ug/L		87	71 - 124
Bromobenzene	25.0	24.3		ug/L		97	78 - 120
Bromochloromethane	25.0	22.7		ug/L		91	72 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-573731/5

Matrix: Water

Analysis Batch: 573731

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	25.0	22.8		ug/L		91	80 - 122
Bromoform	25.0	24.1		ug/L		96	61 - 132
Bromomethane	25.0	21.2		ug/L		85	55 - 144
Carbon tetrachloride	25.0	22.6		ug/L		91	72 - 134
Chlorobenzene	25.0	23.1		ug/L		93	80 - 120
Chloroethane	25.0	20.7		ug/L		83	69 - 136
Chloroform	25.0	22.1		ug/L		88	73 - 127
Chloromethane	25.0	22.9		ug/L		92	68 - 124
cis-1,2-Dichloroethene	25.0	21.9		ug/L		87	74 - 124
cis-1,3-Dichloropropene	25.0	22.8		ug/L		91	74 - 124
Dibromochloromethane	25.0	24.2		ug/L		97	75 - 125
Dibromomethane	25.0	23.3		ug/L		93	76 - 127
Dichlorodifluoromethane	25.0	25.0		ug/L		100	59 - 135
Ethylbenzene	25.0	23.1		ug/L		92	77 - 123
Hexachlorobutadiene	25.0	23.6		ug/L		94	68 - 131
Isopropylbenzene	25.0	23.0		ug/L		92	77 - 122
Methylene Chloride	25.0	20.7		ug/L		83	75 - 124
Naphthalene	25.0	23.5		ug/L		94	66 - 125
n-Butylbenzene	25.0	24.3		ug/L		97	71 - 128
N-Propylbenzene	25.0	23.5		ug/L		94	75 - 127
o-Chlorotoluene	25.0	23.1		ug/L		92	76 - 121
p-Chlorotoluene	25.0	24.3		ug/L		97	77 - 121
p-Cymene	25.0	23.9		ug/L		96	73 - 120
sec-Butylbenzene	25.0	24.1		ug/L		96	74 - 127
Styrene	25.0	23.4		ug/L		94	80 - 120
tert-Butylbenzene	25.0	23.9		ug/L		95	75 - 123
Tetrachloroethene	25.0	22.0		ug/L		88	74 - 122
Toluene	25.0	22.7		ug/L		91	80 - 122
trans-1,2-Dichloroethene	25.0	22.0		ug/L		88	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
Trichloroethene	25.0	22.6		ug/L		90	74 - 123
Trichlorofluoromethane	25.0	25.4		ug/L		102	62 - 150
Vinyl chloride	25.0	24.4		ug/L		98	65 - 133
Xylenes, Total	50.0	45.7		ug/L		91	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Toluene-d8 (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	106		75 - 123

Lab Sample ID: 480-182440-1 MS

Matrix: Water

Analysis Batch: 573731

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25.0	27.0		ug/L		108	80 - 120
1,1,1-Trichloroethane	5.4		25.0	34.2		ug/L		115	73 - 126

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-182440-1 MS

Matrix: Water

Analysis Batch: 573731

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	ND		25.0	26.9		ug/L		108	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	6.2		25.0	31.7		ug/L		102	61 - 148
1,1,2-Trichloroethane	ND		25.0	25.9		ug/L		104	76 - 122
1,1-Dichloroethane	3.3		25.0	30.1		ug/L		107	77 - 120
1,1-Dichloroethene	0.71	J	25.0	28.1		ug/L		109	66 - 127
1,1-Dichloropropene	ND		25.0	26.8		ug/L		107	72 - 122
1,2,3-Trichlorobenzene	ND		25.0	26.0		ug/L		104	75 - 123
1,2,3-Trichloropropane	ND		25.0	27.1		ug/L		108	68 - 122
1,2,4-Trichlorobenzene	ND		25.0	25.7		ug/L		103	79 - 122
1,2,4-Trimethylbenzene	ND		25.0	26.4		ug/L		106	76 - 121
1,2-Dibromo-3-Chloropropane	ND		25.0	25.7		ug/L		103	56 - 134
1,2-Dibromoethane	ND		25.0	26.6		ug/L		106	77 - 120
1,2-Dichlorobenzene	ND		25.0	26.7		ug/L		107	80 - 124
1,2-Dichloroethane	ND		25.0	27.7		ug/L		111	75 - 120
1,2-Dichloropropane	ND		25.0	26.7		ug/L		107	76 - 120
1,3,5-Trimethylbenzene	ND		25.0	25.8		ug/L		103	77 - 121
1,3-Dichlorobenzene	ND		25.0	26.6		ug/L		107	77 - 120
1,3-Dichloropropane	ND		25.0	26.4		ug/L		106	75 - 120
1,4-Dichlorobenzene	ND		25.0	25.7		ug/L		103	78 - 124
2,2-Dichloropropane	ND		25.0	24.4		ug/L		98	63 - 136
Benzene	ND		25.0	26.2		ug/L		105	71 - 124
Bromobenzene	ND		25.0	26.6		ug/L		106	78 - 120
Bromochloromethane	ND		25.0	27.1		ug/L		108	72 - 130
Bromodichloromethane	ND		25.0	26.1		ug/L		104	80 - 122
Bromoform	ND		25.0	24.3		ug/L		97	61 - 132
Bromomethane	ND		25.0	29.2		ug/L		117	55 - 144
Carbon tetrachloride	ND		25.0	28.0		ug/L		112	72 - 134
Chlorobenzene	ND		25.0	25.5		ug/L		102	80 - 120
Chloroethane	ND		25.0	27.1		ug/L		108	69 - 136
Chloroform	ND		25.0	27.2		ug/L		109	73 - 127
Chloromethane	ND		25.0	31.1		ug/L		124	68 - 124
cis-1,2-Dichloroethene	11		25.0	38.0		ug/L		106	74 - 124
cis-1,3-Dichloropropene	ND		25.0	24.7		ug/L		99	74 - 124
Dibromochloromethane	ND		25.0	26.4		ug/L		106	75 - 125
Dibromomethane	ND		25.0	27.3		ug/L		109	76 - 127
Dichlorodifluoromethane	ND		25.0	31.2		ug/L		125	59 - 135
Ethylbenzene	ND		25.0	25.2		ug/L		101	77 - 123
Hexachlorobutadiene	ND		25.0	24.3		ug/L		97	68 - 131
Isopropylbenzene	ND		25.0	26.6		ug/L		107	77 - 122
Methylene Chloride	ND		25.0	25.8		ug/L		103	75 - 124
Naphthalene	ND		25.0	26.9		ug/L		107	66 - 125
n-Butylbenzene	ND		25.0	27.1		ug/L		108	71 - 128
N-Propylbenzene	ND		25.0	25.9		ug/L		104	75 - 127
o-Chlorotoluene	ND		25.0	26.7		ug/L		107	76 - 121
p-Chlorotoluene	ND		25.0	25.3		ug/L		101	77 - 121
p-Cymene	ND		25.0	26.8		ug/L		107	73 - 120
sec-Butylbenzene	ND		25.0	26.7		ug/L		107	74 - 127
Styrene	ND		25.0	25.3		ug/L		101	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-182440-1 MS

Matrix: Water

Analysis Batch: 573731

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	ND		25.0	27.0		ug/L		108	75 - 123
Toluene	ND		25.0	26.0		ug/L		104	80 - 122
trans-1,2-Dichloroethene	ND		25.0	27.1		ug/L		109	73 - 127
trans-1,3-Dichloropropene	ND		25.0	25.3		ug/L		101	80 - 120
Trichloroethene	9.4		25.0	35.4		ug/L		104	74 - 123
Trichlorofluoromethane	ND		25.0	31.7		ug/L		127	62 - 150
Vinyl chloride	ND		25.0	32.9		ug/L		132	65 - 133
Xylenes, Total	ND		50.0	51.4		ug/L		103	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	108		75 - 123

Lab Sample ID: 480-182440-1 MSD

Matrix: Water

Analysis Batch: 573731

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	28.2		ug/L		113	80 - 120	5	20
1,1,1-Trichloroethane	5.4		25.0	36.1		ug/L		123	73 - 126	6	15
1,1,2,2-Tetrachloroethane	ND		25.0	27.4		ug/L		110	76 - 120	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	6.2		25.0	33.9		ug/L		111	61 - 148	7	20
1,1,2-Trichloroethane	ND		25.0	28.4		ug/L		113	76 - 122	9	15
1,1-Dichloroethane	3.3		25.0	31.9		ug/L		114	77 - 120	6	20
1,1-Dichloroethene	0.71	J	25.0	29.3		ug/L		114	66 - 127	4	16
1,1-Dichloropropene	ND		25.0	28.5		ug/L		114	72 - 122	6	20
1,2,3-Trichlorobenzene	ND		25.0	28.9		ug/L		116	75 - 123	10	20
1,2,3-Trichloropropane	ND		25.0	27.7		ug/L		111	68 - 122	2	14
1,2,4-Trichlorobenzene	ND		25.0	28.5		ug/L		114	79 - 122	10	20
1,2,4-Trimethylbenzene	ND		25.0	26.2		ug/L		105	76 - 121	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	23.9		ug/L		95	56 - 134	7	15
1,2-Dibromoethane	ND		25.0	28.8		ug/L		115	77 - 120	8	15
1,2-Dichlorobenzene	ND		25.0	27.5		ug/L		110	80 - 124	3	20
1,2-Dichloroethane	ND		25.0	29.4		ug/L		118	75 - 120	6	20
1,2-Dichloropropane	ND		25.0	28.8		ug/L		115	76 - 120	8	20
1,3,5-Trimethylbenzene	ND		25.0	25.9		ug/L		104	77 - 121	1	20
1,3-Dichlorobenzene	ND		25.0	27.6		ug/L		110	77 - 120	4	20
1,3-Dichloropropane	ND		25.0	28.8		ug/L		115	75 - 120	8	20
1,4-Dichlorobenzene	ND		25.0	27.0		ug/L		108	78 - 124	5	20
2,2-Dichloropropane	ND		25.0	24.6		ug/L		98	63 - 136	1	20
Benzene	ND		25.0	28.4		ug/L		114	71 - 124	8	13
Bromobenzene	ND		25.0	28.6		ug/L		114	78 - 120	7	15
Bromochloromethane	ND		25.0	28.9		ug/L		115	72 - 130	6	15
Bromodichloromethane	ND		25.0	28.7		ug/L		115	80 - 122	10	15
Bromoform	ND		25.0	26.2		ug/L		105	61 - 132	8	15
Bromomethane	ND		25.0	27.2		ug/L		109	55 - 144	7	15

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-182440-1 MSD

Matrix: Water

Analysis Batch: 573731

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon tetrachloride	ND		25.0	29.9		ug/L		120	72 - 134	7	15
Chlorobenzene	ND		25.0	27.4		ug/L		110	80 - 120	7	25
Chloroethane	ND		25.0	26.2		ug/L		105	69 - 136	3	15
Chloroform	ND		25.0	28.5		ug/L		114	73 - 127	5	20
Chloromethane	ND		25.0	29.6		ug/L		118	68 - 124	5	15
cis-1,2-Dichloroethene	11		25.0	39.1		ug/L		111	74 - 124	3	15
cis-1,3-Dichloropropene	ND		25.0	27.5		ug/L		110	74 - 124	11	15
Dibromochloromethane	ND		25.0	28.1		ug/L		112	75 - 125	6	15
Dibromomethane	ND		25.0	28.9		ug/L		116	76 - 127	6	15
Dichlorodifluoromethane	ND		25.0	30.7		ug/L		123	59 - 135	2	20
Ethylbenzene	ND		25.0	27.2		ug/L		109	77 - 123	8	15
Hexachlorobutadiene	ND		25.0	29.4		ug/L		118	68 - 131	19	20
Isopropylbenzene	ND		25.0	26.6		ug/L		107	77 - 122	0	20
Methylene Chloride	ND		25.0	27.6		ug/L		110	75 - 124	6	15
Naphthalene	ND		25.0	26.9		ug/L		108	66 - 125	0	20
n-Butylbenzene	ND		25.0	26.8		ug/L		107	71 - 128	1	15
N-Propylbenzene	ND		25.0	25.6		ug/L		103	75 - 127	1	15
o-Chlorotoluene	ND		25.0	26.0		ug/L		104	76 - 121	3	20
p-Chlorotoluene	ND		25.0	25.8		ug/L		103	77 - 121	2	15
p-Cymene	ND		25.0	26.9		ug/L		108	73 - 120	0	20
sec-Butylbenzene	ND		25.0	26.6		ug/L		106	74 - 127	1	15
Styrene	ND		25.0	27.2		ug/L		109	80 - 120	7	20
tert-Butylbenzene	ND		25.0	26.7		ug/L		107	75 - 123	1	15
Toluene	ND		25.0	27.8		ug/L		111	80 - 122	7	15
trans-1,2-Dichloroethene	ND		25.0	29.5		ug/L		118	73 - 127	8	20
trans-1,3-Dichloropropene	ND		25.0	26.8		ug/L		107	80 - 120	6	15
Trichloroethene	9.4		25.0	37.6		ug/L		113	74 - 123	6	16
Trichlorofluoromethane	ND		25.0	31.0		ug/L		124	62 - 150	2	20
Vinyl chloride	ND		25.0	31.4		ug/L		125	65 - 133	5	15
Xylenes, Total	ND		50.0	53.9		ug/L		108	76 - 122	5	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		77 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Toluene-d8 (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	109		75 - 123

Lab Sample ID: MB 480-573934/7

Matrix: Water

Analysis Batch: 573934

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			03/26/21 12:04	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/26/21 12:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/26/21 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/26/21 12:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/26/21 12:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/26/21 12:04	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-573934/7

Matrix: Water

Analysis Batch: 573934

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/26/21 12:04	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			03/26/21 12:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			03/26/21 12:04	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			03/26/21 12:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/26/21 12:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/26/21 12:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/26/21 12:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/26/21 12:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/26/21 12:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/26/21 12:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/26/21 12:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/26/21 12:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/26/21 12:04	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			03/26/21 12:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/26/21 12:04	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			03/26/21 12:04	1
Benzene	ND		1.0	0.41	ug/L			03/26/21 12:04	1
Bromobenzene	ND		1.0	0.80	ug/L			03/26/21 12:04	1
Bromochloromethane	ND		1.0	0.87	ug/L			03/26/21 12:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/21 12:04	1
Bromoform	ND		1.0	0.26	ug/L			03/26/21 12:04	1
Bromomethane	ND		1.0	0.69	ug/L			03/26/21 12:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/26/21 12:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/26/21 12:04	1
Chloroethane	ND		1.0	0.32	ug/L			03/26/21 12:04	1
Chloroform	ND		1.0	0.34	ug/L			03/26/21 12:04	1
Chloromethane	ND		1.0	0.35	ug/L			03/26/21 12:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/26/21 12:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/26/21 12:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/26/21 12:04	1
Dibromomethane	ND		1.0	0.41	ug/L			03/26/21 12:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/26/21 12:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/26/21 12:04	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			03/26/21 12:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/26/21 12:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/26/21 12:04	1
Naphthalene	ND		1.0	0.43	ug/L			03/26/21 12:04	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/26/21 12:04	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/26/21 12:04	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			03/26/21 12:04	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			03/26/21 12:04	1
p-Cymene	ND		1.0	0.31	ug/L			03/26/21 12:04	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/26/21 12:04	1
Styrene	ND		1.0	0.73	ug/L			03/26/21 12:04	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/26/21 12:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/26/21 12:04	1
Toluene	ND		1.0	0.51	ug/L			03/26/21 12:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/26/21 12:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/26/21 12:04	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-573934/7

Matrix: Water

Analysis Batch: 573934

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.46	ug/L			03/26/21 12:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/26/21 12:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/21 12:04	1
Xylenes, Total	ND		1.0	0.66	ug/L			03/26/21 12:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		03/26/21 12:04	1
4-Bromofluorobenzene (Surr)	120		73 - 120		03/26/21 12:04	1
Toluene-d8 (Surr)	103		80 - 120		03/26/21 12:04	1
Dibromofluoromethane (Surr)	114		75 - 123		03/26/21 12:04	1

Lab Sample ID: LCS 480-573934/5

Matrix: Water

Analysis Batch: 573934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.7		ug/L		103	80 - 120
1,1,1-Trichloroethane	25.0	27.8		ug/L		111	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.9		ug/L		104	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.1		ug/L		92	61 - 148
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	26.5		ug/L		106	77 - 120
1,1-Dichloroethene	25.0	25.7		ug/L		103	66 - 127
1,1-Dichloropropene	25.0	26.2		ug/L		105	72 - 122
1,2,3-Trichlorobenzene	25.0	29.1		ug/L		116	75 - 123
1,2,3-Trichloropropane	25.0	26.6		ug/L		106	68 - 122
1,2,4-Trichlorobenzene	25.0	29.4		ug/L		118	79 - 122
1,2,4-Trimethylbenzene	25.0	25.4		ug/L		101	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	56 - 134
1,2-Dibromoethane	25.0	26.9		ug/L		108	77 - 120
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	80 - 124
1,2-Dichloroethane	25.0	27.2		ug/L		109	75 - 120
1,2-Dichloropropane	25.0	28.1		ug/L		112	76 - 120
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	77 - 121
1,3-Dichlorobenzene	25.0	26.8		ug/L		107	77 - 120
1,3-Dichloropropane	25.0	26.1		ug/L		104	75 - 120
1,4-Dichlorobenzene	25.0	26.8		ug/L		107	80 - 120
2,2-Dichloropropane	25.0	23.8		ug/L		95	63 - 136
Benzene	25.0	27.0		ug/L		108	71 - 124
Bromobenzene	25.0	28.0		ug/L		112	78 - 120
Bromochloromethane	25.0	28.2		ug/L		113	72 - 130
Bromodichloromethane	25.0	27.0		ug/L		108	80 - 122
Bromoform	25.0	28.6		ug/L		115	61 - 132
Bromomethane	25.0	23.0		ug/L		92	55 - 144
Carbon tetrachloride	25.0	26.4		ug/L		106	72 - 134
Chlorobenzene	25.0	25.2		ug/L		101	80 - 120
Chloroethane	25.0	21.6		ug/L		87	69 - 136
Chloroform	25.0	26.7		ug/L		107	73 - 127

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-573934/5

Matrix: Water

Analysis Batch: 573934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	26.6		ug/L		106	68 - 124
cis-1,2-Dichloroethene	25.0	27.4		ug/L		110	74 - 124
cis-1,3-Dichloropropene	25.0	27.4		ug/L		110	74 - 124
Dibromochloromethane	25.0	26.3		ug/L		105	75 - 125
Dibromomethane	25.0	28.8		ug/L		115	76 - 127
Dichlorodifluoromethane	25.0	22.4		ug/L		90	59 - 135
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123
Hexachlorobutadiene	25.0	29.1		ug/L		117	68 - 131
Isopropylbenzene	25.0	25.0		ug/L		100	77 - 122
Methylene Chloride	25.0	26.0		ug/L		104	75 - 124
Naphthalene	25.0	27.0		ug/L		108	66 - 125
n-Butylbenzene	25.0	25.4		ug/L		102	71 - 128
N-Propylbenzene	25.0	24.3		ug/L		97	75 - 127
o-Chlorotoluene	25.0	26.4		ug/L		106	76 - 121
p-Chlorotoluene	25.0	24.9		ug/L		99	77 - 121
p-Cymene	25.0	25.8		ug/L		103	73 - 120
sec-Butylbenzene	25.0	24.7		ug/L		99	74 - 127
Styrene	25.0	26.2		ug/L		105	80 - 120
tert-Butylbenzene	25.0	26.2		ug/L		105	75 - 123
Tetrachloroethene	25.0	27.4		ug/L		110	74 - 122
Toluene	25.0	25.6		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	27.3		ug/L		109	73 - 127
trans-1,3-Dichloropropene	25.0	24.9		ug/L		99	80 - 120
Trichloroethene	25.0	27.6		ug/L		110	74 - 123
Trichlorofluoromethane	25.0	25.0		ug/L		100	62 - 150
Vinyl chloride	25.0	25.5		ug/L		102	65 - 133
Xylenes, Total	50.0	50.9		ug/L		102	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		77 - 120
4-Bromofluorobenzene (Surr)	115		73 - 120
Toluene-d8 (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	116		75 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Lab Sample ID: 480-182440-1 MS

Matrix: Water

Analysis Batch: 573934

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene - DL	140	F1	50.0	177	F1	ug/L	-	72	74 - 122

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Lab Sample ID: 480-182440-1 MS

Matrix: Water

Analysis Batch: 573934

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr) - DL	108		75 - 123

Lab Sample ID: 480-182440-1 MSD

Matrix: Water

Analysis Batch: 573934

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene - DL	140	F1	50.0	174	F1	ug/L		65	74 - 122	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr) - DL	103		77 - 120								
4-Bromofluorobenzene (Surr) - DL	116		73 - 120								
Toluene-d8 (Surr) - DL	102		80 - 120								
Dibromofluoromethane (Surr) - DL	106		75 - 123								

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-165191/1-A

Matrix: Water

Analysis Batch: 165209

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.39	ng/L		03/25/21 13:27	03/25/21 18:49	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	1.1	ng/L		03/25/21 13:27	03/25/21 18:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.74	ng/L		03/25/21 13:27	03/25/21 18:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.90	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.25	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorobutanoic acid (PFBA)	ND		5.0	0.89	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.30	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.39	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.23	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluoroheptanoic acid (PFHpA)	0.283	J	2.0	0.24	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.30	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.45	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.28	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.58	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.29	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.42	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.47	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.63	ng/L		03/25/21 13:27	03/25/21 18:49	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		03/25/21 13:27	03/25/21 18:49	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-165191/1-A

Matrix: Water

Analysis Batch: 165209

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34	ng/L		03/25/21 13:27	03/25/21 18:49	1
Isotope Dilution	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	94		50 - 150				03/25/21 13:27	03/25/21 18:49	1
13C2 PFDoA	87		50 - 150				03/25/21 13:27	03/25/21 18:49	1
13C2 PFHxA	100		50 - 150				03/25/21 13:27	03/25/21 18:49	1
13C2 PFTeDA	79		50 - 150				03/25/21 13:27	03/25/21 18:49	1
13C2 PFUnA	95		50 - 150				03/25/21 13:27	03/25/21 18:49	1
13C3 PFBS	93		50 - 150				03/25/21 13:27	03/25/21 18:49	1
13C4 PFBA	101		25 - 150				03/25/21 13:27	03/25/21 18:49	1
13C4 PFHpA	98		50 - 150				03/25/21 13:27	03/25/21 18:49	1
13C4 PFOA	92		50 - 150				03/25/21 13:27	03/25/21 18:49	1
13C4 PFOS	86		50 - 150				03/25/21 13:27	03/25/21 18:49	1
13C5 PFNA	92		50 - 150				03/25/21 13:27	03/25/21 18:49	1
13C5 PFPeA	100		25 - 150				03/25/21 13:27	03/25/21 18:49	1
13C8 FOSA	80		25 - 150				03/25/21 13:27	03/25/21 18:49	1
18O2 PFHxS	88		50 - 150				03/25/21 13:27	03/25/21 18:49	1
d3-NMeFOSAA	87		50 - 150				03/25/21 13:27	03/25/21 18:49	1
d5-NEtFOSAA	87		50 - 150				03/25/21 13:27	03/25/21 18:49	1
M2-6:2 FTS	92		25 - 150				03/25/21 13:27	03/25/21 18:49	1
M2-8:2 FTS	95		25 - 150				03/25/21 13:27	03/25/21 18:49	1

Lab Sample ID: LCS 200-165191/2-A

Matrix: Water

Analysis Batch: 165209

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	37.6		ng/L		98	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	38.9		ng/L		103	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.4		ng/L		94	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	37.2		ng/L		93	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	34.0		ng/L		96	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	38.5		ng/L		96	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	33.1		ng/L		86	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	37.9		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	36.2		ng/L		90	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	37.9		ng/L		100	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	39.6		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.7		ng/L		98	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	39.2		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	40.0	38.4		ng/L		96	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-165191/2-A

Matrix: Water

Analysis Batch: 165209

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonamide (PFOSA)	40.0	40.6		ng/L		101	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	34.2		ng/L		92	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	39.5		ng/L		99	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	38.2		ng/L		96	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	37.3		ng/L		93	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	35.5		ng/L		89	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	39.1		ng/L		98	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFDA	101		50 - 150
13C2 PFDoA	99		50 - 150
13C2 PFHxA	102		50 - 150
13C2 PFTeDA	91		50 - 150
13C2 PFUnA	97		50 - 150
13C3 PFBS	96		50 - 150
13C4 PFBA	110		25 - 150
13C4 PFHpA	106		50 - 150
13C4 PFOA	97		50 - 150
13C4 PFOS	93		50 - 150
13C5 PFNA	98		50 - 150
13C5 PFPeA	106		25 - 150
13C8 FOSA	76		25 - 150
18O2 PFHxS	94		50 - 150
d3-NMeFOSAA	95		50 - 150
d5-NEtFOSAA	96		50 - 150
M2-6:2 FTS	99		25 - 150
M2-8:2 FTS	103		25 - 150

Lab Sample ID: 480-182440-1 MS

Matrix: Water

Analysis Batch: 165209

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Prep Batch: 165191

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		33.8	33.3		ng/L		98	40 - 160
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		33.5	35.2		ng/L		105	40 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		35.3	37.3		ng/L		106	40 - 160
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		35.3	32.4		ng/L		92	40 - 160
Perfluorobutanesulfonic acid (PFBS)	0.76	J	31.2	31.2		ng/L		97	40 - 160
Perfluorobutanoic acid (PFBA)	3.5	J	35.3	36.6		ng/L		94	40 - 160
Perfluorodecanesulfonic acid (PFDS)	14		34.0	45.1		ng/L		92	40 - 160
Perfluorodecanoic acid (PFDA)	0.49	J	35.3	34.0		ng/L		95	40 - 160

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-182440-1 MS

Matrix: Water

Analysis Batch: 165209

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Prep Batch: 165191

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorododecanoic acid (PFDoA)	ND		35.3	34.5		ng/L		98	40 - 160
Perfluoroheptanesulfonic Acid (PFHpS)	1.2	J	33.6	34.8		ng/L		100	40 - 160
Perfluoroheptanoic acid (PFHpA)	3.1	B	35.3	38.3		ng/L		100	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	3.4		32.1	33.1		ng/L		92	40 - 160
Perfluorohexanoic acid (PFHxA)	2.9		35.3	36.0		ng/L		94	40 - 160
Perfluorononanoic acid (PFNA)	0.76	J	35.3	34.2		ng/L		95	40 - 160
Perfluorooctanesulfonamide (PFOSA)	2.6		35.3	36.5		ng/L		96	40 - 160
Perfluorooctanesulfonic acid (PFOS)	100		32.8	137		ng/L		103	40 - 160
Perfluorooctanoic acid (PFOA)	15		35.3	48.8		ng/L		95	40 - 160
Perfluoropentanoic acid (PFPeA)	3.7		35.3	39.0		ng/L		100	40 - 160
Perfluorotetradecanoic acid (PFTeA)	ND		35.3	34.6		ng/L		98	40 - 160
Perfluorotridecanoic acid (PFTriA)	ND		35.3	33.4		ng/L		94	40 - 160
Perfluoroundecanoic acid (PFUnA)	ND		35.3	34.8		ng/L		99	40 - 160

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2 PFDA	95		50 - 150
13C2 PFDoA	84		50 - 150
13C2 PFHxA	98		50 - 150
13C2 PFTeA	84		50 - 150
13C2 PFUnA	89		50 - 150
13C3 PFBS	91		50 - 150
13C4 PFBA	91		25 - 150
13C4 PFHpA	97		50 - 150
13C4 PFOA	94		50 - 150
13C4 PFOS	84		50 - 150
13C5 PFNA	94		50 - 150
13C5 PFPeA	94		25 - 150
13C8 FOSA	87		25 - 150
18O2 PFHxS	90		50 - 150
d3-NMeFOSAA	90		50 - 150
d5-NEtFOSAA	86		50 - 150
M2-6:2 FTS	94		25 - 150
M2-8:2 FTS	99		25 - 150

Lab Sample ID: 480-182440-1 MSD

Matrix: Water

Analysis Batch: 165209

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Prep Batch: 165191

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		33.9	36.0		ng/L		106	40 - 160	8	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		33.5	34.5		ng/L		103	40 - 160	2	30

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-182440-1 MSD

Matrix: Water

Analysis Batch: 165209

Client Sample ID: BW-5 032321

Prep Type: Total/NA

Prep Batch: 165191

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		35.4	32.7		ng/L		92	40 - 160	13	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		35.4	33.0		ng/L		93	40 - 160	2	20
Perfluorobutanesulfonic acid (PFBS)	0.76	J	31.3	31.2		ng/L		97	40 - 160	0	20
Perfluorobutanoic acid (PFBA)	3.5	J	35.4	37.0		ng/L		95	40 - 160	1	30
Perfluorodecanesulfonic acid (PFDS)	14		34.1	46.5		ng/L		96	40 - 160	3	30
Perfluorodecanoic acid (PFDA)	0.49	J	35.4	33.8		ng/L		94	40 - 160	1	20
Perfluorododecanoic acid (PFDoA)	ND		35.4	35.9		ng/L		101	40 - 160	4	20
Perfluoroheptanesulfonic Acid (PFHpS)	1.2	J	33.7	36.6		ng/L		105	40 - 160	5	30
Perfluoroheptanoic acid (PFHpA)	3.1	B	35.4	39.8		ng/L		104	40 - 160	4	20
Perfluorohexanesulfonic acid (PFHxS)	3.4		32.2	34.5		ng/L		97	40 - 160	4	20
Perfluorohexanoic acid (PFHxA)	2.9		35.4	37.4		ng/L		97	40 - 160	4	20
Perfluorononanoic acid (PFNA)	0.76	J	35.4	34.3		ng/L		95	40 - 160	0	20
Perfluorooctanesulfonamide (PFOSA)	2.6		35.4	40.5		ng/L		107	40 - 160	10	30
Perfluorooctanesulfonic acid (PFOS)	100		32.8	143		ng/L		122	40 - 160	4	20
Perfluorooctanoic acid (PFOA)	15		35.4	48.7		ng/L		95	40 - 160	0	20
Perfluoropentanoic acid (PFPeA)	3.7		35.4	38.7		ng/L		99	40 - 160	1	30
Perfluorotetradecanoic acid (PFTeA)	ND		35.4	35.9		ng/L		102	40 - 160	4	20
Perfluorotridecanoic acid (PFTriA)	ND		35.4	33.6		ng/L		95	40 - 160	1	20
Perfluoroundecanoic acid (PFUnA)	ND		35.4	33.4		ng/L		94	40 - 160	4	20

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFDA	96		50 - 150
13C2 PFDoA	83		50 - 150
13C2 PFHxA	101		50 - 150
13C2 PFTeDA	83		50 - 150
13C2 PFUnA	89		50 - 150
13C3 PFBS	95		50 - 150
13C4 PFBA	95		25 - 150
13C4 PFHpA	100		50 - 150
13C4 PFOA	97		50 - 150
13C4 PFOS	84		50 - 150
13C5 PFNA	98		50 - 150
13C5 PFPeA	97		25 - 150
13C8 FOSA	84		25 - 150
18O2 PFHxS	92		50 - 150
d3-NMeFOSAA	89		50 - 150
d5-NEtFOSAA	93		50 - 150
M2-6:2 FTS	102		25 - 150
M2-8:2 FTS	97		25 - 150

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

GC/MS VOA

Analysis Batch: 573731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182440-1	BW-5 032321	Total/NA	Water	8260C	
480-182440-2	DUP	Total/NA	Water	8260C	
480-182440-4	TRIP BLANK 032321	Total/NA	Water	8260C	
MB 480-573731/7	Method Blank	Total/NA	Water	8260C	
LCS 480-573731/5	Lab Control Sample	Total/NA	Water	8260C	
480-182440-1 MS	BW-5 032321	Total/NA	Water	8260C	
480-182440-1 MSD	BW-5 032321	Total/NA	Water	8260C	

Analysis Batch: 573934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182440-1 - DL	BW-5 032321	Total/NA	Water	8260C	
480-182440-2 - DL	DUP	Total/NA	Water	8260C	
MB 480-573934/7	Method Blank	Total/NA	Water	8260C	
LCS 480-573934/5	Lab Control Sample	Total/NA	Water	8260C	
480-182440-1 MS - DL	BW-5 032321	Total/NA	Water	8260C	
480-182440-1 MSD - DL	BW-5 032321	Total/NA	Water	8260C	

LCMS

Prep Batch: 165191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182440-1	BW-5 032321	Total/NA	Water	3535	
480-182440-2	DUP	Total/NA	Water	3535	
480-182440-3	EQUIPMENT BLANK 032321	Total/NA	Water	3535	
MB 200-165191/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-165191/2-A	Lab Control Sample	Total/NA	Water	3535	
480-182440-1 MS	BW-5 032321	Total/NA	Water	3535	
480-182440-1 MSD	BW-5 032321	Total/NA	Water	3535	

Analysis Batch: 165209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182440-1	BW-5 032321	Total/NA	Water	537 (modified)	165191
480-182440-2	DUP	Total/NA	Water	537 (modified)	165191
480-182440-3	EQUIPMENT BLANK 032321	Total/NA	Water	537 (modified)	165191
MB 200-165191/1-A	Method Blank	Total/NA	Water	537 (modified)	165191
LCS 200-165191/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	165191
480-182440-1 MS	BW-5 032321	Total/NA	Water	537 (modified)	165191
480-182440-1 MSD	BW-5 032321	Total/NA	Water	537 (modified)	165191

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Client Sample ID: BW-5 032321

Lab Sample ID: 480-182440-1

Date Collected: 03/23/21 08:40

Matrix: Water

Date Received: 03/24/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	573731	03/25/21 18:27	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	2	573934	03/26/21 17:49	CRL	TAL BUF
Total/NA	Prep	3535			165191	03/25/21 13:27	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	165209	03/25/21 21:27	ND	TAL BUR

Client Sample ID: DUP

Lab Sample ID: 480-182440-2

Date Collected: 03/23/21 00:00

Matrix: Water

Date Received: 03/24/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	573731	03/25/21 18:52	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	2	573934	03/26/21 18:13	CRL	TAL BUF
Total/NA	Prep	3535			165191	03/25/21 13:27	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	165209	03/25/21 21:51	ND	TAL BUR

Client Sample ID: EQUIPMENT BLANK 032321

Lab Sample ID: 480-182440-3

Date Collected: 03/23/21 09:30

Matrix: Water

Date Received: 03/24/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			165191	03/25/21 13:27	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	165209	03/25/21 22:00	ND	TAL BUR

Client Sample ID: TRIP BLANK 032321

Lab Sample ID: 480-182440-4

Date Collected: 03/23/21 00:00

Matrix: Water

Date Received: 03/24/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	573731	03/25/21 19:16	CRL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-16-21
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-21
Pennsylvania	NELAP	68-00489	04-30-21
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-31-21

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-182440-1	BW-5 032321	Water	03/23/21 08:40	03/24/21 10:00	
480-182440-2	DUP	Water	03/23/21 00:00	03/24/21 10:00	
480-182440-3	EQUIPMENT BLANK 032321	Water	03/23/21 09:30	03/24/21 10:00	
480-182440-4	TRIP BLANK 032321	Water	03/23/21 00:00	03/24/21 10:00	

Quantitation Limit Exceptions Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182440-1
SDG: 480-182440-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260C	Hexachlorobutadiene	Water	Total/NA	ug/L	1.0	2.0
8260C	Xylenes, Total	Water	Total/NA	ug/L	1.0	2.0

Chain of Custody Record

Albany
#224

Client Information		Sampler: <i>William K / Nicole T.</i>		Lab PM: Schove, John R	Carrier Tracking No(s): 480-158485-32571.1
Client Contact: Lindsay Mitchell		Phone: 716-390-0702		E-Mail: John.Schove@Eurofinset.com	Page 1 of 1
Company: AECOM Technical Services Inc.		Address: 40 British American Boulevard		City: Latham	
State: NY		Zip: 12110		Phone: 518-951-2200(Tel)	
Email: lindsay.mitchell@aecom.com		Project Name: Philips - Saugerties, NY site		Site: New York	
Due Date Requested:		TAT Requested (days): <i>Stand.</i>		Compliance Project: ☐ Yes ☒ No	
PO #: 60542665		WO #: 60542665		Project #: 48003119	
SSOW#		Sample Date		Sample Time	
Sample Identification		Sample Type (C=Comp, G=Grab)		Matrix (W=Water, S=solid, O=Other)	
BW-5 032321		G		Water	
DUP		G		Water	
MSD		G		Water	
Equipment Blank 032321		G		Water	
TRIP Blank 032321		-		Water	
Possible Hazard Identification		Sample Date		Sample Time	
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		03/23/21		0840	
Deliverable Requested: I, II, III, IV, Other (specify)		03/23/21		0840	
Empty Kit Relinquished by:		03/23/21		0930	
Relinquished by: <i>William K</i>		03/23/21		1255	
Relinquished by: <i>Jim Krollinger</i>		3-23-2021		1700	
Relinquished by:		Date/Time		Date/Time	
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.1	

Client Information		Sampler: <u>Mitchell</u>		Lab PM: <u>Schove, John R</u>		Carrier Tracking No(s):		COC No: <u>480-158485-32571.1</u>	
Client Contact: <u>Lindsay Mitchell</u>		Phone: <u>716-390-0702</u>		E-Mail: <u>John.Schove@Eurofinset.com</u>		State of Origin:		Page: <u>Page 1 of 1</u>	
Company: <u>AECOM Technical Services Inc.</u>		PWSID:		Analysis Requested		Job #:			
Address: <u>40 British American Boulevard</u>		Due Date Requested:		TAT Requested (days): <u>Stand.</u>		Preservation Codes:			
City: <u>Latham</u>		Compliance Project: <u>Δ Yes Δ No</u>		PO #:		A - HCL		M - Hexane	
State, Zip: <u>NY, 12110</u>		PO #:		WO #:		B - NaOH		N - None	
Phone: <u>518-951-2200(Tel)</u>		Project #:		SSOW#:		C - Zn Acetate		O - AsNaO2	
Email: <u>lindsay.mitchell@aecom.com</u>		Philips - Saugerties, NY site				D - Nitric Acid		P - Na2O4S	
Site: <u>New York</u>						E - NaHSO4		Q - Na2SO3	
						F - MeOH		R - Na2SO3	
						G - Anchlor		S - H2SO4	
						H - Ascorbic Acid		T - TSP Dodecahydrate	
						I - Ice		U - Acetone	
						J - DI Water		V - MCAA	
						Z - other (specify)			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Performance MS/MSD (Yes or No)	PFC, LDA, PFA, Standard List (21 Analytes)	8260C - VOCs	Special Instructions/Note:
BW-5 032321	03/23/21	0840	G	Water					
DUP			G	Water					
MS	03/23/21	0840	G	Water					
MSD			G	Water					
Equipment Blank 032321	03/23/21	0930	G	Water					
TRIP Blank 032321	03/23/21		-	Water					

Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐	
Deliverable Requested: I, II, III, IV, Other (specify)		Category B requested	
Empty Kit Relinquished by:		Date:	
Relinquished by: <u>Andrew K...</u>		Date/Time: <u>3/23/21 1255</u>	
Relinquished by: <u>Jim K...</u>		Date/Time: <u>3-23-2021 1700</u>	
Relinquished by:		Date/Time:	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Disposal By Lab ☒ Archive For <u>Months</u>	
Special Instructions/QC Requirements:		Method of Shipment:	
Revised by: <u>Jim K...</u>		Date/Time: <u>3-23-2021 1335</u>	
Received by: <u>Jim K...</u>		Date/Time: <u>3/24/21 10:30</u>	
Received by:		Date/Time:	
Cooler Temperature(s) °C and Other Remarks:			

FROM: (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

ALBANY NY 12205
US

SHIP DATE: 23MAR21
ACTWGT: 20.35 LB
CAD: 0866598/CAFE3409

BILL 3rd PARTY

56N3/AC39/05A2

TO **SAMPLE RECEIVING**
TESTAMERICA - BURLINGTON
30 COMMUNITY DRIVE, SUITE 11

BURLINGTON VT 05403

(US)

(802) 680-1990
REF: AECOM PFAS



FedEx
ground



1201120121801W

TRK# **5013 1604 7120**

05403

7120

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 480-182440-1

SDG Number: 480-182440-1

Login Number: 182440

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 480-182440-1

SDG Number: 480-182440-1

Login Number: 182440

List Number: 2

Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington

List Creation: 03/25/21 09:48 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1479132
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

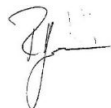
Laboratory Job ID: 480-182588-1

Client Project/Site: Philips - Saugerties, NY site

For:

AECOM Technical Services Inc.
40 British American Boulevard
Latham, New York 12110

Attn: Lindsay Mitchell



Authorized for release by:

4/9/2021 10:00:00 AM

Rebecca Jones, Project Management Assistant I

Rebecca.Jones@Eurofinset.com

Designee for

John Schove, Project Manager II

(716)504-9838

John.Schove@Eurofinset.com

LINKS

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results through

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Job ID: 480-182588-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-182588-1

Comments

No additional comments.

Receipt

The samples were received on 3/27/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: RW-4 032621 (480-182588-1), K-WELL 032621 (480-182588-2), K-WELL 032621 (480-182588-2[MS]), K-WELL 032621 (480-182588-2[MSD]) and DUP 032621 (480-182588-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS

Method 537 (modified): The method blank for preparation batch 200-165275 and analytical batch 200-165316 contained Perfluoroheptanoic acid (PFHpA), Perfluorohexanesulfonic acid (PFHxS), Perfluorobutanesulfonic acid (PFBS), Perfluoroundecanoic acid (PFUnA) and Perfluorodecanoic acid (PFDA) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 537 (modified): Method 537 (modified): The "I" qualifier associated with sample K-WELL 032621 (480-182588-2) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: RW-4 032621

Lab Sample ID: 480-182588-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	13		4.0	3.3	ug/L	4		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	94		4.0	1.2	ug/L	4		8260C	Total/NA
1,1-Dichloroethane	27		4.0	1.5	ug/L	4		8260C	Total/NA
1,1-Dichloroethene	10		4.0	1.2	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	8.3		4.0	3.2	ug/L	4		8260C	Total/NA
Tetrachloroethene	16		4.0	1.4	ug/L	4		8260C	Total/NA
Trichloroethene	21		4.0	1.8	ug/L	4		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.45	J B	1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	2.0	J	4.3	0.77	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.56	J B	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.54	J B	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.64	J	1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.56	J	1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.8		1.7	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.3		1.7	0.37	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.0	J	1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.59	J B	1.7	0.30	ng/L	1		537 (modified)	Total/NA

Client Sample ID: K-WELL 032621

Lab Sample ID: 480-182588-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.9		2.0	1.6	ug/L	2		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1		2.0	0.62	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	3.5		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	1.1	J	2.0	0.58	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	11		2.0	1.6	ug/L	2		8260C	Total/NA
Tetrachloroethene	110	F1	2.0	0.72	ug/L	2		8260C	Total/NA
Trichloroethene	8.2		2.0	0.92	ug/L	2		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.65	J B	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	2.8	J	4.4	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	8.9		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.41	J B	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.70	J	1.8	0.21	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.5	B	1.8	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.5	B	1.8	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		1.8	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.77	J I	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (PFOSA)	1.4	J	1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	73		1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	11		1.8	0.37	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.6		1.8	0.42	ng/L	1		537 (modified)	Total/NA

Client Sample ID: DUP 032621

Lab Sample ID: 480-182588-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.1		4.0	3.3	ug/L	4		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	6.8		4.0	1.2	ug/L	4		8260C	Total/NA
1,1-Dichloroethane	3.4	J	4.0	1.5	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	11		4.0	3.2	ug/L	4		8260C	Total/NA
Tetrachloroethene	110		4.0	1.4	ug/L	4		8260C	Total/NA
Trichloroethene	8.7		4.0	1.8	ug/L	4		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: DUP 032621 (Continued)

Lab Sample ID: 480-182588-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.75	J B	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	2.9	J	4.7	0.84	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	9.3		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.52	J B	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.74	J	1.9	0.22	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.6	B	1.9	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.4	B	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.3		1.9	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.77	J	1.9	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (PFOSA)	1.3	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	73		1.9	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	12		1.9	0.40	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.3		1.9	0.45	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EQUIPMENT BLANK 032621

Lab Sample ID: 480-182588-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.23	J	1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.31	J	1.7	0.27	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.23	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.30	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.31	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.41	J	1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.55	J	1.7	0.41	ng/L	1		537 (modified)	Total/NA

Client Sample ID: TRIP BLANK 032621

Lab Sample ID: 480-182588-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: RW-4 032621

Lab Sample ID: 480-182588-1

Date Collected: 03/26/21 12:15

Matrix: Water

Date Received: 03/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0	1.4	ug/L			03/31/21 11:22	4
1,1,1-Trichloroethane	13		4.0	3.3	ug/L			03/31/21 11:22	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			03/31/21 11:22	4
1,1,2-Trichloro-1,2,2-trifluoroethane	94		4.0	1.2	ug/L			03/31/21 11:22	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			03/31/21 11:22	4
1,1-Dichloroethane	27		4.0	1.5	ug/L			03/31/21 11:22	4
1,1-Dichloroethene	10		4.0	1.2	ug/L			03/31/21 11:22	4
1,1-Dichloropropene	ND		4.0	2.9	ug/L			03/31/21 11:22	4
1,2,3-Trichlorobenzene	ND		4.0	1.6	ug/L			03/31/21 11:22	4
1,2,3-Trichloropropane	ND		4.0	3.6	ug/L			03/31/21 11:22	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			03/31/21 11:22	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			03/31/21 11:22	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			03/31/21 11:22	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			03/31/21 11:22	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			03/31/21 11:22	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			03/31/21 11:22	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			03/31/21 11:22	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			03/31/21 11:22	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			03/31/21 11:22	4
1,3-Dichloropropane	ND		4.0	3.0	ug/L			03/31/21 11:22	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			03/31/21 11:22	4
2,2-Dichloropropane	ND		4.0	1.6	ug/L			03/31/21 11:22	4
Benzene	ND		4.0	1.6	ug/L			03/31/21 11:22	4
Bromobenzene	ND		4.0	3.2	ug/L			03/31/21 11:22	4
Bromochloromethane	ND		4.0	3.5	ug/L			03/31/21 11:22	4
Bromodichloromethane	ND		4.0	1.6	ug/L			03/31/21 11:22	4
Bromoform	ND		4.0	1.0	ug/L			03/31/21 11:22	4
Bromomethane	ND		4.0	2.8	ug/L			03/31/21 11:22	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			03/31/21 11:22	4
Chlorobenzene	ND		4.0	3.0	ug/L			03/31/21 11:22	4
Chloroethane	ND		4.0	1.3	ug/L			03/31/21 11:22	4
Chloroform	ND		4.0	1.4	ug/L			03/31/21 11:22	4
Chloromethane	ND		4.0	1.4	ug/L			03/31/21 11:22	4
cis-1,2-Dichloroethene	8.3		4.0	3.2	ug/L			03/31/21 11:22	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			03/31/21 11:22	4
Dibromochloromethane	ND		4.0	1.3	ug/L			03/31/21 11:22	4
Dibromomethane	ND		4.0	1.6	ug/L			03/31/21 11:22	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			03/31/21 11:22	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/31/21 11:22	4
Hexachlorobutadiene	ND		4.0	1.1	ug/L			03/31/21 11:22	4
Isopropylbenzene	ND		4.0	3.2	ug/L			03/31/21 11:22	4
Methylene Chloride	ND		4.0	1.8	ug/L			03/31/21 11:22	4
Naphthalene	ND		4.0	1.7	ug/L			03/31/21 11:22	4
n-Butylbenzene	ND		4.0	2.6	ug/L			03/31/21 11:22	4
N-Propylbenzene	ND		4.0	2.8	ug/L			03/31/21 11:22	4
o-Chlorotoluene	ND		4.0	3.4	ug/L			03/31/21 11:22	4
p-Chlorotoluene	ND		4.0	3.4	ug/L			03/31/21 11:22	4
p-Cymene	ND		4.0	1.2	ug/L			03/31/21 11:22	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			03/31/21 11:22	4

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: RW-4 032621

Lab Sample ID: 480-182588-1

Date Collected: 03/26/21 12:15

Matrix: Water

Date Received: 03/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		4.0	2.9	ug/L			03/31/21 11:22	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			03/31/21 11:22	4
Tetrachloroethene	16		4.0	1.4	ug/L			03/31/21 11:22	4
Toluene	ND		4.0	2.0	ug/L			03/31/21 11:22	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			03/31/21 11:22	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			03/31/21 11:22	4
Trichloroethene	21		4.0	1.8	ug/L			03/31/21 11:22	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			03/31/21 11:22	4
Vinyl chloride	ND		4.0	3.6	ug/L			03/31/21 11:22	4
Xylenes, Total	ND		4.0	2.6	ug/L			03/31/21 11:22	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		03/31/21 11:22	4
4-Bromofluorobenzene (Surr)	101		73 - 120		03/31/21 11:22	4
Toluene-d8 (Surr)	99		80 - 120		03/31/21 11:22	4
Dibromofluoromethane (Surr)	98		75 - 123		03/31/21 11:22	4

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.34	ng/L		03/29/21 08:27	03/29/21 19:51	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.95	ng/L		03/29/21 08:27	03/29/21 19:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.64	ng/L		03/29/21 08:27	03/29/21 19:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.78	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorobutanesulfonic acid (PFBS)	0.45	J B	1.7	0.22	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorobutanoic acid (PFBA)	2.0	J	4.3	0.77	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.26	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.20	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluoroheptanoic acid (PFHpA)	0.56	J B	1.7	0.21	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.54	J B	1.7	0.26	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorohexanoic acid (PFHxA)	0.64	J	1.7	0.39	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorononanoic acid (PFNA)	0.56	J	1.7	0.24	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.50	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorooctanesulfonic acid (PFOS)	6.8		1.7	0.25	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorooctanoic acid (PFOA)	2.3		1.7	0.37	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluoropentanoic acid (PFPeA)	1.0	J	1.7	0.41	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.55	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.38	ng/L		03/29/21 08:27	03/29/21 19:51	1
Perfluoroundecanoic acid (PFUnA)	0.59	J B	1.7	0.30	ng/L		03/29/21 08:27	03/29/21 19:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	96		50 - 150	03/29/21 08:27	03/29/21 19:51	1
13C2 PFDoA	85		50 - 150	03/29/21 08:27	03/29/21 19:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: RW-4 032621

Lab Sample ID: 480-182588-1

Date Collected: 03/26/21 12:15

Matrix: Water

Date Received: 03/27/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	101		50 - 150	03/29/21 08:27	03/29/21 19:51	1
13C2 PFUnA	94		50 - 150	03/29/21 08:27	03/29/21 19:51	1
13C2 PFTeDA	86		50 - 150	03/29/21 08:27	03/29/21 19:51	1
13C3 PFBS	99		50 - 150	03/29/21 08:27	03/29/21 19:51	1
13C4 PFBA	93		25 - 150	03/29/21 08:27	03/29/21 19:51	1
13C4 PFOA	100		50 - 150	03/29/21 08:27	03/29/21 19:51	1
13C4 PFOS	98		50 - 150	03/29/21 08:27	03/29/21 19:51	1
13C4 PFHpA	104		50 - 150	03/29/21 08:27	03/29/21 19:51	1
13C5 PFNA	101		50 - 150	03/29/21 08:27	03/29/21 19:51	1
13C5 PFPeA	97		25 - 150	03/29/21 08:27	03/29/21 19:51	1
13C8 FOSA	89		25 - 150	03/29/21 08:27	03/29/21 19:51	1
18O2 PFHxS	99		50 - 150	03/29/21 08:27	03/29/21 19:51	1
d3-NMeFOSAA	94		50 - 150	03/29/21 08:27	03/29/21 19:51	1
d5-NEtFOSAA	90		50 - 150	03/29/21 08:27	03/29/21 19:51	1
M2-6:2 FTS	108		25 - 150	03/29/21 08:27	03/29/21 19:51	1
M2-8:2 FTS	110		25 - 150	03/29/21 08:27	03/29/21 19:51	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: K-WELL 032621

Lab Sample ID: 480-182588-2

Date Collected: 03/26/21 10:00

Matrix: Water

Date Received: 03/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.70	ug/L			03/31/21 11:46	2
1,1,1-Trichloroethane	5.9		2.0	1.6	ug/L			03/31/21 11:46	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			03/31/21 11:46	2
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1		2.0	0.62	ug/L			03/31/21 11:46	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			03/31/21 11:46	2
1,1-Dichloroethane	3.5		2.0	0.76	ug/L			03/31/21 11:46	2
1,1-Dichloroethene	1.1	J	2.0	0.58	ug/L			03/31/21 11:46	2
1,1-Dichloropropene	ND		2.0	1.4	ug/L			03/31/21 11:46	2
1,2,3-Trichlorobenzene	ND		2.0	0.82	ug/L			03/31/21 11:46	2
1,2,3-Trichloropropane	ND		2.0	1.8	ug/L			03/31/21 11:46	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			03/31/21 11:46	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			03/31/21 11:46	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			03/31/21 11:46	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			03/31/21 11:46	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			03/31/21 11:46	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			03/31/21 11:46	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			03/31/21 11:46	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			03/31/21 11:46	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			03/31/21 11:46	2
1,3-Dichloropropane	ND		2.0	1.5	ug/L			03/31/21 11:46	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			03/31/21 11:46	2
2,2-Dichloropropane	ND		2.0	0.80	ug/L			03/31/21 11:46	2
Benzene	ND		2.0	0.82	ug/L			03/31/21 11:46	2
Bromobenzene	ND		2.0	1.6	ug/L			03/31/21 11:46	2
Bromochloromethane	ND		2.0	1.7	ug/L			03/31/21 11:46	2
Bromodichloromethane	ND		2.0	0.78	ug/L			03/31/21 11:46	2
Bromoform	ND		2.0	0.52	ug/L			03/31/21 11:46	2
Bromomethane	ND		2.0	1.4	ug/L			03/31/21 11:46	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			03/31/21 11:46	2
Chlorobenzene	ND		2.0	1.5	ug/L			03/31/21 11:46	2
Chloroethane	ND		2.0	0.64	ug/L			03/31/21 11:46	2
Chloroform	ND		2.0	0.68	ug/L			03/31/21 11:46	2
Chloromethane	ND		2.0	0.70	ug/L			03/31/21 11:46	2
cis-1,2-Dichloroethene	11		2.0	1.6	ug/L			03/31/21 11:46	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			03/31/21 11:46	2
Dibromochloromethane	ND		2.0	0.64	ug/L			03/31/21 11:46	2
Dibromomethane	ND		2.0	0.82	ug/L			03/31/21 11:46	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			03/31/21 11:46	2
Ethylbenzene	ND		2.0	1.5	ug/L			03/31/21 11:46	2
Hexachlorobutadiene	ND		2.0	0.56	ug/L			03/31/21 11:46	2
Isopropylbenzene	ND		2.0	1.6	ug/L			03/31/21 11:46	2
Methylene Chloride	ND		2.0	0.88	ug/L			03/31/21 11:46	2
Naphthalene	ND		2.0	0.86	ug/L			03/31/21 11:46	2
n-Butylbenzene	ND		2.0	1.3	ug/L			03/31/21 11:46	2
N-Propylbenzene	ND		2.0	1.4	ug/L			03/31/21 11:46	2
o-Chlorotoluene	ND		2.0	1.7	ug/L			03/31/21 11:46	2
p-Chlorotoluene	ND		2.0	1.7	ug/L			03/31/21 11:46	2
p-Cymene	ND		2.0	0.62	ug/L			03/31/21 11:46	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			03/31/21 11:46	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: K-WELL 032621

Lab Sample ID: 480-182588-2

Date Collected: 03/26/21 10:00

Matrix: Water

Date Received: 03/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		2.0	1.5	ug/L			03/31/21 11:46	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			03/31/21 11:46	2
Tetrachloroethene	110	F1	2.0	0.72	ug/L			03/31/21 11:46	2
Toluene	ND		2.0	1.0	ug/L			03/31/21 11:46	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			03/31/21 11:46	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			03/31/21 11:46	2
Trichloroethene	8.2		2.0	0.92	ug/L			03/31/21 11:46	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			03/31/21 11:46	2
Vinyl chloride	ND		2.0	1.8	ug/L			03/31/21 11:46	2
Xylenes, Total	ND		2.0	1.3	ug/L			03/31/21 11:46	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		03/31/21 11:46	2
4-Bromofluorobenzene (Surr)	101		73 - 120		03/31/21 11:46	2
Toluene-d8 (Surr)	98		80 - 120		03/31/21 11:46	2
Dibromofluoromethane (Surr)	99		75 - 123		03/31/21 11:46	2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8	0.34	ng/L		03/29/21 08:27	03/29/21 19:59	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.4	0.96	ng/L		03/29/21 08:27	03/29/21 19:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	0.65	ng/L		03/29/21 08:27	03/29/21 19:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	0.79	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorobutanesulfonic acid (PFBS)	0.65	J B	1.8	0.22	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorobutanoic acid (PFBA)	2.8	J	4.4	0.78	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorodecanesulfonic acid (PFDS)	8.9		1.8	0.27	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorodecanoic acid (PFDA)	0.41	J B	1.8	0.27	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.34	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.70	J	1.8	0.21	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluoroheptanoic acid (PFHpA)	2.5	B	1.8	0.21	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorohexanesulfonic acid (PFHxS)	2.5	B	1.8	0.26	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorohexanoic acid (PFHxA)	2.2		1.8	0.40	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorononanoic acid (PFNA)	0.77	J I	1.8	0.25	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorooctanesulfonamide (PFOSA)	1.4	J	1.8	0.51	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorooctanesulfonic acid (PFOS)	73		1.8	0.25	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorooctanoic acid (PFOA)	11		1.8	0.37	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluoropentanoic acid (PFPeA)	2.6		1.8	0.42	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.55	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.38	ng/L		03/29/21 08:27	03/29/21 19:59	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.30	ng/L		03/29/21 08:27	03/29/21 19:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	99		50 - 150	03/29/21 08:27	03/29/21 19:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: K-WELL 032621

Lab Sample ID: 480-182588-2

Date Collected: 03/26/21 10:00

Matrix: Water

Date Received: 03/27/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDoA	84		50 - 150	03/29/21 08:27	03/29/21 19:59	1
13C2 PFHxA	99		50 - 150	03/29/21 08:27	03/29/21 19:59	1
13C2 PFUnA	90		50 - 150	03/29/21 08:27	03/29/21 19:59	1
13C2 PFTeDA	81		50 - 150	03/29/21 08:27	03/29/21 19:59	1
13C3 PFBS	97		50 - 150	03/29/21 08:27	03/29/21 19:59	1
13C4 PFBA	92		25 - 150	03/29/21 08:27	03/29/21 19:59	1
13C4 PFOA	103		50 - 150	03/29/21 08:27	03/29/21 19:59	1
13C4 PFOS	96		50 - 150	03/29/21 08:27	03/29/21 19:59	1
13C4 PFHpA	101		50 - 150	03/29/21 08:27	03/29/21 19:59	1
13C5 PFNA	97		50 - 150	03/29/21 08:27	03/29/21 19:59	1
13C5 PFPeA	99		25 - 150	03/29/21 08:27	03/29/21 19:59	1
13C8 FOSA	94		25 - 150	03/29/21 08:27	03/29/21 19:59	1
18O2 PFHxS	94		50 - 150	03/29/21 08:27	03/29/21 19:59	1
d3-NMeFOSAA	94		50 - 150	03/29/21 08:27	03/29/21 19:59	1
d5-NEtFOSAA	98		50 - 150	03/29/21 08:27	03/29/21 19:59	1
M2-6:2 FTS	111		25 - 150	03/29/21 08:27	03/29/21 19:59	1
M2-8:2 FTS	105		25 - 150	03/29/21 08:27	03/29/21 19:59	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: DUP 032621

Lab Sample ID: 480-182588-3

Date Collected: 03/26/21 00:00

Matrix: Water

Date Received: 03/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0	1.4	ug/L			03/31/21 12:11	4
1,1,1-Trichloroethane	6.1		4.0	3.3	ug/L			03/31/21 12:11	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			03/31/21 12:11	4
1,1,2-Trichloro-1,2,2-trifluoroethane	6.8		4.0	1.2	ug/L			03/31/21 12:11	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			03/31/21 12:11	4
1,1-Dichloroethane	3.4 J		4.0	1.5	ug/L			03/31/21 12:11	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			03/31/21 12:11	4
1,1-Dichloropropene	ND		4.0	2.9	ug/L			03/31/21 12:11	4
1,2,3-Trichlorobenzene	ND		4.0	1.6	ug/L			03/31/21 12:11	4
1,2,3-Trichloropropane	ND		4.0	3.6	ug/L			03/31/21 12:11	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			03/31/21 12:11	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			03/31/21 12:11	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			03/31/21 12:11	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			03/31/21 12:11	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			03/31/21 12:11	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			03/31/21 12:11	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			03/31/21 12:11	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			03/31/21 12:11	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			03/31/21 12:11	4
1,3-Dichloropropane	ND		4.0	3.0	ug/L			03/31/21 12:11	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			03/31/21 12:11	4
2,2-Dichloropropane	ND		4.0	1.6	ug/L			03/31/21 12:11	4
Benzene	ND		4.0	1.6	ug/L			03/31/21 12:11	4
Bromobenzene	ND		4.0	3.2	ug/L			03/31/21 12:11	4
Bromochloromethane	ND		4.0	3.5	ug/L			03/31/21 12:11	4
Bromodichloromethane	ND		4.0	1.6	ug/L			03/31/21 12:11	4
Bromoform	ND		4.0	1.0	ug/L			03/31/21 12:11	4
Bromomethane	ND		4.0	2.8	ug/L			03/31/21 12:11	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			03/31/21 12:11	4
Chlorobenzene	ND		4.0	3.0	ug/L			03/31/21 12:11	4
Chloroethane	ND		4.0	1.3	ug/L			03/31/21 12:11	4
Chloroform	ND		4.0	1.4	ug/L			03/31/21 12:11	4
Chloromethane	ND		4.0	1.4	ug/L			03/31/21 12:11	4
cis-1,2-Dichloroethene	11		4.0	3.2	ug/L			03/31/21 12:11	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			03/31/21 12:11	4
Dibromochloromethane	ND		4.0	1.3	ug/L			03/31/21 12:11	4
Dibromomethane	ND		4.0	1.6	ug/L			03/31/21 12:11	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			03/31/21 12:11	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/31/21 12:11	4
Hexachlorobutadiene	ND		4.0	1.1	ug/L			03/31/21 12:11	4
Isopropylbenzene	ND		4.0	3.2	ug/L			03/31/21 12:11	4
Methylene Chloride	ND		4.0	1.8	ug/L			03/31/21 12:11	4
Naphthalene	ND		4.0	1.7	ug/L			03/31/21 12:11	4
n-Butylbenzene	ND		4.0	2.6	ug/L			03/31/21 12:11	4
N-Propylbenzene	ND		4.0	2.8	ug/L			03/31/21 12:11	4
o-Chlorotoluene	ND		4.0	3.4	ug/L			03/31/21 12:11	4
p-Chlorotoluene	ND		4.0	3.4	ug/L			03/31/21 12:11	4
p-Cymene	ND		4.0	1.2	ug/L			03/31/21 12:11	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			03/31/21 12:11	4

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: DUP 032621

Lab Sample ID: 480-182588-3

Date Collected: 03/26/21 00:00

Matrix: Water

Date Received: 03/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		4.0	2.9	ug/L			03/31/21 12:11	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			03/31/21 12:11	4
Tetrachloroethene	110		4.0	1.4	ug/L			03/31/21 12:11	4
Toluene	ND		4.0	2.0	ug/L			03/31/21 12:11	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			03/31/21 12:11	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			03/31/21 12:11	4
Trichloroethene	8.7		4.0	1.8	ug/L			03/31/21 12:11	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			03/31/21 12:11	4
Vinyl chloride	ND		4.0	3.6	ug/L			03/31/21 12:11	4
Xylenes, Total	ND		4.0	2.6	ug/L			03/31/21 12:11	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		03/31/21 12:11	4
4-Bromofluorobenzene (Surr)	97		73 - 120		03/31/21 12:11	4
Toluene-d8 (Surr)	95		80 - 120		03/31/21 12:11	4
Dibromofluoromethane (Surr)	102		75 - 123		03/31/21 12:11	4

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9	0.37	ng/L		03/29/21 08:27	03/29/21 20:24	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.7	1.0	ng/L		03/29/21 08:27	03/29/21 20:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	0.70	ng/L		03/29/21 08:27	03/29/21 20:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	0.85	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorobutanesulfonic acid (PFBS)	0.75	J B	1.9	0.24	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorobutanoic acid (PFBA)	2.9	J	4.7	0.84	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorodecanesulfonic acid (PFDS)	9.3		1.9	0.29	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorodecanoic acid (PFDA)	0.52	J B	1.9	0.29	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.36	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.74	J	1.9	0.22	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluoroheptanoic acid (PFHpA)	2.6	B	1.9	0.22	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorohexanesulfonic acid (PFHxS)	2.4	B	1.9	0.28	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorohexanoic acid (PFHxA)	2.3		1.9	0.43	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorononanoic acid (PFNA)	0.77	J	1.9	0.27	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorooctanesulfonamide (PFOSA)	1.3	J	1.9	0.54	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorooctanesulfonic acid (PFOS)	73		1.9	0.27	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorooctanoic acid (PFOA)	12		1.9	0.40	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluoropentanoic acid (PFPeA)	3.3		1.9	0.45	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.60	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.41	ng/L		03/29/21 08:27	03/29/21 20:24	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.32	ng/L		03/29/21 08:27	03/29/21 20:24	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	102		50 - 150	03/29/21 08:27	03/29/21 20:24	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: DUP 032621

Lab Sample ID: 480-182588-3

Date Collected: 03/26/21 00:00

Matrix: Water

Date Received: 03/27/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDoA	93		50 - 150	03/29/21 08:27	03/29/21 20:24	1
13C2 PFHxA	100		50 - 150	03/29/21 08:27	03/29/21 20:24	1
13C2 PFUnA	100		50 - 150	03/29/21 08:27	03/29/21 20:24	1
13C2 PFTeDA	90		50 - 150	03/29/21 08:27	03/29/21 20:24	1
13C3 PFBS	100		50 - 150	03/29/21 08:27	03/29/21 20:24	1
13C4 PFBA	93		25 - 150	03/29/21 08:27	03/29/21 20:24	1
13C4 PFOA	102		50 - 150	03/29/21 08:27	03/29/21 20:24	1
13C4 PFOS	99		50 - 150	03/29/21 08:27	03/29/21 20:24	1
13C4 PFHpA	99		50 - 150	03/29/21 08:27	03/29/21 20:24	1
13C5 PFNA	100		50 - 150	03/29/21 08:27	03/29/21 20:24	1
13C5 PFPeA	97		25 - 150	03/29/21 08:27	03/29/21 20:24	1
13C8 FOSA	94		25 - 150	03/29/21 08:27	03/29/21 20:24	1
18O2 PFHxS	100		50 - 150	03/29/21 08:27	03/29/21 20:24	1
d3-NMeFOSAA	99		50 - 150	03/29/21 08:27	03/29/21 20:24	1
d5-NEtFOSAA	102		50 - 150	03/29/21 08:27	03/29/21 20:24	1
M2-6:2 FTS	108		25 - 150	03/29/21 08:27	03/29/21 20:24	1
M2-8:2 FTS	108		25 - 150	03/29/21 08:27	03/29/21 20:24	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: EQUIPMENT BLANK 032621

Lab Sample ID: 480-182588-4

Date Collected: 03/26/21 12:45

Matrix: Water

Date Received: 03/27/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.34	ng/L		04/05/21 13:48	04/05/21 21:11	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.4	0.96	ng/L		04/05/21 13:48	04/05/21 21:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	0.65	ng/L		04/05/21 13:48	04/05/21 21:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	0.79	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorobutanesulfonic acid (PFBS)	0.23	J	1.7	0.22	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorobutanoic acid (PFBA)	ND		4.4	0.78	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorodecanoic acid (PFDA)	0.31	J	1.7	0.27	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.34	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.23	J	1.7	0.20	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluoroheptanoic acid (PFHpA)	0.30	J	1.7	0.21	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.31	J	1.7	0.26	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorohexanoic acid (PFHxA)	0.41	J	1.7	0.40	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.25	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.50	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.25	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.37	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluoropentanoic acid (PFPeA)	0.55	J	1.7	0.41	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.55	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.38	ng/L		04/05/21 13:48	04/05/21 21:11	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.30	ng/L		04/05/21 13:48	04/05/21 21:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	94		50 - 150	04/05/21 13:48	04/05/21 21:11	1
13C2 PFDoA	98		50 - 150	04/05/21 13:48	04/05/21 21:11	1
13C2 PFHxA	96		50 - 150	04/05/21 13:48	04/05/21 21:11	1
13C2 PFUnA	88		50 - 150	04/05/21 13:48	04/05/21 21:11	1
13C2 PFTeDA	88		50 - 150	04/05/21 13:48	04/05/21 21:11	1
13C3 PFBS	93		50 - 150	04/05/21 13:48	04/05/21 21:11	1
13C4 PFBA	102		25 - 150	04/05/21 13:48	04/05/21 21:11	1
13C4 PFOA	95		50 - 150	04/05/21 13:48	04/05/21 21:11	1
13C4 PFOS	93		50 - 150	04/05/21 13:48	04/05/21 21:11	1
13C4 PFHpA	96		50 - 150	04/05/21 13:48	04/05/21 21:11	1
13C5 PFNA	95		50 - 150	04/05/21 13:48	04/05/21 21:11	1
13C5 PFPeA	96		25 - 150	04/05/21 13:48	04/05/21 21:11	1
13C8 FOSA	83		25 - 150	04/05/21 13:48	04/05/21 21:11	1
18O2 PFHxS	93		50 - 150	04/05/21 13:48	04/05/21 21:11	1
d3-NMeFOSAA	103		50 - 150	04/05/21 13:48	04/05/21 21:11	1
d5-NEtFOSAA	96		50 - 150	04/05/21 13:48	04/05/21 21:11	1
M2-6:2 FTS	99		25 - 150	04/05/21 13:48	04/05/21 21:11	1
M2-8:2 FTS	103		25 - 150	04/05/21 13:48	04/05/21 21:11	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: TRIP BLANK 032621

Lab Sample ID: 480-182588-5

Date Collected: 03/26/21 00:00

Matrix: Water

Date Received: 03/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			03/31/21 12:35	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/31/21 12:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/31/21 12:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/31/21 12:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/31/21 12:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/31/21 12:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/31/21 12:35	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			03/31/21 12:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			03/31/21 12:35	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			03/31/21 12:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/31/21 12:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/31/21 12:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/31/21 12:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/31/21 12:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/31/21 12:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/31/21 12:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/31/21 12:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/31/21 12:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/31/21 12:35	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			03/31/21 12:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/31/21 12:35	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			03/31/21 12:35	1
Benzene	ND		1.0	0.41	ug/L			03/31/21 12:35	1
Bromobenzene	ND		1.0	0.80	ug/L			03/31/21 12:35	1
Bromochloromethane	ND		1.0	0.87	ug/L			03/31/21 12:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/31/21 12:35	1
Bromoform	ND		1.0	0.26	ug/L			03/31/21 12:35	1
Bromomethane	ND		1.0	0.69	ug/L			03/31/21 12:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/31/21 12:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/31/21 12:35	1
Chloroethane	ND		1.0	0.32	ug/L			03/31/21 12:35	1
Chloroform	ND		1.0	0.34	ug/L			03/31/21 12:35	1
Chloromethane	ND		1.0	0.35	ug/L			03/31/21 12:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/31/21 12:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/31/21 12:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/31/21 12:35	1
Dibromomethane	ND		1.0	0.41	ug/L			03/31/21 12:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/31/21 12:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/31/21 12:35	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			03/31/21 12:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/31/21 12:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/31/21 12:35	1
Naphthalene	ND		1.0	0.43	ug/L			03/31/21 12:35	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/31/21 12:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/31/21 12:35	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			03/31/21 12:35	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			03/31/21 12:35	1
p-Cymene	ND		1.0	0.31	ug/L			03/31/21 12:35	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/31/21 12:35	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: TRIP BLANK 032621

Lab Sample ID: 480-182588-5

Date Collected: 03/26/21 00:00

Matrix: Water

Date Received: 03/27/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			03/31/21 12:35	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/31/21 12:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/31/21 12:35	1
Toluene	ND		1.0	0.51	ug/L			03/31/21 12:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/31/21 12:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/31/21 12:35	1
Trichloroethene	ND		1.0	0.46	ug/L			03/31/21 12:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/31/21 12:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/31/21 12:35	1
Xylenes, Total	ND		1.0	0.66	ug/L			03/31/21 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		03/31/21 12:35	1
4-Bromofluorobenzene (Surr)	95		73 - 120		03/31/21 12:35	1
Toluene-d8 (Surr)	99		80 - 120		03/31/21 12:35	1
Dibromofluoromethane (Surr)	96		75 - 123		03/31/21 12:35	1

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (77-120)	BFB (73-120)	TOL (80-120)	DBFM (75-123)
480-182588-1	RW-4 032621	107	101	99	98
480-182588-2	K-WELL 032621	107	101	98	99
480-182588-2 MS	K-WELL 032621	106	99	100	101
480-182588-2 MSD	K-WELL 032621	107	97	100	100
480-182588-3	DUP 032621	108	97	95	102
480-182588-5	TRIP BLANK 032621	105	95	99	96
LCS 480-574486/5	Lab Control Sample	103	100	101	95
MB 480-574486/7	Method Blank	107	100	99	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDA (50-150)	PFDoA (50-150)	PFHxA (50-150)	PFUnA (50-150)	PFTDA (50-150)	C3PFBS (50-150)	PFBA (25-150)	PFOA (50-150)
480-182588-1	RW-4 032621	96	85	101	94	86	99	93	100
480-182588-2	K-WELL 032621	99	84	99	90	81	97	92	103
480-182588-2 MS	K-WELL 032621	101	94	105	94	94	103	97	98
480-182588-2 MSD	K-WELL 032621	100	94	103	99	101	102	93	100
480-182588-3	DUP 032621	102	93	100	100	90	100	93	102
480-182588-4	EQUIPMENT BLANK 032621	94	98	96	88	88	93	102	95
LCS 200-165275/2-A	Lab Control Sample	101	100	102	99	94	105	110	99
LCS 200-165528/2-A	Lab Control Sample	91	88	90	91	90	92	97	92
LCSD 200-165528/3-A	Lab Control Sample Dup	94	94	93	90	85	92	99	93
MB 200-165275/1-A	Method Blank	99	101	101	99	89	95	104	100
MB 200-165528/1-A	Method Blank	101	94	97	93	89	94	97	92

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOS (50-150)	C4PFHA (50-150)	PFNA (50-150)	PFPeA (25-150)	PFOSA (25-150)	PFHxS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)
480-182588-1	RW-4 032621	98	104	101	97	89	99	94	90
480-182588-2	K-WELL 032621	96	101	97	99	94	94	94	98
480-182588-2 MS	K-WELL 032621	99	101	98	102	93	100	105	101
480-182588-2 MSD	K-WELL 032621	100	104	101	101	96	101	108	104
480-182588-3	DUP 032621	99	99	100	97	94	100	99	102
480-182588-4	EQUIPMENT BLANK 032621	93	96	95	96	83	93	103	96
LCS 200-165275/2-A	Lab Control Sample	96	105	99	106	86	101	101	100
LCS 200-165528/2-A	Lab Control Sample	87	93	94	94	77	96	94	90
LCSD 200-165528/3-A	Lab Control Sample Dup	92	96	96	94	72	88	98	99
MB 200-165275/1-A	Method Blank	96	100	102	101	86	99	109	103
MB 200-165528/1-A	Method Blank	93	95	94	98	83	94	99	94

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-182588-1	RW-4 032621	108	110
480-182588-2	K-WELL 032621	111	105
480-182588-2 MS	K-WELL 032621	106	115
480-182588-2 MSD	K-WELL 032621	106	114
480-182588-3	DUP 032621	108	108
480-182588-4	EQUIPMENT BLANK 032621	99	103
LCS 200-165275/2-A	Lab Control Sample	108	119
LCS 200-165528/2-A	Lab Control Sample	101	109
LCSD 200-165528/3-A	Lab Control Sample Dup	105	113
MB 200-165275/1-A	Method Blank	100	109
MB 200-165528/1-A	Method Blank	95	102

Surrogate Legend

PFDA = 13C2 PFDA
PFDoA = 13C2 PFDoA
PFHxA = 13C2 PFHxA
PFUnA = 13C2 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
PFOA = 13C4 PFOA

Eurofins TestAmerica, Buffalo

Isotope Dilution Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

PFOS = 13C4 PFOS
C4PFHA = 13C4 PFHpA
PFNA = 13C5 PFNA
PFPeA = 13C5 PFPeA
PFOSA = 13C8 FOSA
PFHxS = 18O2 PFHxS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-574486/7

Matrix: Water

Analysis Batch: 574486

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			03/31/21 10:47	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/31/21 10:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/31/21 10:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/31/21 10:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/31/21 10:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/31/21 10:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/31/21 10:47	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			03/31/21 10:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			03/31/21 10:47	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			03/31/21 10:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/31/21 10:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/31/21 10:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/31/21 10:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/31/21 10:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/31/21 10:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/31/21 10:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/31/21 10:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/31/21 10:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/31/21 10:47	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			03/31/21 10:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/31/21 10:47	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			03/31/21 10:47	1
Benzene	ND		1.0	0.41	ug/L			03/31/21 10:47	1
Bromobenzene	ND		1.0	0.80	ug/L			03/31/21 10:47	1
Bromochloromethane	ND		1.0	0.87	ug/L			03/31/21 10:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/31/21 10:47	1
Bromoform	ND		1.0	0.26	ug/L			03/31/21 10:47	1
Bromomethane	ND		1.0	0.69	ug/L			03/31/21 10:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/31/21 10:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/31/21 10:47	1
Chloroethane	ND		1.0	0.32	ug/L			03/31/21 10:47	1
Chloroform	ND		1.0	0.34	ug/L			03/31/21 10:47	1
Chloromethane	ND		1.0	0.35	ug/L			03/31/21 10:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/31/21 10:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/31/21 10:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/31/21 10:47	1
Dibromomethane	ND		1.0	0.41	ug/L			03/31/21 10:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/31/21 10:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/31/21 10:47	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			03/31/21 10:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/31/21 10:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/31/21 10:47	1
Naphthalene	ND		1.0	0.43	ug/L			03/31/21 10:47	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/31/21 10:47	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/31/21 10:47	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			03/31/21 10:47	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			03/31/21 10:47	1
p-Cymene	ND		1.0	0.31	ug/L			03/31/21 10:47	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-574486/7

Matrix: Water

Analysis Batch: 574486

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/31/21 10:47	1
Styrene	ND		1.0	0.73	ug/L			03/31/21 10:47	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			03/31/21 10:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/31/21 10:47	1
Toluene	ND		1.0	0.51	ug/L			03/31/21 10:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/31/21 10:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/31/21 10:47	1
Trichloroethene	ND		1.0	0.46	ug/L			03/31/21 10:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/31/21 10:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/31/21 10:47	1
Xylenes, Total	ND		1.0	0.66	ug/L			03/31/21 10:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		03/31/21 10:47	1
4-Bromofluorobenzene (Surr)	100		73 - 120		03/31/21 10:47	1
Toluene-d8 (Surr)	99		80 - 120		03/31/21 10:47	1
Dibromofluoromethane (Surr)	99		75 - 123		03/31/21 10:47	1

Lab Sample ID: LCS 480-574486/5

Matrix: Water

Analysis Batch: 574486

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.4		ug/L		106	80 - 120
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.6		ug/L		106	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.2		ug/L		101	61 - 148
1,1,2-Trichloroethane	25.0	27.2		ug/L		109	76 - 122
1,1-Dichloroethane	25.0	26.7		ug/L		107	77 - 120
1,1-Dichloroethene	25.0	25.9		ug/L		104	66 - 127
1,1-Dichloropropene	25.0	25.8		ug/L		103	72 - 122
1,2,3-Trichlorobenzene	25.0	26.5		ug/L		106	75 - 123
1,2,3-Trichloropropane	25.0	27.3		ug/L		109	68 - 122
1,2,4-Trichlorobenzene	25.0	27.2		ug/L		109	79 - 122
1,2,4-Trimethylbenzene	25.0	26.6		ug/L		107	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	28.3		ug/L		113	56 - 134
1,2-Dibromoethane	25.0	28.6		ug/L		115	77 - 120
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 124
1,2-Dichloroethane	25.0	27.6		ug/L		110	75 - 120
1,2-Dichloropropane	25.0	26.4		ug/L		106	76 - 120
1,3,5-Trimethylbenzene	25.0	26.7		ug/L		107	77 - 121
1,3-Dichlorobenzene	25.0	27.0		ug/L		108	77 - 120
1,3-Dichloropropane	25.0	26.1		ug/L		104	75 - 120
1,4-Dichlorobenzene	25.0	26.5		ug/L		106	80 - 120
2,2-Dichloropropane	25.0	25.1		ug/L		100	63 - 136
Benzene	25.0	25.5		ug/L		102	71 - 124
Bromobenzene	25.0	25.9		ug/L		103	78 - 120
Bromochloromethane	25.0	25.4		ug/L		102	72 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-574486/5

Matrix: Water

Analysis Batch: 574486

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	25.0	26.8		ug/L		107	80 - 122
Bromoform	25.0	29.0		ug/L		116	61 - 132
Bromomethane	25.0	21.2		ug/L		85	55 - 144
Carbon tetrachloride	25.0	26.5		ug/L		106	72 - 134
Chlorobenzene	25.0	26.4		ug/L		105	80 - 120
Chloroethane	25.0	22.8		ug/L		91	69 - 136
Chloroform	25.0	26.7		ug/L		107	73 - 127
Chloromethane	25.0	28.8		ug/L		115	68 - 124
cis-1,2-Dichloroethene	25.0	26.3		ug/L		105	74 - 124
cis-1,3-Dichloropropene	25.0	26.6		ug/L		106	74 - 124
Dibromochloromethane	25.0	28.3		ug/L		113	75 - 125
Dibromomethane	25.0	25.6		ug/L		102	76 - 127
Dichlorodifluoromethane	25.0	32.5		ug/L		130	59 - 135
Ethylbenzene	25.0	27.4		ug/L		110	77 - 123
Hexachlorobutadiene	25.0	25.7		ug/L		103	68 - 131
Isopropylbenzene	25.0	26.2		ug/L		105	77 - 122
Methylene Chloride	25.0	23.9		ug/L		95	75 - 124
Naphthalene	25.0	27.3		ug/L		109	66 - 125
n-Butylbenzene	25.0	26.8		ug/L		107	71 - 128
N-Propylbenzene	25.0	26.1		ug/L		104	75 - 127
o-Chlorotoluene	25.0	27.5		ug/L		110	76 - 121
p-Chlorotoluene	25.0	25.5		ug/L		102	77 - 121
p-Cymene	25.0	27.2		ug/L		109	73 - 120
sec-Butylbenzene	25.0	26.9		ug/L		108	74 - 127
Styrene	25.0	25.7		ug/L		103	80 - 120
tert-Butylbenzene	25.0	26.7		ug/L		107	75 - 123
Tetrachloroethene	25.0	26.1		ug/L		104	74 - 122
Toluene	25.0	25.7		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	73 - 127
trans-1,3-Dichloropropene	25.0	29.1		ug/L		116	80 - 120
Trichloroethene	25.0	25.7		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	26.1		ug/L		104	62 - 150
Vinyl chloride	25.0	27.1		ug/L		108	65 - 133
Xylenes, Total	50.0	53.7		ug/L		107	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	95		75 - 123

Lab Sample ID: 480-182588-2 MS

Matrix: Water

Analysis Batch: 574486

Client Sample ID: K-WELL 032621

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	53.0		ug/L		106	80 - 120
1,1,1-Trichloroethane	5.9		50.0	61.3		ug/L		111	73 - 126

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-182588-2 MS

Matrix: Water

Analysis Batch: 574486

Client Sample ID: K-WELL 032621

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	ND		50.0	52.9		ug/L		106	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1		50.0	58.2		ug/L		104	61 - 148
1,1,2-Trichloroethane	ND		50.0	55.4		ug/L		111	76 - 122
1,1-Dichloroethane	3.5		50.0	58.1		ug/L		109	77 - 120
1,1-Dichloroethene	1.1	J	50.0	53.5		ug/L		105	66 - 127
1,1-Dichloropropene	ND		50.0	53.3		ug/L		107	72 - 122
1,2,3-Trichlorobenzene	ND		50.0	51.5		ug/L		103	75 - 123
1,2,3-Trichloropropane	ND		50.0	53.6		ug/L		107	68 - 122
1,2,4-Trichlorobenzene	ND		50.0	50.8		ug/L		102	79 - 122
1,2,4-Trimethylbenzene	ND		50.0	52.1		ug/L		104	76 - 121
1,2-Dibromo-3-Chloropropane	ND		50.0	55.3		ug/L		111	56 - 134
1,2-Dibromoethane	ND		50.0	56.3		ug/L		113	77 - 120
1,2-Dichlorobenzene	ND		50.0	50.9		ug/L		102	80 - 124
1,2-Dichloroethane	ND		50.0	57.6		ug/L		115	75 - 120
1,2-Dichloropropane	ND		50.0	51.8		ug/L		104	76 - 120
1,3,5-Trimethylbenzene	ND		50.0	51.4		ug/L		103	77 - 121
1,3-Dichlorobenzene	ND		50.0	53.4		ug/L		107	77 - 120
1,3-Dichloropropane	ND		50.0	51.8		ug/L		104	75 - 120
1,4-Dichlorobenzene	ND		50.0	51.4		ug/L		103	78 - 124
2,2-Dichloropropane	ND		50.0	47.5		ug/L		95	63 - 136
Benzene	ND		50.0	52.3		ug/L		105	71 - 124
Bromobenzene	ND		50.0	50.3		ug/L		101	78 - 120
Bromochloromethane	ND		50.0	52.4		ug/L		105	72 - 130
Bromodichloromethane	ND		50.0	54.5		ug/L		109	80 - 122
Bromoform	ND		50.0	50.3		ug/L		101	61 - 132
Bromomethane	ND		50.0	42.3		ug/L		85	55 - 144
Carbon tetrachloride	ND		50.0	54.7		ug/L		109	72 - 134
Chlorobenzene	ND		50.0	53.2		ug/L		106	80 - 120
Chloroethane	ND		50.0	42.7		ug/L		85	69 - 136
Chloroform	ND		50.0	55.7		ug/L		111	73 - 127
Chloromethane	ND		50.0	60.0		ug/L		120	68 - 124
cis-1,2-Dichloroethene	11		50.0	64.3		ug/L		107	74 - 124
cis-1,3-Dichloropropene	ND		50.0	50.9		ug/L		102	74 - 124
Dibromochloromethane	ND		50.0	54.7		ug/L		109	75 - 125
Dibromomethane	ND		50.0	53.3		ug/L		107	76 - 127
Dichlorodifluoromethane	ND		50.0	64.8		ug/L		130	59 - 135
Ethylbenzene	ND		50.0	55.7		ug/L		111	77 - 123
Hexachlorobutadiene	ND		50.0	46.6		ug/L		93	68 - 131
Isopropylbenzene	ND		50.0	51.4		ug/L		103	77 - 122
Methylene Chloride	ND		50.0	51.6		ug/L		103	75 - 124
Naphthalene	ND		50.0	51.6		ug/L		103	66 - 125
n-Butylbenzene	ND		50.0	51.0		ug/L		102	71 - 128
N-Propylbenzene	ND		50.0	50.2		ug/L		100	75 - 127
o-Chlorotoluene	ND		50.0	53.1		ug/L		106	76 - 121
p-Chlorotoluene	ND		50.0	49.9		ug/L		100	77 - 121
p-Cymene	ND		50.0	51.4		ug/L		103	73 - 120
sec-Butylbenzene	ND		50.0	51.7		ug/L		103	74 - 127
Styrene	ND		50.0	51.2		ug/L		102	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-182588-2 MS

Matrix: Water

Analysis Batch: 574486

Client Sample ID: K-WELL 032621

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	ND		50.0	52.7		ug/L		105	75 - 123
Tetrachloroethene	110	F1	50.0	148	F1	ug/L		73	74 - 122
Toluene	ND		50.0	51.8		ug/L		104	80 - 122
trans-1,2-Dichloroethene	ND		50.0	53.3		ug/L		107	73 - 127
trans-1,3-Dichloropropene	ND		50.0	54.2		ug/L		108	80 - 120
Trichloroethene	8.2		50.0	59.9		ug/L		103	74 - 123
Trichlorofluoromethane	ND		50.0	53.5		ug/L		107	62 - 150
Vinyl chloride	ND		50.0	56.4		ug/L		113	65 - 133
Xylenes, Total	ND		100	107		ug/L		107	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Lab Sample ID: 480-182588-2 MSD

Matrix: Water

Analysis Batch: 574486

Client Sample ID: K-WELL 032621

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	53.8		ug/L		108	80 - 120	1	20
1,1,1-Trichloroethane	5.9		50.0	60.6		ug/L		110	73 - 126	1	15
1,1,2,2-Tetrachloroethane	ND		50.0	53.3		ug/L		107	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1		50.0	54.9		ug/L		98	61 - 148	6	20
1,1,2-Trichloroethane	ND		50.0	56.2		ug/L		112	76 - 122	1	15
1,1-Dichloroethane	3.5		50.0	58.7		ug/L		110	77 - 120	1	20
1,1-Dichloroethene	1.1	J	50.0	54.7		ug/L		107	66 - 127	2	16
1,1-Dichloropropene	ND		50.0	52.3		ug/L		105	72 - 122	2	20
1,2,3-Trichlorobenzene	ND		50.0	52.3		ug/L		105	75 - 123	1	20
1,2,3-Trichloropropane	ND		50.0	52.0		ug/L		104	68 - 122	3	14
1,2,4-Trichlorobenzene	ND		50.0	52.0		ug/L		104	79 - 122	2	20
1,2,4-Trimethylbenzene	ND		50.0	51.3		ug/L		103	76 - 121	1	20
1,2-Dibromo-3-Chloropropane	ND		50.0	53.9		ug/L		108	56 - 134	3	15
1,2-Dibromoethane	ND		50.0	57.4		ug/L		115	77 - 120	2	15
1,2-Dichlorobenzene	ND		50.0	50.9		ug/L		102	80 - 124	0	20
1,2-Dichloroethane	ND		50.0	58.1		ug/L		116	75 - 120	1	20
1,2-Dichloropropane	ND		50.0	54.4		ug/L		109	76 - 120	5	20
1,3,5-Trimethylbenzene	ND		50.0	50.7		ug/L		101	77 - 121	2	20
1,3-Dichlorobenzene	ND		50.0	52.3		ug/L		105	77 - 120	2	20
1,3-Dichloropropane	ND		50.0	54.0		ug/L		108	75 - 120	4	20
1,4-Dichlorobenzene	ND		50.0	51.2		ug/L		102	78 - 124	0	20
2,2-Dichloropropane	ND		50.0	46.1		ug/L		92	63 - 136	3	20
Benzene	ND		50.0	52.6		ug/L		105	71 - 124	1	13
Bromobenzene	ND		50.0	49.7		ug/L		99	78 - 120	1	15
Bromochloromethane	ND		50.0	53.5		ug/L		107	72 - 130	2	15
Bromodichloromethane	ND		50.0	54.3		ug/L		109	80 - 122	0	15
Bromoform	ND		50.0	54.3		ug/L		109	61 - 132	8	15

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-182588-2 MSD

Matrix: Water

Analysis Batch: 574486

Client Sample ID: K-WELL 032621

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		50.0	41.2		ug/L		82	55 - 144	3	15
Carbon tetrachloride	ND		50.0	55.2		ug/L		110	72 - 134	1	15
Chlorobenzene	ND		50.0	54.7		ug/L		109	80 - 120	3	25
Chloroethane	ND		50.0	44.6		ug/L		89	69 - 136	4	15
Chloroform	ND		50.0	55.4		ug/L		111	73 - 127	1	20
Chloromethane	ND		50.0	61.9		ug/L		124	68 - 124	3	15
cis-1,2-Dichloroethene	11		50.0	63.2		ug/L		104	74 - 124	2	15
cis-1,3-Dichloropropene	ND		50.0	52.5		ug/L		105	74 - 124	3	15
Dibromochloromethane	ND		50.0	55.2		ug/L		110	75 - 125	1	15
Dibromomethane	ND		50.0	52.9		ug/L		106	76 - 127	1	15
Dichlorodifluoromethane	ND		50.0	64.8		ug/L		130	59 - 135	0	20
Ethylbenzene	ND		50.0	55.9		ug/L		112	77 - 123	0	15
Hexachlorobutadiene	ND		50.0	47.5		ug/L		95	68 - 131	2	20
Isopropylbenzene	ND		50.0	50.8		ug/L		102	77 - 122	1	20
Methylene Chloride	ND		50.0	52.4		ug/L		105	75 - 124	2	15
Naphthalene	ND		50.0	51.8		ug/L		104	66 - 125	0	20
n-Butylbenzene	ND		50.0	49.8		ug/L		100	71 - 128	2	15
N-Propylbenzene	ND		50.0	50.8		ug/L		102	75 - 127	1	15
o-Chlorotoluene	ND		50.0	52.5		ug/L		105	76 - 121	1	20
p-Chlorotoluene	ND		50.0	50.4		ug/L		101	77 - 121	1	15
p-Cymene	ND		50.0	51.9		ug/L		104	73 - 120	1	20
sec-Butylbenzene	ND		50.0	50.9		ug/L		102	74 - 127	1	15
Styrene	ND		50.0	53.3		ug/L		107	80 - 120	4	20
tert-Butylbenzene	ND		50.0	52.9		ug/L		106	75 - 123	0	15
Tetrachloroethene	110	F1	50.0	148		ug/L		74	74 - 122	0	20
Toluene	ND		50.0	52.8		ug/L		106	80 - 122	2	15
trans-1,2-Dichloroethene	ND		50.0	54.6		ug/L		109	73 - 127	2	20
trans-1,3-Dichloropropene	ND		50.0	53.8		ug/L		108	80 - 120	1	15
Trichloroethene	8.2		50.0	60.4		ug/L		104	74 - 123	1	16
Trichlorofluoromethane	ND		50.0	51.8		ug/L		104	62 - 150	3	20
Vinyl chloride	ND		50.0	56.6		ug/L		113	65 - 133	0	15
Xylenes, Total	ND		100	110		ug/L		110	76 - 122	3	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	100		75 - 123

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-165275/1-A

Matrix: Water

Analysis Batch: 165316

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.39	ng/L		03/29/21 08:27	03/29/21 16:49	1

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-165275/1-A

Matrix: Water

Analysis Batch: 165316

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	1.1	ng/L		03/29/21 08:27	03/29/21 16:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.74	ng/L		03/29/21 08:27	03/29/21 16:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.90	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorobutanesulfonic acid (PFBS)	0.299	J	2.0	0.25	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorobutanoic acid (PFBA)	ND		5.0	0.89	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorodecanoic acid (PFDA)	0.307	J	2.0	0.30	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.39	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.23	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluoroheptanoic acid (PFHpA)	0.307	J	2.0	0.24	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorohexanesulfonic acid (PFHxS)	0.329	J	2.0	0.30	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.45	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.28	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.58	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.29	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.42	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.47	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.63	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		03/29/21 08:27	03/29/21 16:49	1
Perfluoroundecanoic acid (PFUnA)	0.410	J	2.0	0.34	ng/L		03/29/21 08:27	03/29/21 16:49	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	99		50 - 150	03/29/21 08:27	03/29/21 16:49	1
13C2 PFDoA	101		50 - 150	03/29/21 08:27	03/29/21 16:49	1
13C2 PFHxA	101		50 - 150	03/29/21 08:27	03/29/21 16:49	1
13C2 PFUnA	99		50 - 150	03/29/21 08:27	03/29/21 16:49	1
13C2 PFTeDA	89		50 - 150	03/29/21 08:27	03/29/21 16:49	1
13C3 PFBS	95		50 - 150	03/29/21 08:27	03/29/21 16:49	1
13C4 PFBA	104		25 - 150	03/29/21 08:27	03/29/21 16:49	1
13C4 PFOA	100		50 - 150	03/29/21 08:27	03/29/21 16:49	1
13C4 PFOS	96		50 - 150	03/29/21 08:27	03/29/21 16:49	1
13C4 PFHpA	100		50 - 150	03/29/21 08:27	03/29/21 16:49	1
13C5 PFNA	102		50 - 150	03/29/21 08:27	03/29/21 16:49	1
13C5 PFPeA	101		25 - 150	03/29/21 08:27	03/29/21 16:49	1
13C8 FOSA	86		25 - 150	03/29/21 08:27	03/29/21 16:49	1
18O2 PFHxS	99		50 - 150	03/29/21 08:27	03/29/21 16:49	1
d3-NMeFOSAA	109		50 - 150	03/29/21 08:27	03/29/21 16:49	1
d5-NEtFOSAA	103		50 - 150	03/29/21 08:27	03/29/21 16:49	1
M2-6:2 FTS	100		25 - 150	03/29/21 08:27	03/29/21 16:49	1
M2-8:2 FTS	109		25 - 150	03/29/21 08:27	03/29/21 16:49	1

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-165275/2-A

Matrix: Water

Analysis Batch: 165316

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	34.4		ng/L		90	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	35.9		ng/L		95	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.0		ng/L		92	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	36.0		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	31.1		ng/L		88	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	35.4		ng/L		88	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	34.4		ng/L		89	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	36.4		ng/L		91	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	34.8		ng/L		87	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	34.6		ng/L		91	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	37.3		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.2		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	36.3		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	40.0	36.2		ng/L		90	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	37.6		ng/L		94	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	35.7		ng/L		96	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	36.2		ng/L		91	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	35.5		ng/L		89	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	33.8		ng/L		84	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	34.9		ng/L		87	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	35.3		ng/L		88	70 - 130

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	101		50 - 150
13C2 PFDoA	100		50 - 150
13C2 PFHxA	102		50 - 150
13C2 PFUnA	99		50 - 150
13C2 PFTeDA	94		50 - 150
13C3 PFBS	105		50 - 150
13C4 PFBA	110		25 - 150
13C4 PFOA	99		50 - 150
13C4 PFOS	96		50 - 150
13C4 PFHpA	105		50 - 150
13C5 PFNA	99		50 - 150
13C5 PFPeA	106		25 - 150
13C8 FOSA	86		25 - 150
18O2 PFHxS	101		50 - 150
d3-NMeFOSAA	101		50 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-165275/2-A

Matrix: Water

Analysis Batch: 165316

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165275

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	100		50 - 150
M2-6:2 FTS	108		25 - 150
M2-8:2 FTS	119		25 - 150

Lab Sample ID: 480-182588-2 MS

Matrix: Water

Analysis Batch: 165316

Client Sample ID: K-WELL 032621

Prep Type: Total/NA

Prep Batch: 165275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		33.6	29.4		ng/L		88	40 - 160
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		33.3	30.9		ng/L		93	40 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		35.1	34.4		ng/L		98	40 - 160
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		35.1	28.4		ng/L		81	40 - 160
Perfluorobutanesulfonic acid (PFBS)	0.65	J B	31.0	28.3		ng/L		89	40 - 160
Perfluorobutanoic acid (PFBA)	2.8	J	35.1	33.4		ng/L		87	40 - 160
Perfluorodecanesulfonic acid (PFDS)	8.9		33.8	37.6		ng/L		85	40 - 160
Perfluorodecanoic acid (PFDA)	0.41	J B	35.1	31.5		ng/L		89	40 - 160
Perfluorododecanoic acid (PFDoA)	ND		35.1	29.3		ng/L		84	40 - 160
Perfluoroheptanesulfonic Acid (PFHpS)	0.70	J	33.4	29.5		ng/L		86	40 - 160
Perfluoroheptanoic acid (PFHpA)	2.5	B	35.1	35.2		ng/L		93	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	2.5	B	31.9	31.0		ng/L		89	40 - 160
Perfluorohexanoic acid (PFHxA)	2.2		35.1	32.9		ng/L		87	40 - 160
Perfluorononanoic acid (PFNA)	0.77	J I	35.1	31.6		ng/L		88	40 - 160
Perfluorooctanesulfonamide (PFOSA)	1.4	J	35.1	34.9		ng/L		95	40 - 160
Perfluorooctanesulfonic acid (PFOS)	73		32.5	103		ng/L		91	40 - 160
Perfluorooctanoic acid (PFOA)	11		35.1	43.4		ng/L		92	40 - 160
Perfluoropentanoic acid (PFPeA)	2.6		35.1	34.3		ng/L		90	40 - 160
Perfluorotetradecanoic acid (PFTeA)	ND		35.1	30.2		ng/L		86	40 - 160
Perfluorotridecanoic acid (PFTriA)	ND		35.1	28.2		ng/L		80	40 - 160
Perfluoroundecanoic acid (PFUnA)	ND		35.1	32.4		ng/L		92	40 - 160

Isotope Dilution	MS		Limits
	%Recovery	Qualifier	
13C2 PFDA	101		50 - 150
13C2 PFDoA	94		50 - 150
13C2 PFHxA	105		50 - 150
13C2 PFUnA	94		50 - 150
13C2 PFTeDA	94		50 - 150
13C3 PFBS	103		50 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-182588-2 MS

Matrix: Water

Analysis Batch: 165316

Client Sample ID: K-WELL 032621

Prep Type: Total/NA

Prep Batch: 165275

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	97		25 - 150
13C4 PFOA	98		50 - 150
13C4 PFOS	99		50 - 150
13C4 PFHpA	101		50 - 150
13C5 PFNA	98		50 - 150
13C5 PFPeA	102		25 - 150
13C8 FOSA	93		25 - 150
18O2 PFHxS	100		50 - 150
d3-NMeFOSAA	105		50 - 150
d5-NEtFOSAA	101		50 - 150
M2-6:2 FTS	106		25 - 150
M2-8:2 FTS	115		25 - 150

Lab Sample ID: 480-182588-2 MSD

Matrix: Water

Analysis Batch: 165316

Client Sample ID: K-WELL 032621

Prep Type: Total/NA

Prep Batch: 165275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		33.5	28.8		ng/L		86	40 - 160	2	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		33.2	32.3		ng/L		97	40 - 160	4	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		35.0	31.8		ng/L		91	40 - 160	8	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		35.0	30.4		ng/L		87	40 - 160	7	20
Perfluorobutanesulfonic acid (PFBS)	0.65	J B	31.0	27.8		ng/L		88	40 - 160	2	20
Perfluorobutanoic acid (PFBA)	2.8	J	35.0	32.8		ng/L		86	40 - 160	2	30
Perfluorodecanesulfonic acid (PFDS)	8.9		33.8	38.8		ng/L		88	40 - 160	3	30
Perfluorodecanoic acid (PFDA)	0.41	J B	35.0	31.7		ng/L		89	40 - 160	1	20
Perfluorododecanoic acid (PFDoA)	ND		35.0	30.3		ng/L		87	40 - 160	3	20
Perfluoroheptanesulfonic Acid (PFHpS)	0.70	J	33.3	29.2		ng/L		85	40 - 160	1	30
Perfluoroheptanoic acid (PFHpA)	2.5	B	35.0	33.3		ng/L		88	40 - 160	5	20
Perfluorohexanesulfonic acid (PFHxS)	2.5	B	31.9	30.2		ng/L		87	40 - 160	3	20
Perfluorohexanoic acid (PFHxA)	2.2		35.0	33.3		ng/L		89	40 - 160	1	20
Perfluorononanoic acid (PFNA)	0.77	J I	35.0	30.1		ng/L		84	40 - 160	5	20
Perfluorooctanesulfonamide (PFOSA)	1.4	J	35.0	32.1		ng/L		88	40 - 160	8	30
Perfluorooctanesulfonic acid (PFOS)	73		32.5	100		ng/L		84	40 - 160	2	20
Perfluorooctanoic acid (PFOA)	11		35.0	40.7		ng/L		85	40 - 160	6	20
Perfluoropentanoic acid (PFPeA)	2.6		35.0	33.2		ng/L		87	40 - 160	3	30
Perfluorotetradecanoic acid (PFTeA)	ND		35.0	30.6		ng/L		87	40 - 160	1	20
Perfluorotridecanoic acid (PFTriA)	ND		35.0	29.1		ng/L		83	40 - 160	3	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-182588-2 MSD

Matrix: Water

Analysis Batch: 165316

Client Sample ID: K-WELL 032621

Prep Type: Total/NA

Prep Batch: 165275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluoroundecanoic acid (PFUnA)	ND		35.0	29.9		ng/L		85	40 - 160	8	20
Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits								
13C2 PFDA	100		50 - 150								
13C2 PFDoA	94		50 - 150								
13C2 PFHxA	103		50 - 150								
13C2 PFUnA	99		50 - 150								
13C2 PFTeDA	101		50 - 150								
13C3 PFBS	102		50 - 150								
13C4 PFBA	93		25 - 150								
13C4 PFOA	100		50 - 150								
13C4 PFOS	100		50 - 150								
13C4 PFHpA	104		50 - 150								
13C5 PFNA	101		50 - 150								
13C5 PFPeA	101		25 - 150								
13C8 FOSA	96		25 - 150								
18O2 PFHxS	101		50 - 150								
d3-NMeFOSAA	108		50 - 150								
d5-NEtFOSAA	104		50 - 150								
M2-6:2 FTS	106		25 - 150								
M2-8:2 FTS	114		25 - 150								

Lab Sample ID: MB 200-165528/1-A

Matrix: Water

Analysis Batch: 165538

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.39	ng/L		04/05/21 13:47	04/05/21 20:46	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	1.1	ng/L		04/05/21 13:47	04/05/21 20:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.74	ng/L		04/05/21 13:47	04/05/21 20:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.90	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.25	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorobutanoic acid (PFBA)	ND		5.0	0.89	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.30	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.39	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.23	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.24	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.30	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.45	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.28	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.58	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.29	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.42	ng/L		04/05/21 13:47	04/05/21 20:46	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-165528/1-A

Matrix: Water

Analysis Batch: 165538

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 165528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.47	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.63	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		04/05/21 13:47	04/05/21 20:46	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34	ng/L		04/05/21 13:47	04/05/21 20:46	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	101		50 - 150	04/05/21 13:47	04/05/21 20:46	1
13C2 PFDoA	94		50 - 150	04/05/21 13:47	04/05/21 20:46	1
13C2 PFHxA	97		50 - 150	04/05/21 13:47	04/05/21 20:46	1
13C2 PFUnA	93		50 - 150	04/05/21 13:47	04/05/21 20:46	1
13C2 PFTeDA	89		50 - 150	04/05/21 13:47	04/05/21 20:46	1
13C3 PFBS	94		50 - 150	04/05/21 13:47	04/05/21 20:46	1
13C4 PFBA	97		25 - 150	04/05/21 13:47	04/05/21 20:46	1
13C4 PFOA	92		50 - 150	04/05/21 13:47	04/05/21 20:46	1
13C4 PFOS	93		50 - 150	04/05/21 13:47	04/05/21 20:46	1
13C4 PFHpA	95		50 - 150	04/05/21 13:47	04/05/21 20:46	1
13C5 PFNA	94		50 - 150	04/05/21 13:47	04/05/21 20:46	1
13C5 PFPeA	98		25 - 150	04/05/21 13:47	04/05/21 20:46	1
13C8 FOSA	83		25 - 150	04/05/21 13:47	04/05/21 20:46	1
18O2 PFHxS	94		50 - 150	04/05/21 13:47	04/05/21 20:46	1
d3-NMeFOSAA	99		50 - 150	04/05/21 13:47	04/05/21 20:46	1
d5-NEtFOSAA	94		50 - 150	04/05/21 13:47	04/05/21 20:46	1
M2-6:2 FTS	95		25 - 150	04/05/21 13:47	04/05/21 20:46	1
M2-8:2 FTS	102		25 - 150	04/05/21 13:47	04/05/21 20:46	1

Lab Sample ID: LCS 200-165528/2-A

Matrix: Water

Analysis Batch: 165538

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	46.8		ng/L		122	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	43.8		ng/L		115	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	48.8		ng/L		122	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.7		ng/L		107	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	39.8		ng/L		113	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	45.8		ng/L		114	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	42.7		ng/L		111	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	47.6		ng/L		119	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	48.3		ng/L		121	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	43.5		ng/L		114	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	47.4		ng/L		119	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	39.0		ng/L		107	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-165528/2-A

Matrix: Water

Analysis Batch: 165538

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 165528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid (PFHxA)	40.0	45.9		ng/L		115	70 - 130
Perfluorononanoic acid (PFNA)	40.0	43.5		ng/L		109	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	46.1		ng/L		115	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	44.4		ng/L		120	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	46.7		ng/L		117	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	46.3		ng/L		116	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	46.9		ng/L		117	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	44.2		ng/L		111	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	46.6		ng/L		117	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFDA	91		50 - 150
13C2 PFDoA	88		50 - 150
13C2 PFHxA	90		50 - 150
13C2 PFUnA	91		50 - 150
13C2 PFTeDA	90		50 - 150
13C3 PFBS	92		50 - 150
13C4 PFBA	97		25 - 150
13C4 PFOA	92		50 - 150
13C4 PFOS	87		50 - 150
13C4 PFHpA	93		50 - 150
13C5 PFNA	94		50 - 150
13C5 PFPeA	94		25 - 150
13C8 FOSA	77		25 - 150
18O2 PFHxS	96		50 - 150
d3-NMeFOSAA	94		50 - 150
d5-NEtFOSAA	90		50 - 150
M2-6:2 FTS	101		25 - 150
M2-8:2 FTS	109		25 - 150

Lab Sample ID: LCSD 200-165528/3-A

Matrix: Water

Analysis Batch: 165538

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 165528

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	45.1		ng/L		118	50 - 150	4	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	47.9		ng/L		126	50 - 150	9	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	47.5		ng/L		119	70 - 130	3	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	45.9		ng/L		115	70 - 130	7	20
Perfluorobutanesulfonic acid (PFBS)	35.4	42.0		ng/L		119	70 - 130	5	20
Perfluorobutanoic acid (PFBA)	40.0	46.7		ng/L		117	50 - 150	2	30

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 200-165528/3-A

Matrix: Water

Analysis Batch: 165538

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 165528

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorodecanesulfonic acid (PFDS)	38.6	43.3		ng/L		112	50 - 150	2	30
Perfluorodecanoic acid (PFDA)	40.0	49.6		ng/L		124	70 - 130	4	20
Perfluorododecanoic acid (PFDoA)	40.0	45.5		ng/L		114	70 - 130	6	20
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	44.4		ng/L		117	50 - 150	2	30
Perfluoroheptanoic acid (PFHpA)	40.0	48.5		ng/L		121	70 - 130	2	20
Perfluorohexanesulfonic acid (PFHxS)	36.4	44.6		ng/L		122	70 - 130	13	20
Perfluorohexanoic acid (PFHxA)	40.0	46.0		ng/L		115	70 - 130	0	20
Perfluorononanoic acid (PFNA)	40.0	46.9		ng/L		117	70 - 130	8	20
Perfluorooctanesulfonamide (PFOSA)	40.0	48.2		ng/L		120	50 - 150	4	30
Perfluorooctanesulfonic acid (PFOS)	37.1	45.3		ng/L		122	70 - 130	2	20
Perfluorooctanoic acid (PFOA)	40.0	48.3		ng/L		121	70 - 130	3	20
Perfluoropentanoic acid (PFPeA)	40.0	48.2		ng/L		120	50 - 150	4	30
Perfluorotetradecanoic acid (PFTeA)	40.0	47.4		ng/L		119	70 - 130	1	20
Perfluorotridecanoic acid (PFTriA)	40.0	45.1		ng/L		113	70 - 130	2	20
Perfluoroundecanoic acid (PFUnA)	40.0	50.4		ng/L		126	70 - 130	8	20

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C2 PFDA	94		50 - 150
13C2 PFDoA	94		50 - 150
13C2 PFHxA	93		50 - 150
13C2 PFUnA	90		50 - 150
13C2 PFTeDA	85		50 - 150
13C3 PFBS	92		50 - 150
13C4 PFBA	99		25 - 150
13C4 PFOA	93		50 - 150
13C4 PFOS	92		50 - 150
13C4 PFHpA	96		50 - 150
13C5 PFNA	96		50 - 150
13C5 PFPeA	94		25 - 150
13C8 FOSA	72		25 - 150
18O2 PFHxS	88		50 - 150
d3-NMeFOSAA	98		50 - 150
d5-NEtFOSAA	99		50 - 150
M2-6:2 FTS	105		25 - 150
M2-8:2 FTS	113		25 - 150

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

GC/MS VOA

Analysis Batch: 574486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182588-1	RW-4 032621	Total/NA	Water	8260C	
480-182588-2	K-WELL 032621	Total/NA	Water	8260C	
480-182588-3	DUP 032621	Total/NA	Water	8260C	
480-182588-5	TRIP BLANK 032621	Total/NA	Water	8260C	
MB 480-574486/7	Method Blank	Total/NA	Water	8260C	
LCS 480-574486/5	Lab Control Sample	Total/NA	Water	8260C	
480-182588-2 MS	K-WELL 032621	Total/NA	Water	8260C	
480-182588-2 MSD	K-WELL 032621	Total/NA	Water	8260C	

LCMS

Prep Batch: 165275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182588-1	RW-4 032621	Total/NA	Water	3535	
480-182588-2	K-WELL 032621	Total/NA	Water	3535	
480-182588-3	DUP 032621	Total/NA	Water	3535	
MB 200-165275/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-165275/2-A	Lab Control Sample	Total/NA	Water	3535	
480-182588-2 MS	K-WELL 032621	Total/NA	Water	3535	
480-182588-2 MSD	K-WELL 032621	Total/NA	Water	3535	

Analysis Batch: 165316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182588-1	RW-4 032621	Total/NA	Water	537 (modified)	165275
480-182588-2	K-WELL 032621	Total/NA	Water	537 (modified)	165275
480-182588-3	DUP 032621	Total/NA	Water	537 (modified)	165275
MB 200-165275/1-A	Method Blank	Total/NA	Water	537 (modified)	165275
LCS 200-165275/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	165275
480-182588-2 MS	K-WELL 032621	Total/NA	Water	537 (modified)	165275
480-182588-2 MSD	K-WELL 032621	Total/NA	Water	537 (modified)	165275

Prep Batch: 165528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182588-4	EQUIPMENT BLANK 032621	Total/NA	Water	3535	
MB 200-165528/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-165528/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-165528/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 165538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182588-4	EQUIPMENT BLANK 032621	Total/NA	Water	537 (modified)	165528
MB 200-165528/1-A	Method Blank	Total/NA	Water	537 (modified)	165528
LCS 200-165528/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	165528
LCSD 200-165528/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	165528

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Client Sample ID: RW-4 032621

Lab Sample ID: 480-182588-1

Date Collected: 03/26/21 12:15

Matrix: Water

Date Received: 03/27/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	574486	03/31/21 11:22	CRL	TAL BUF
Total/NA	Prep	3535			165275	03/29/21 08:27	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	165316	03/29/21 19:51	ND	TAL BUR

Client Sample ID: K-WELL 032621

Lab Sample ID: 480-182588-2

Date Collected: 03/26/21 10:00

Matrix: Water

Date Received: 03/27/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	574486	03/31/21 11:46	CRL	TAL BUF
Total/NA	Prep	3535			165275	03/29/21 08:27	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	165316	03/29/21 19:59	ND	TAL BUR

Client Sample ID: DUP 032621

Lab Sample ID: 480-182588-3

Date Collected: 03/26/21 00:00

Matrix: Water

Date Received: 03/27/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	574486	03/31/21 12:11	CRL	TAL BUF
Total/NA	Prep	3535			165275	03/29/21 08:27	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	165316	03/29/21 20:24	ND	TAL BUR

Client Sample ID: EQUIPMENT BLANK 032621

Lab Sample ID: 480-182588-4

Date Collected: 03/26/21 12:45

Matrix: Water

Date Received: 03/27/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			165528	04/05/21 13:48	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	165538	04/05/21 21:11	ND	TAL BUR

Client Sample ID: TRIP BLANK 032621

Lab Sample ID: 480-182588-5

Date Collected: 03/26/21 00:00

Matrix: Water

Date Received: 03/27/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	574486	03/31/21 12:35	CRL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-16-21
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-21
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-31-21

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-182588-1	RW-4 032621	Water	03/26/21 12:15	03/27/21 08:00	
480-182588-2	K-WELL 032621	Water	03/26/21 10:00	03/27/21 08:00	
480-182588-3	DUP 032621	Water	03/26/21 00:00	03/27/21 08:00	
480-182588-4	EQUIPMENT BLANK 032621	Water	03/26/21 12:45	03/27/21 08:00	
480-182588-5	TRIP BLANK 032621	Water	03/26/21 00:00	03/27/21 08:00	

Quantitation Limit Exceptions Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-182588-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260C	Hexachlorobutadiene	Water	Total/NA	ug/L	1.0	2.0
8260C	Xylenes, Total	Water	Total/NA	ug/L	1.0	2.0

[illegible]

#224

Chain of Custody Record

Client Information		Lab PM: Schove, John R		Carrier Tracking No(s):		COC No: 480-158485-32571.1	
Client Contact: Lindsay Mitchell		Phone: 716-390-0702		E-Mail: John.Schove@Eurofins.com		Page: Page 1 of 1	
Company: AECOM Technical Services Inc.		PWSID:		Analysis Requested		Job #:	
Address: 40 British American Boulevard		Due Date Requested:		Preservation Codes:		M - Hexane	
City: Latham		TAT Requested (days): Standard		A - HCL		N - None	
State, Zip: NY, 12110		Compliance Project: Δ Yes Δ No		B - NaOH		O - AsNaO2	
Phone: 518-951-2200(Tel)		PO #: 60542665		C - Zn Acetate		P - Na2O4S	
Email: lindsay.mitchell@aecom.com		WO #: 60542665		D - Nitric Acid		Q - Na2SO3	
Project Name: Philips - Saugerites, NY site		Project #: 48003119		E - NaHSO4		R - Na2SO3	
Site: New York		SSOW#:		F - MeOH		S - H2SO4	
				G - Anichlor		T - TSP Dodecahydrate	
				U - Acetone		V - MCAA	
				W - pH 4-5		Z - other (specify)	
				DA			
				F			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=leachate, A=air)	Field Filtered Sample (Yes or No)	Performance (MSD) (Yes or No)	PFC, IDA - PFS, Standard List (21 Analytes)	8260C - VOCs	Total Num	Special Instructions/Note:
RW-4 032621	3/26/21	1215	G	Water	N	Y	X	X	5	
K-Well 032621	3/26/21	1000	G	Water	N	Y	X	X	5	
DUP 032621	3/26/21	1000	G	Water	N	Y	X	X	5	
MS 032621	3/26/21	1000	G	Water	N	Y	X	X	5	
MSD 032621	3/26/21	1000	G	Water	N	Y	X	X	5	
Equipment Blank 032621	3/26/21	1245	G	Water	N	Y	X	X	2	
TRIP BLANK 032621	3/26/21	1245	G	Water	N	Y	X	X	2	

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☒ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B
☐ Deliberate Requested: I, II, III, IV, Other (specify)	☐ Radiological	☐ Return To Client	☒ Disposal By Lab
Empty Kit Relinquished by:		Special Instructions/QC Requirements:	
Relinquished by: Julian Koonik		Archive For _____ Months	
Date/Time: 3/26/21 1400		Date/Time: 3/26/21 1400	
Company: AECOM		Company: EET	
Relinquished by: Lindsay Mitchell		Date/Time: 3/26/21 1700	
Company: EET		Date/Time: 3/26/21 1030	
Relinquished by: Julian Koonik		Company: TABUR	
Company: EET		Date/Time: 3/26/21 1030	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	

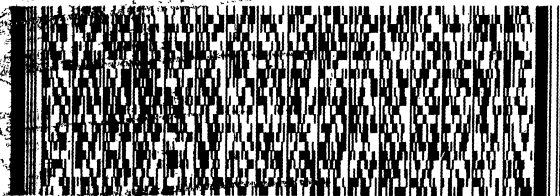
ORIGIN ID:DSVA (518) 430-810
TIM KNOLLMEYER
TESTAMERICA LAB, INC
25 KRAFT AVE
ALBANY, NY 12205
UNITED STATES US

SHIP DATE: 26MAR21
ACTWGT: 20.00 LB
0886598/CAFE3409
DIMS: 14x10 IN
PTLL THIRD PARTY

TO: **SAMPLE RECEIVING**
TESTAMERICA--BURLINGTON
30 COMMUNITY DRIVE, SUITE 11

BURLINGTON VT 05403

(602) 660-1990
REF: AECOM PFAS



FedEx
Express



SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 5013 1604 7223
0201

X0 BTVA

05403
VT-US BTV



Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 480-182588-1

SDG Number:

Login Number: 182588

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 480-182588-1

SDG Number:

Login Number: 182588

List Number: 2

Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington

List Creation: 03/27/21 04:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1479154
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	JM
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

June 2021 Groundwater Samples

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-186392-1

Client Project/Site: Philips - Saugerties, NY site

For:

AECOM Technical Services Inc.
40 British American Boulevard
Latham, New York 12110

Attn: Lindsay Mitchell



Authorized for release by:

7/2/2021 2:39:10 PM

Rebecca Jones, Project Management Assistant I

Rebecca.Jones@Eurofinset.com

Designee for

John Schove, Project Manager II

(716)504-9838

John.Schove@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Job ID: 480-186392-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-186392-1

Comments

No additional comments.

Receipt

The samples were received on 6/23/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: BW-5_062221 (480-186392-3), BW-5_062221 (480-186392-3[MS]), BW-5_062221 (480-186392-3[MSD]) and DUP (480-186392-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS

Method 537 (modified): The laboratory control sample (LCS) associated with preparation batch 200-168535 and analytical batch 200-168576 was above acceptance criteria for Perfluoroundecanoic acid (PFUnA). The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: RW-4_062221

Lab Sample ID: 480-186392-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.6		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	23		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.4		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.71	J	1.0	0.29	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.72	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	3.0		1.0	0.46	ug/L	1		8260C	Total/NA
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.6	J	4.5	0.99	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	3.9	J	4.5	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.56	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.52	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.37	J	1.8	0.21	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.7	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9		1.8	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.88	J	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	22		1.8	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	6.6		1.8	0.38	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.7		1.8	0.43	ng/L	1		537 (modified)	Total/NA

Client Sample ID: K-WELL_062221

Lab Sample ID: 480-186392-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.5		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.1		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.8		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	23		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	2.6		1.0	0.46	ug/L	1		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.71	J	1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	1.9	J	4.3	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	10		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.35	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.47	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.2	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.3	J	1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.50	J	1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.53	J	1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	46		1.7	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	6.0		1.7	0.37	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.9		1.7	0.41	ng/L	1		537 (modified)	Total/NA

Client Sample ID: BW-5_062221

Lab Sample ID: 480-186392-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.7		2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	1.6	J	2.0	0.76	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	5.7		2.0	1.6	ug/L	2		8260C	Total/NA
Tetrachloroethene	64	F1	2.0	0.72	ug/L	2		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: BW-5_062221 (Continued)

Lab Sample ID: 480-186392-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	4.1		2.0	0.92	ug/L	2		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	5.5		4.0	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	14		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.73	J	1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.4	J	1.6	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.1		1.6	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.8		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.2		1.6	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.1	J	1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (PFOSA)	2.6		1.6	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	120		1.6	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	19		1.6	0.34	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.1		1.6	0.38	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-186392-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	1.3	J	1.6	0.37	ng/L	1		537 (modified)	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-186392-5

No Detections.

Client Sample ID: DUP

Lab Sample ID: 480-186392-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.7		2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	1.6	J	2.0	0.76	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	5.3		2.0	1.6	ug/L	2		8260C	Total/NA
Tetrachloroethene	61		2.0	0.72	ug/L	2		8260C	Total/NA
Trichloroethene	4.0		2.0	0.92	ug/L	2		8260C	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	0.59	J	4.0	0.59	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	5.5		4.0	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	15		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.76	J	1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.4	J	1.6	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.9		1.6	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.8		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.3		1.6	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.97	J	1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (PFOSA)	2.5		1.6	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	120		1.6	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	19		1.6	0.34	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.4		1.6	0.38	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: RW-4_062221

Lab Sample ID: 480-186392-1

Date Collected: 06/22/21 10:35

Matrix: Water

Date Received: 06/23/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/29/21 15:29	1
1,1,1-Trichloroethane	3.6		1.0	0.82	ug/L			06/29/21 15:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/29/21 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	23		1.0	0.31	ug/L			06/29/21 15:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/29/21 15:29	1
1,1-Dichloroethane	1.4		1.0	0.38	ug/L			06/29/21 15:29	1
1,1-Dichloroethene	0.71 J		1.0	0.29	ug/L			06/29/21 15:29	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			06/29/21 15:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			06/29/21 15:29	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/29/21 15:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/29/21 15:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			06/29/21 15:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/29/21 15:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/29/21 15:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/29/21 15:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/29/21 15:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/29/21 15:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			06/29/21 15:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/29/21 15:29	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			06/29/21 15:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/29/21 15:29	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/29/21 15:29	1
Benzene	ND		1.0	0.41	ug/L			06/29/21 15:29	1
Bromobenzene	ND		1.0	0.80	ug/L			06/29/21 15:29	1
Bromochloromethane	ND		1.0	0.87	ug/L			06/29/21 15:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/29/21 15:29	1
Bromoform	ND		1.0	0.26	ug/L			06/29/21 15:29	1
Bromomethane	ND		1.0	0.69	ug/L			06/29/21 15:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/29/21 15:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/29/21 15:29	1
Chloroethane	ND		1.0	0.32	ug/L			06/29/21 15:29	1
Chloroform	ND		1.0	0.34	ug/L			06/29/21 15:29	1
Chloromethane	ND		1.0	0.35	ug/L			06/29/21 15:29	1
cis-1,2-Dichloroethene	1.1		1.0	0.81	ug/L			06/29/21 15:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/29/21 15:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/29/21 15:29	1
Dibromomethane	ND		1.0	0.41	ug/L			06/29/21 15:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/29/21 15:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/29/21 15:29	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			06/29/21 15:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/29/21 15:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/29/21 15:29	1
Naphthalene	ND		1.0	0.43	ug/L			06/29/21 15:29	1
n-Butylbenzene	ND		1.0	0.64	ug/L			06/29/21 15:29	1
N-Propylbenzene	ND		1.0	0.69	ug/L			06/29/21 15:29	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			06/29/21 15:29	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			06/29/21 15:29	1
p-Cymene	ND		1.0	0.31	ug/L			06/29/21 15:29	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			06/29/21 15:29	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: RW-4_062221

Lab Sample ID: 480-186392-1

Date Collected: 06/22/21 10:35

Matrix: Water

Date Received: 06/23/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			06/29/21 15:29	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			06/29/21 15:29	1
Tetrachloroethene	0.72	J	1.0	0.36	ug/L			06/29/21 15:29	1
Toluene	ND		1.0	0.51	ug/L			06/29/21 15:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/29/21 15:29	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/29/21 15:29	1
Trichloroethene	3.0		1.0	0.46	ug/L			06/29/21 15:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/29/21 15:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/29/21 15:29	1
Xylenes, Total	ND		1.0	0.66	ug/L			06/29/21 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		06/29/21 15:29	1
4-Bromofluorobenzene (Surr)	95		73 - 120		06/29/21 15:29	1
Toluene-d8 (Surr)	99		80 - 120		06/29/21 15:29	1
Dibromofluoromethane (Surr)	98		75 - 123		06/29/21 15:29	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8	0.35	ng/L		06/29/21 10:16	06/29/21 20:39	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.6	J	4.5	0.99	ng/L		06/29/21 10:16	06/29/21 20:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.67	ng/L		06/29/21 10:16	06/29/21 20:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.82	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.8	0.23	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorobutanoic acid (PFBA)	3.9	J	4.5	0.81	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorodecanesulfonic acid (PFDS)	0.56	J	1.8	0.28	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorodecanoic acid (PFDA)	0.52	J	1.8	0.28	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.35	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.37	J	1.8	0.21	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluoroheptanoic acid (PFHpA)	1.7	J	1.8	0.22	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.8	0.27	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorohexanoic acid (PFHxA)	1.9		1.8	0.41	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorononanoic acid (PFNA)	0.88	J	1.8	0.25	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.52	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorooctanesulfonic acid (PFOS)	22		1.8	0.26	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorooctanoic acid (PFOA)	6.6		1.8	0.38	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluoropentanoic acid (PFPeA)	2.7		1.8	0.43	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.57	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluorotridecanoic acid (PFTrIA)	ND		1.8	0.39	ng/L		06/29/21 10:16	06/29/21 20:39	1
Perfluoroundecanoic acid (PFUnA)	ND	+	1.8	0.31	ng/L		06/29/21 10:16	06/29/21 20:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	94		50 - 150	06/29/21 10:16	06/29/21 20:39	1
13C2 PFDoA	90		50 - 150	06/29/21 10:16	06/29/21 20:39	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: RW-4_062221

Lab Sample ID: 480-186392-1

Date Collected: 06/22/21 10:35

Matrix: Water

Date Received: 06/23/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	100		50 - 150	06/29/21 10:16	06/29/21 20:39	1
13C2 PFTeDA	75		50 - 150	06/29/21 10:16	06/29/21 20:39	1
13C2 PFUnA	92		50 - 150	06/29/21 10:16	06/29/21 20:39	1
13C3 PFBS	95		50 - 150	06/29/21 10:16	06/29/21 20:39	1
13C4 PFBA	101		25 - 150	06/29/21 10:16	06/29/21 20:39	1
13C4 PFHpA	98		50 - 150	06/29/21 10:16	06/29/21 20:39	1
13C4 PFOA	96		50 - 150	06/29/21 10:16	06/29/21 20:39	1
13C4 PFOS	83		50 - 150	06/29/21 10:16	06/29/21 20:39	1
13C5 PFNA	95		50 - 150	06/29/21 10:16	06/29/21 20:39	1
13C5 PFPeA	95		25 - 150	06/29/21 10:16	06/29/21 20:39	1
13C8 FOSA	73		25 - 150	06/29/21 10:16	06/29/21 20:39	1
18O2 PFHxS	90		50 - 150	06/29/21 10:16	06/29/21 20:39	1
d3-NMeFOSAA	76		50 - 150	06/29/21 10:16	06/29/21 20:39	1
d5-NEtFOSAA	82		50 - 150	06/29/21 10:16	06/29/21 20:39	1
M2-6:2 FTS	91		25 - 150	06/29/21 10:16	06/29/21 20:39	1
M2-8:2 FTS	94		25 - 150	06/29/21 10:16	06/29/21 20:39	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: K-WELL_062221

Lab Sample ID: 480-186392-2

Date Collected: 06/22/21 13:40

Matrix: Water

Date Received: 06/23/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/29/21 15:51	1
1,1,1-Trichloroethane	1.5		1.0	0.82	ug/L			06/29/21 15:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/29/21 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/29/21 15:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/29/21 15:51	1
1,1-Dichloroethane	1.1		1.0	0.38	ug/L			06/29/21 15:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/29/21 15:51	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			06/29/21 15:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			06/29/21 15:51	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/29/21 15:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/29/21 15:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			06/29/21 15:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/29/21 15:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/29/21 15:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/29/21 15:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/29/21 15:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/29/21 15:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			06/29/21 15:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/29/21 15:51	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			06/29/21 15:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/29/21 15:51	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/29/21 15:51	1
Benzene	ND		1.0	0.41	ug/L			06/29/21 15:51	1
Bromobenzene	ND		1.0	0.80	ug/L			06/29/21 15:51	1
Bromochloromethane	ND		1.0	0.87	ug/L			06/29/21 15:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/29/21 15:51	1
Bromoform	ND		1.0	0.26	ug/L			06/29/21 15:51	1
Bromomethane	ND		1.0	0.69	ug/L			06/29/21 15:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/29/21 15:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/29/21 15:51	1
Chloroethane	ND		1.0	0.32	ug/L			06/29/21 15:51	1
Chloroform	ND		1.0	0.34	ug/L			06/29/21 15:51	1
Chloromethane	ND		1.0	0.35	ug/L			06/29/21 15:51	1
cis-1,2-Dichloroethene	2.8		1.0	0.81	ug/L			06/29/21 15:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/29/21 15:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/29/21 15:51	1
Dibromomethane	ND		1.0	0.41	ug/L			06/29/21 15:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/29/21 15:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/29/21 15:51	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			06/29/21 15:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/29/21 15:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/29/21 15:51	1
Naphthalene	ND		1.0	0.43	ug/L			06/29/21 15:51	1
n-Butylbenzene	ND		1.0	0.64	ug/L			06/29/21 15:51	1
N-Propylbenzene	ND		1.0	0.69	ug/L			06/29/21 15:51	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			06/29/21 15:51	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			06/29/21 15:51	1
p-Cymene	ND		1.0	0.31	ug/L			06/29/21 15:51	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			06/29/21 15:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: K-WELL_062221

Lab Sample ID: 480-186392-2

Date Collected: 06/22/21 13:40

Matrix: Water

Date Received: 06/23/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			06/29/21 15:51	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			06/29/21 15:51	1
Tetrachloroethene	23		1.0	0.36	ug/L			06/29/21 15:51	1
Toluene	ND		1.0	0.51	ug/L			06/29/21 15:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/29/21 15:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/29/21 15:51	1
Trichloroethene	2.6		1.0	0.46	ug/L			06/29/21 15:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/29/21 15:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/29/21 15:51	1
Xylenes, Total	ND		1.0	0.66	ug/L			06/29/21 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		06/29/21 15:51	1
4-Bromofluorobenzene (Surr)	95		73 - 120		06/29/21 15:51	1
Toluene-d8 (Surr)	99		80 - 120		06/29/21 15:51	1
Dibromofluoromethane (Surr)	99		75 - 123		06/29/21 15:51	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.34	ng/L		06/29/21 10:16	06/29/21 20:47	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.95	ng/L		06/29/21 10:16	06/29/21 20:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.64	ng/L		06/29/21 10:16	06/29/21 20:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.78	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorobutanesulfonic acid (PFBS)	0.71	J	1.7	0.22	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorobutanoic acid (PFBA)	1.9	J	4.3	0.77	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorodecanesulfonic acid (PFDS)	10		1.7	0.26	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorodecanoic acid (PFDA)	0.35	J	1.7	0.26	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.47	J	1.7	0.20	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluoroheptanoic acid (PFHpA)	1.2	J	1.7	0.21	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.7	0.26	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorohexanoic acid (PFHxA)	1.3	J	1.7	0.39	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorononanoic acid (PFNA)	0.50	J	1.7	0.24	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorooctanesulfonamide (PFOSA)	0.53	J	1.7	0.50	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorooctanesulfonic acid (PFOS)	46		1.7	0.25	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorooctanoic acid (PFOA)	6.0		1.7	0.37	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluoropentanoic acid (PFPeA)	1.9		1.7	0.41	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.54	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		06/29/21 10:16	06/29/21 20:47	1
Perfluoroundecanoic acid (PFUnA)	ND	+	1.7	0.30	ng/L		06/29/21 10:16	06/29/21 20:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	87		50 - 150	06/29/21 10:16	06/29/21 20:47	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: K-WELL_062221

Lab Sample ID: 480-186392-2

Date Collected: 06/22/21 13:40

Matrix: Water

Date Received: 06/23/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDoA	72		50 - 150	06/29/21 10:16	06/29/21 20:47	1
13C2 PFHxA	102		50 - 150	06/29/21 10:16	06/29/21 20:47	1
13C2 PFTeDA	72		50 - 150	06/29/21 10:16	06/29/21 20:47	1
13C2 PFUnA	74		50 - 150	06/29/21 10:16	06/29/21 20:47	1
13C3 PFBS	89		50 - 150	06/29/21 10:16	06/29/21 20:47	1
13C4 PFBA	94		25 - 150	06/29/21 10:16	06/29/21 20:47	1
13C4 PFHpA	96		50 - 150	06/29/21 10:16	06/29/21 20:47	1
13C4 PFOA	96		50 - 150	06/29/21 10:16	06/29/21 20:47	1
13C4 PFOS	82		50 - 150	06/29/21 10:16	06/29/21 20:47	1
13C5 PFNA	90		50 - 150	06/29/21 10:16	06/29/21 20:47	1
13C5 PFPeA	100		25 - 150	06/29/21 10:16	06/29/21 20:47	1
13C8 FOSA	75		25 - 150	06/29/21 10:16	06/29/21 20:47	1
18O2 PFHxS	90		50 - 150	06/29/21 10:16	06/29/21 20:47	1
d3-NMeFOSAA	75		50 - 150	06/29/21 10:16	06/29/21 20:47	1
d5-NEtFOSAA	71		50 - 150	06/29/21 10:16	06/29/21 20:47	1
M2-6:2 FTS	90		25 - 150	06/29/21 10:16	06/29/21 20:47	1
M2-8:2 FTS	84		25 - 150	06/29/21 10:16	06/29/21 20:47	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: BW-5_062221

Lab Sample ID: 480-186392-3

Date Collected: 06/22/21 12:05

Matrix: Water

Date Received: 06/23/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.70	ug/L			06/28/21 17:46	2
1,1,1-Trichloroethane	2.7		2.0	1.6	ug/L			06/28/21 17:46	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/28/21 17:46	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/28/21 17:46	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/28/21 17:46	2
1,1-Dichloroethane	1.6 J		2.0	0.76	ug/L			06/28/21 17:46	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/28/21 17:46	2
1,1-Dichloropropene	ND		2.0	1.4	ug/L			06/28/21 17:46	2
1,2,3-Trichlorobenzene	ND		2.0	0.82	ug/L			06/28/21 17:46	2
1,2,3-Trichloropropane	ND		2.0	1.8	ug/L			06/28/21 17:46	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/28/21 17:46	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			06/28/21 17:46	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/28/21 17:46	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/28/21 17:46	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/28/21 17:46	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/28/21 17:46	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/28/21 17:46	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			06/28/21 17:46	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/28/21 17:46	2
1,3-Dichloropropane	ND		2.0	1.5	ug/L			06/28/21 17:46	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/28/21 17:46	2
2,2-Dichloropropane	ND		2.0	0.80	ug/L			06/28/21 17:46	2
Benzene	ND		2.0	0.82	ug/L			06/28/21 17:46	2
Bromobenzene	ND		2.0	1.6	ug/L			06/28/21 17:46	2
Bromochloromethane	ND		2.0	1.7	ug/L			06/28/21 17:46	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/28/21 17:46	2
Bromoform	ND		2.0	0.52	ug/L			06/28/21 17:46	2
Bromomethane	ND		2.0	1.4	ug/L			06/28/21 17:46	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/28/21 17:46	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/28/21 17:46	2
Chloroethane	ND		2.0	0.64	ug/L			06/28/21 17:46	2
Chloroform	ND		2.0	0.68	ug/L			06/28/21 17:46	2
Chloromethane	ND		2.0	0.70	ug/L			06/28/21 17:46	2
cis-1,2-Dichloroethene	5.7		2.0	1.6	ug/L			06/28/21 17:46	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/28/21 17:46	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/28/21 17:46	2
Dibromomethane	ND		2.0	0.82	ug/L			06/28/21 17:46	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/28/21 17:46	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/28/21 17:46	2
Hexachlorobutadiene	ND		2.0	0.56	ug/L			06/28/21 17:46	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/28/21 17:46	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/28/21 17:46	2
Naphthalene	ND		2.0	0.86	ug/L			06/28/21 17:46	2
n-Butylbenzene	ND		2.0	1.3	ug/L			06/28/21 17:46	2
N-Propylbenzene	ND		2.0	1.4	ug/L			06/28/21 17:46	2
o-Chlorotoluene	ND		2.0	1.7	ug/L			06/28/21 17:46	2
p-Chlorotoluene	ND		2.0	1.7	ug/L			06/28/21 17:46	2
p-Cymene	ND		2.0	0.62	ug/L			06/28/21 17:46	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			06/28/21 17:46	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: BW-5_062221

Lab Sample ID: 480-186392-3

Date Collected: 06/22/21 12:05

Matrix: Water

Date Received: 06/23/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		2.0	1.5	ug/L			06/28/21 17:46	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			06/28/21 17:46	2
Tetrachloroethene	64	F1	2.0	0.72	ug/L			06/28/21 17:46	2
Toluene	ND		2.0	1.0	ug/L			06/28/21 17:46	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/28/21 17:46	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/28/21 17:46	2
Trichloroethene	4.1		2.0	0.92	ug/L			06/28/21 17:46	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/28/21 17:46	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/28/21 17:46	2
Xylenes, Total	ND		2.0	1.3	ug/L			06/28/21 17:46	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		06/28/21 17:46	2
4-Bromofluorobenzene (Surr)	97		73 - 120		06/28/21 17:46	2
Toluene-d8 (Surr)	100		80 - 120		06/28/21 17:46	2
Dibromofluoromethane (Surr)	99		75 - 123		06/28/21 17:46	2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.31	ng/L		06/29/21 10:16	06/29/21 20:55	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.0	0.87	ng/L		06/29/21 10:16	06/29/21 20:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.0	0.59	ng/L		06/29/21 10:16	06/29/21 20:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.0	0.72	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.6	0.20	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorobutanoic acid (PFBA)	5.5		4.0	0.71	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorodecanesulfonic acid (PFDS)	14		1.6	0.24	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorodecanoic acid (PFDA)	0.73	J	1.6	0.24	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.31	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.4	J	1.6	0.19	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluoroheptanoic acid (PFHpA)	4.1		1.6	0.19	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorohexanesulfonic acid (PFHxS)	3.8		1.6	0.24	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorohexanoic acid (PFHxA)	4.2		1.6	0.36	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorononanoic acid (PFNA)	1.1	J	1.6	0.22	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorooctanesulfonamide (PFOSA)	2.6		1.6	0.46	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorooctanesulfonic acid (PFOS)	120		1.6	0.23	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorooctanoic acid (PFOA)	19		1.6	0.34	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluoropentanoic acid (PFPeA)	5.1		1.6	0.38	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.50	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.34	ng/L		06/29/21 10:16	06/29/21 20:55	1
Perfluoroundecanoic acid (PFUnA)	ND	+	1.6	0.27	ng/L		06/29/21 10:16	06/29/21 20:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	84		50 - 150	06/29/21 10:16	06/29/21 20:55	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: BW-5_062221

Lab Sample ID: 480-186392-3

Date Collected: 06/22/21 12:05

Matrix: Water

Date Received: 06/23/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	70		50 - 150	06/29/21 10:16	06/29/21 20:55	1
13C2 PFHxA	101		50 - 150	06/29/21 10:16	06/29/21 20:55	1
13C2 PFTeDA	67		50 - 150	06/29/21 10:16	06/29/21 20:55	1
13C2 PFUnA	71		50 - 150	06/29/21 10:16	06/29/21 20:55	1
13C3 PFBS	89		50 - 150	06/29/21 10:16	06/29/21 20:55	1
13C4 PFBA	93		25 - 150	06/29/21 10:16	06/29/21 20:55	1
13C4 PFHpA	94		50 - 150	06/29/21 10:16	06/29/21 20:55	1
13C4 PFOA	98		50 - 150	06/29/21 10:16	06/29/21 20:55	1
13C4 PFOS	83		50 - 150	06/29/21 10:16	06/29/21 20:55	1
13C5 PFNA	94		50 - 150	06/29/21 10:16	06/29/21 20:55	1
13C5 PFPeA	97		25 - 150	06/29/21 10:16	06/29/21 20:55	1
13C8 FOSA	70		25 - 150	06/29/21 10:16	06/29/21 20:55	1
18O2 PFHxS	88		50 - 150	06/29/21 10:16	06/29/21 20:55	1
d3-NMeFOSAA	59		50 - 150	06/29/21 10:16	06/29/21 20:55	1
d5-NEtFOSAA	64		50 - 150	06/29/21 10:16	06/29/21 20:55	1
M2-6:2 FTS	93		25 - 150	06/29/21 10:16	06/29/21 20:55	1
M2-8:2 FTS	82		25 - 150	06/29/21 10:16	06/29/21 20:55	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-186392-4

Date Collected: 06/22/21 12:45

Matrix: Water

Date Received: 06/23/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.32	ng/L		06/29/21 10:16	06/29/21 21:20	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.89	ng/L		06/29/21 10:16	06/29/21 21:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.60	ng/L		06/29/21 10:16	06/29/21 21:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.73	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.20	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorobutanoic acid (PFBA)	ND		4.1	0.72	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.25	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.25	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.31	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.19	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.19	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.24	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorohexanoic acid (PFHxA)	1.3	J	1.6	0.37	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.23	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.47	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.24	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorooctanoic acid (PFOA)	ND		1.6	0.34	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.38	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.51	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluorotridecanoic acid (PFTrIA)	ND		1.6	0.35	ng/L		06/29/21 10:16	06/29/21 21:20	1
Perfluoroundecanoic acid (PFUnA)	ND	+	1.6	0.28	ng/L		06/29/21 10:16	06/29/21 21:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	105		50 - 150	06/29/21 10:16	06/29/21 21:20	1
13C2 PFDoA	87		50 - 150	06/29/21 10:16	06/29/21 21:20	1
13C2 PFHxA	107		50 - 150	06/29/21 10:16	06/29/21 21:20	1
13C2 PFTeDA	76		50 - 150	06/29/21 10:16	06/29/21 21:20	1
13C2 PFUnA	94		50 - 150	06/29/21 10:16	06/29/21 21:20	1
13C3 PFBS	93		50 - 150	06/29/21 10:16	06/29/21 21:20	1
13C4 PFBA	105		25 - 150	06/29/21 10:16	06/29/21 21:20	1
13C4 PFHpA	100		50 - 150	06/29/21 10:16	06/29/21 21:20	1
13C4 PFOA	98		50 - 150	06/29/21 10:16	06/29/21 21:20	1
13C4 PFOS	94		50 - 150	06/29/21 10:16	06/29/21 21:20	1
13C5 PFNA	105		50 - 150	06/29/21 10:16	06/29/21 21:20	1
13C5 PFPeA	100		25 - 150	06/29/21 10:16	06/29/21 21:20	1
13C8 FOSA	67		25 - 150	06/29/21 10:16	06/29/21 21:20	1
18O2 PFHxS	92		50 - 150	06/29/21 10:16	06/29/21 21:20	1
d3-NMeFOSAA	87		50 - 150	06/29/21 10:16	06/29/21 21:20	1
d5-NEtFOSAA	83		50 - 150	06/29/21 10:16	06/29/21 21:20	1
M2-6:2 FTS	96		25 - 150	06/29/21 10:16	06/29/21 21:20	1
M2-8:2 FTS	102		25 - 150	06/29/21 10:16	06/29/21 21:20	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-186392-5

Date Collected: 06/22/21 00:00

Matrix: Water

Date Received: 06/23/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/28/21 18:08	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/28/21 18:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/28/21 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/28/21 18:08	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/28/21 18:08	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/28/21 18:08	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/28/21 18:08	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			06/28/21 18:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			06/28/21 18:08	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/28/21 18:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/28/21 18:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			06/28/21 18:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/28/21 18:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/28/21 18:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/28/21 18:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/28/21 18:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/28/21 18:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			06/28/21 18:08	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/28/21 18:08	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			06/28/21 18:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/28/21 18:08	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/28/21 18:08	1
Benzene	ND		1.0	0.41	ug/L			06/28/21 18:08	1
Bromobenzene	ND		1.0	0.80	ug/L			06/28/21 18:08	1
Bromochloromethane	ND		1.0	0.87	ug/L			06/28/21 18:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/28/21 18:08	1
Bromoform	ND		1.0	0.26	ug/L			06/28/21 18:08	1
Bromomethane	ND		1.0	0.69	ug/L			06/28/21 18:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/28/21 18:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/28/21 18:08	1
Chloroethane	ND		1.0	0.32	ug/L			06/28/21 18:08	1
Chloroform	ND		1.0	0.34	ug/L			06/28/21 18:08	1
Chloromethane	ND		1.0	0.35	ug/L			06/28/21 18:08	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/28/21 18:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/28/21 18:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/28/21 18:08	1
Dibromomethane	ND		1.0	0.41	ug/L			06/28/21 18:08	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/28/21 18:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/28/21 18:08	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			06/28/21 18:08	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/28/21 18:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/28/21 18:08	1
Naphthalene	ND		1.0	0.43	ug/L			06/28/21 18:08	1
n-Butylbenzene	ND		1.0	0.64	ug/L			06/28/21 18:08	1
N-Propylbenzene	ND		1.0	0.69	ug/L			06/28/21 18:08	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			06/28/21 18:08	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			06/28/21 18:08	1
p-Cymene	ND		1.0	0.31	ug/L			06/28/21 18:08	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			06/28/21 18:08	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-186392-5

Date Collected: 06/22/21 00:00

Matrix: Water

Date Received: 06/23/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			06/28/21 18:08	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			06/28/21 18:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/28/21 18:08	1
Toluene	ND		1.0	0.51	ug/L			06/28/21 18:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/28/21 18:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/28/21 18:08	1
Trichloroethene	ND		1.0	0.46	ug/L			06/28/21 18:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/28/21 18:08	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/28/21 18:08	1
Xylenes, Total	ND		1.0	0.66	ug/L			06/28/21 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		06/28/21 18:08	1
4-Bromofluorobenzene (Surr)	96		73 - 120		06/28/21 18:08	1
Toluene-d8 (Surr)	99		80 - 120		06/28/21 18:08	1
Dibromofluoromethane (Surr)	99		75 - 123		06/28/21 18:08	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: DUP

Lab Sample ID: 480-186392-6

Date Collected: 06/22/21 00:00

Matrix: Water

Date Received: 06/23/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.70	ug/L			06/28/21 18:31	2
1,1,1-Trichloroethane	2.7		2.0	1.6	ug/L			06/28/21 18:31	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/28/21 18:31	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/28/21 18:31	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/28/21 18:31	2
1,1-Dichloroethane	1.6 J		2.0	0.76	ug/L			06/28/21 18:31	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/28/21 18:31	2
1,1-Dichloropropene	ND		2.0	1.4	ug/L			06/28/21 18:31	2
1,2,3-Trichlorobenzene	ND		2.0	0.82	ug/L			06/28/21 18:31	2
1,2,3-Trichloropropane	ND		2.0	1.8	ug/L			06/28/21 18:31	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/28/21 18:31	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			06/28/21 18:31	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/28/21 18:31	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/28/21 18:31	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/28/21 18:31	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/28/21 18:31	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/28/21 18:31	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			06/28/21 18:31	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/28/21 18:31	2
1,3-Dichloropropane	ND		2.0	1.5	ug/L			06/28/21 18:31	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/28/21 18:31	2
2,2-Dichloropropane	ND		2.0	0.80	ug/L			06/28/21 18:31	2
Benzene	ND		2.0	0.82	ug/L			06/28/21 18:31	2
Bromobenzene	ND		2.0	1.6	ug/L			06/28/21 18:31	2
Bromochloromethane	ND		2.0	1.7	ug/L			06/28/21 18:31	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/28/21 18:31	2
Bromoform	ND		2.0	0.52	ug/L			06/28/21 18:31	2
Bromomethane	ND		2.0	1.4	ug/L			06/28/21 18:31	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/28/21 18:31	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/28/21 18:31	2
Chloroethane	ND		2.0	0.64	ug/L			06/28/21 18:31	2
Chloroform	ND		2.0	0.68	ug/L			06/28/21 18:31	2
Chloromethane	ND		2.0	0.70	ug/L			06/28/21 18:31	2
cis-1,2-Dichloroethene	5.3		2.0	1.6	ug/L			06/28/21 18:31	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/28/21 18:31	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/28/21 18:31	2
Dibromomethane	ND		2.0	0.82	ug/L			06/28/21 18:31	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/28/21 18:31	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/28/21 18:31	2
Hexachlorobutadiene	ND		2.0	0.56	ug/L			06/28/21 18:31	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/28/21 18:31	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/28/21 18:31	2
Naphthalene	ND		2.0	0.86	ug/L			06/28/21 18:31	2
n-Butylbenzene	ND		2.0	1.3	ug/L			06/28/21 18:31	2
N-Propylbenzene	ND		2.0	1.4	ug/L			06/28/21 18:31	2
o-Chlorotoluene	ND		2.0	1.7	ug/L			06/28/21 18:31	2
p-Chlorotoluene	ND		2.0	1.7	ug/L			06/28/21 18:31	2
p-Cymene	ND		2.0	0.62	ug/L			06/28/21 18:31	2
sec-Butylbenzene	ND		2.0	1.5	ug/L			06/28/21 18:31	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: DUP

Lab Sample ID: 480-186392-6

Date Collected: 06/22/21 00:00

Matrix: Water

Date Received: 06/23/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		2.0	1.5	ug/L			06/28/21 18:31	2
tert-Butylbenzene	ND		2.0	1.6	ug/L			06/28/21 18:31	2
Tetrachloroethene	61		2.0	0.72	ug/L			06/28/21 18:31	2
Toluene	ND		2.0	1.0	ug/L			06/28/21 18:31	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/28/21 18:31	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/28/21 18:31	2
Trichloroethene	4.0		2.0	0.92	ug/L			06/28/21 18:31	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/28/21 18:31	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/28/21 18:31	2
Xylenes, Total	ND		2.0	1.3	ug/L			06/28/21 18:31	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		06/28/21 18:31	2
4-Bromofluorobenzene (Surr)	97		73 - 120		06/28/21 18:31	2
Toluene-d8 (Surr)	100		80 - 120		06/28/21 18:31	2
Dibromofluoromethane (Surr)	98		75 - 123		06/28/21 18:31	2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.31	ng/L		06/29/21 10:16	06/29/21 21:29	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.0	0.87	ng/L		06/29/21 10:16	06/29/21 21:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.59	J	4.0	0.59	ng/L		06/29/21 10:16	06/29/21 21:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.0	0.72	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.6	0.20	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorobutanoic acid (PFBA)	5.5		4.0	0.71	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorodecanesulfonic acid (PFDS)	15		1.6	0.24	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorodecanoic acid (PFDA)	0.76	J	1.6	0.24	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.30	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.4	J	1.6	0.19	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluoroheptanoic acid (PFHpA)	3.9		1.6	0.19	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorohexanesulfonic acid (PFHxS)	3.8		1.6	0.24	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorohexanoic acid (PFHxA)	4.3		1.6	0.36	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorononanoic acid (PFNA)	0.97	J	1.6	0.22	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorooctanesulfonamide (PFOSA)	2.5		1.6	0.46	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorooctanesulfonic acid (PFOS)	120		1.6	0.23	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorooctanoic acid (PFOA)	19		1.6	0.34	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluoropentanoic acid (PFPeA)	5.4		1.6	0.38	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.50	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.34	ng/L		06/29/21 10:16	06/29/21 21:29	1
Perfluoroundecanoic acid (PFUnA)	ND	+	1.6	0.27	ng/L		06/29/21 10:16	06/29/21 21:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	96		50 - 150	06/29/21 10:16	06/29/21 21:29	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: DUP

Lab Sample ID: 480-186392-6

Date Collected: 06/22/21 00:00

Matrix: Water

Date Received: 06/23/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	82		50 - 150	06/29/21 10:16	06/29/21 21:29	1
13C2 PFHxA	105		50 - 150	06/29/21 10:16	06/29/21 21:29	1
13C2 PFTeDA	74		50 - 150	06/29/21 10:16	06/29/21 21:29	1
13C2 PFUnA	80		50 - 150	06/29/21 10:16	06/29/21 21:29	1
13C3 PFBS	99		50 - 150	06/29/21 10:16	06/29/21 21:29	1
13C4 PFBA	101		25 - 150	06/29/21 10:16	06/29/21 21:29	1
13C4 PFHpA	105		50 - 150	06/29/21 10:16	06/29/21 21:29	1
13C4 PFOA	107		50 - 150	06/29/21 10:16	06/29/21 21:29	1
13C4 PFOS	91		50 - 150	06/29/21 10:16	06/29/21 21:29	1
13C5 PFNA	105		50 - 150	06/29/21 10:16	06/29/21 21:29	1
13C5 PFPeA	103		25 - 150	06/29/21 10:16	06/29/21 21:29	1
13C8 FOSA	84		25 - 150	06/29/21 10:16	06/29/21 21:29	1
18O2 PFHxS	96		50 - 150	06/29/21 10:16	06/29/21 21:29	1
d3-NMeFOSAA	80		50 - 150	06/29/21 10:16	06/29/21 21:29	1
d5-NEtFOSAA	79		50 - 150	06/29/21 10:16	06/29/21 21:29	1
M2-6:2 FTS	100		25 - 150	06/29/21 10:16	06/29/21 21:29	1
M2-8:2 FTS	100		25 - 150	06/29/21 10:16	06/29/21 21:29	1

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	TOL (80-120)	DBFM (75-123)
480-186392-1	RW-4_062221	97	95	99	98
480-186392-2	K-WELL_062221	97	95	99	99
480-186392-3	BW-5_062221	97	97	100	99
480-186392-3 MS	BW-5_062221	96	97	102	99
480-186392-3 MSD	BW-5_062221	95	99	101	99
480-186392-5	TRIP BLANK	96	96	99	99
480-186392-6	DUP	95	97	100	98
LCS 480-587187/45	Lab Control Sample	95	100	100	98
LCS 480-587342/5	Lab Control Sample	95	98	101	98
MB 480-587187/7	Method Blank	94	97	99	97
MB 480-587342/7	Method Blank	95	94	99	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDA (50-150)	PFDoA (50-150)	PFHxA (50-150)	PFTDA (50-150)	PFUnA (50-150)	C3PFBS (50-150)	PFBA (25-150)	C4PFHA (50-150)
480-186392-1	RW-4_062221	94	90	100	75	92	95	101	98
480-186392-2	K-WELL_062221	87	72	102	72	74	89	94	96
480-186392-3	BW-5_062221	84	70	101	67	71	89	93	94
480-186392-3 MS	BW-5_062221	85	67	98	68	74	89	92	95
480-186392-3 MSD	BW-5_062221	96	93	104	77	87	92	99	101
480-186392-4	EQUIPMENT BLANK	105	87	107	76	94	93	105	100
480-186392-6	DUP	96	82	105	74	80	99	101	105
LCS 200-168535/2-A	Lab Control Sample	104	71	110	63	86	98	108	102
MB 200-168535/1-A	Method Blank	97	69	102	57	90	92	103	98

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFPeA (25-150)	PFOSA (25-150)	PFHxS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)
480-186392-1	RW-4_062221	96	83	95	95	73	90	76	82
480-186392-2	K-WELL_062221	96	82	90	100	75	90	75	71
480-186392-3	BW-5_062221	98	83	94	97	70	88	59	64
480-186392-3 MS	BW-5_062221	96	83	90	96	73	88	69	63
480-186392-3 MSD	BW-5_062221	102	91	100	103	84	93	79	73
480-186392-4	EQUIPMENT BLANK	98	94	105	100	67	92	87	83
480-186392-6	DUP	107	91	105	103	84	96	80	79
LCS 200-168535/2-A	Lab Control Sample	103	97	101	107	67	94	84	80
MB 200-168535/1-A	Method Blank	101	95	99	105	57	91	84	78

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-186392-1	RW-4_062221	91	94
480-186392-2	K-WELL_062221	90	84
480-186392-3	BW-5_062221	93	82
480-186392-3 MS	BW-5_062221	87	88
480-186392-3 MSD	BW-5_062221	93	104
480-186392-4	EQUIPMENT BLANK	96	102
480-186392-6	DUP	100	100
LCS 200-168535/2-A	Lab Control Sample	100	108
MB 200-168535/1-A	Method Blank	92	101

Surrogate Legend

PFDA = 13C2 PFDA
PFDoA = 13C2 PFDoA
PFHxA = 13C2 PFHxA
PFTDA = 13C2 PFTeDA
PFUnA = 13C2 PFUnA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFPeA = 13C5 PFPeA
PFOSA = 13C8 FOSA
PFHxS = 18O2 PFHxS

Eurofins TestAmerica, Buffalo

Isotope Dilution Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Job ID: 480-186392-1

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-587187/7

Matrix: Water

Analysis Batch: 587187

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/28/21 14:28	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/28/21 14:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/28/21 14:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/28/21 14:28	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/28/21 14:28	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/28/21 14:28	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/28/21 14:28	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			06/28/21 14:28	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			06/28/21 14:28	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/28/21 14:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/28/21 14:28	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			06/28/21 14:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/28/21 14:28	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/28/21 14:28	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/28/21 14:28	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/28/21 14:28	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/28/21 14:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			06/28/21 14:28	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/28/21 14:28	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			06/28/21 14:28	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/28/21 14:28	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/28/21 14:28	1
Benzene	ND		1.0	0.41	ug/L			06/28/21 14:28	1
Bromobenzene	ND		1.0	0.80	ug/L			06/28/21 14:28	1
Bromochloromethane	ND		1.0	0.87	ug/L			06/28/21 14:28	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/28/21 14:28	1
Bromoform	ND		1.0	0.26	ug/L			06/28/21 14:28	1
Bromomethane	ND		1.0	0.69	ug/L			06/28/21 14:28	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/28/21 14:28	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/28/21 14:28	1
Chloroethane	ND		1.0	0.32	ug/L			06/28/21 14:28	1
Chloroform	ND		1.0	0.34	ug/L			06/28/21 14:28	1
Chloromethane	ND		1.0	0.35	ug/L			06/28/21 14:28	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/28/21 14:28	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/28/21 14:28	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/28/21 14:28	1
Dibromomethane	ND		1.0	0.41	ug/L			06/28/21 14:28	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/28/21 14:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/28/21 14:28	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			06/28/21 14:28	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/28/21 14:28	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/28/21 14:28	1
Naphthalene	ND		1.0	0.43	ug/L			06/28/21 14:28	1
n-Butylbenzene	ND		1.0	0.64	ug/L			06/28/21 14:28	1
N-Propylbenzene	ND		1.0	0.69	ug/L			06/28/21 14:28	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			06/28/21 14:28	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			06/28/21 14:28	1
p-Cymene	ND		1.0	0.31	ug/L			06/28/21 14:28	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-587187/7

Matrix: Water

Analysis Batch: 587187

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.75	ug/L			06/28/21 14:28	1
Styrene	ND		1.0	0.73	ug/L			06/28/21 14:28	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			06/28/21 14:28	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/28/21 14:28	1
Toluene	ND		1.0	0.51	ug/L			06/28/21 14:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/28/21 14:28	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/28/21 14:28	1
Trichloroethene	ND		1.0	0.46	ug/L			06/28/21 14:28	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/28/21 14:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/28/21 14:28	1
Xylenes, Total	ND		1.0	0.66	ug/L			06/28/21 14:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		06/28/21 14:28	1
4-Bromofluorobenzene (Surr)	97		73 - 120		06/28/21 14:28	1
Toluene-d8 (Surr)	99		80 - 120		06/28/21 14:28	1
Dibromofluoromethane (Surr)	97		75 - 123		06/28/21 14:28	1

Lab Sample ID: LCS 480-587187/45

Matrix: Water

Analysis Batch: 587187

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.3		ug/L		97	80 - 120
1,1,1-Trichloroethane	25.0	27.2		ug/L		109	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.7		ug/L		95	61 - 148
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	76 - 122
1,1-Dichloroethane	25.0	25.0		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	25.6		ug/L		103	66 - 127
1,1-Dichloropropene	25.0	24.8		ug/L		99	72 - 122
1,2,3-Trichlorobenzene	25.0	23.4		ug/L		94	75 - 123
1,2,3-Trichloropropane	25.0	23.6		ug/L		95	68 - 122
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		96	79 - 122
1,2,4-Trimethylbenzene	25.0	24.3		ug/L		97	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	22.6		ug/L		91	56 - 134
1,2-Dibromoethane	25.0	24.6		ug/L		98	77 - 120
1,2-Dichlorobenzene	25.0	24.4		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	21.8		ug/L		87	75 - 120
1,2-Dichloropropane	25.0	25.7		ug/L		103	76 - 120
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	77 - 121
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	77 - 120
1,3-Dichloropropane	25.0	24.3		ug/L		97	75 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 120
2,2-Dichloropropane	25.0	26.5		ug/L		106	63 - 136
Benzene	25.0	25.0		ug/L		100	71 - 124
Bromobenzene	25.0	24.1		ug/L		96	78 - 120
Bromochloromethane	25.0	25.2		ug/L		101	72 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-587187/45

Matrix: Water

Analysis Batch: 587187

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	25.0	24.1		ug/L		96	80 - 122
Bromoform	25.0	24.3		ug/L		97	61 - 132
Bromomethane	25.0	22.6		ug/L		90	55 - 144
Carbon tetrachloride	25.0	23.4		ug/L		93	72 - 134
Chlorobenzene	25.0	24.0		ug/L		96	80 - 120
Chloroethane	25.0	25.8		ug/L		103	69 - 136
Chloroform	25.0	23.8		ug/L		95	73 - 127
Chloromethane	25.0	21.8		ug/L		87	68 - 124
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 - 124
Dibromochloromethane	25.0	24.1		ug/L		96	75 - 125
Dibromomethane	25.0	24.4		ug/L		98	76 - 127
Dichlorodifluoromethane	25.0	20.9		ug/L		84	59 - 135
Ethylbenzene	25.0	24.4		ug/L		98	77 - 123
Hexachlorobutadiene	25.0	22.9		ug/L		92	68 - 131
Isopropylbenzene	25.0	24.3		ug/L		97	77 - 122
Methylene Chloride	25.0	26.3		ug/L		105	75 - 124
Naphthalene	25.0	23.9		ug/L		96	66 - 125
n-Butylbenzene	25.0	24.3		ug/L		97	71 - 128
N-Propylbenzene	25.0	24.6		ug/L		99	75 - 127
o-Chlorotoluene	25.0	24.2		ug/L		97	76 - 121
p-Chlorotoluene	25.0	24.7		ug/L		99	77 - 121
p-Cymene	25.0	24.6		ug/L		98	73 - 120
sec-Butylbenzene	25.0	24.4		ug/L		98	74 - 127
Styrene	25.0	24.5		ug/L		98	80 - 120
tert-Butylbenzene	25.0	24.5		ug/L		98	75 - 123
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	27.4		ug/L		110	73 - 127
trans-1,3-Dichloropropene	25.0	23.3		ug/L		93	80 - 120
Trichloroethene	25.0	24.5		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	23.5		ug/L		94	62 - 150
Vinyl chloride	25.0	23.7		ug/L		95	65 - 133
Xylenes, Total	50.0	48.9		ug/L		98	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Lab Sample ID: 480-186392-3 MS

Matrix: Water

Analysis Batch: 587187

Client Sample ID: BW-5_062221

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	49.3		ug/L		99	80 - 120
1,1,1-Trichloroethane	2.7		50.0	60.7		ug/L		116	73 - 126

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-186392-3 MS

Matrix: Water

Analysis Batch: 587187

Client Sample ID: BW-5_062221

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	ND		50.0	48.1		ug/L		96	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	49.9		ug/L		100	61 - 148
1,1,2-Trichloroethane	ND		50.0	48.8		ug/L		98	76 - 122
1,1-Dichloroethane	1.6	J	50.0	54.0		ug/L		105	77 - 120
1,1-Dichloroethene	ND		50.0	50.5		ug/L		101	66 - 127
1,1-Dichloropropene	ND		50.0	51.7		ug/L		103	72 - 122
1,2,3-Trichlorobenzene	ND		50.0	45.1		ug/L		90	75 - 123
1,2,3-Trichloropropane	ND		50.0	45.2		ug/L		90	68 - 122
1,2,4-Trichlorobenzene	ND		50.0	46.0		ug/L		92	79 - 122
1,2,4-Trimethylbenzene	ND		50.0	50.2		ug/L		100	76 - 121
1,2-Dibromo-3-Chloropropane	ND		50.0	40.4		ug/L		81	56 - 134
1,2-Dibromoethane	ND		50.0	47.5		ug/L		95	77 - 120
1,2-Dichlorobenzene	ND		50.0	48.9		ug/L		98	80 - 124
1,2-Dichloroethane	ND		50.0	44.1		ug/L		88	75 - 120
1,2-Dichloropropane	ND		50.0	50.8		ug/L		102	76 - 120
1,3,5-Trimethylbenzene	ND		50.0	51.0		ug/L		102	77 - 121
1,3-Dichlorobenzene	ND		50.0	49.8		ug/L		100	77 - 120
1,3-Dichloropropane	ND		50.0	48.5		ug/L		97	75 - 120
1,4-Dichlorobenzene	ND		50.0	49.2		ug/L		98	78 - 124
2,2-Dichloropropane	ND		50.0	51.3		ug/L		103	63 - 136
Benzene	ND		50.0	51.4		ug/L		103	71 - 124
Bromobenzene	ND		50.0	49.5		ug/L		99	78 - 120
Bromochloromethane	ND		50.0	50.4		ug/L		101	72 - 130
Bromodichloromethane	ND		50.0	46.8		ug/L		94	80 - 122
Bromoform	ND		50.0	42.7		ug/L		85	61 - 132
Bromomethane	ND		50.0	45.0		ug/L		90	55 - 144
Carbon tetrachloride	ND		50.0	56.1		ug/L		112	72 - 134
Chlorobenzene	ND		50.0	49.1		ug/L		98	80 - 120
Chloroethane	ND		50.0	50.8		ug/L		102	69 - 136
Chloroform	ND		50.0	49.3		ug/L		99	73 - 127
Chloromethane	ND		50.0	44.0		ug/L		88	68 - 124
cis-1,2-Dichloroethene	5.7		50.0	55.0		ug/L		99	74 - 124
cis-1,3-Dichloropropene	ND		50.0	45.2		ug/L		90	74 - 124
Dibromochloromethane	ND		50.0	46.3		ug/L		93	75 - 125
Dibromomethane	ND		50.0	47.3		ug/L		95	76 - 127
Dichlorodifluoromethane	ND		50.0	43.9		ug/L		88	59 - 135
Ethylbenzene	ND		50.0	50.6		ug/L		101	77 - 123
Hexachlorobutadiene	ND		50.0	45.3		ug/L		91	68 - 131
Isopropylbenzene	ND		50.0	51.6		ug/L		103	77 - 122
Methylene Chloride	ND		50.0	50.9		ug/L		102	75 - 124
Naphthalene	ND		50.0	44.0		ug/L		88	66 - 125
n-Butylbenzene	ND		50.0	50.0		ug/L		100	71 - 128
N-Propylbenzene	ND		50.0	51.7		ug/L		103	75 - 127
o-Chlorotoluene	ND		50.0	50.8		ug/L		102	76 - 121
p-Chlorotoluene	ND		50.0	51.3		ug/L		103	77 - 121
p-Cymene	ND		50.0	51.0		ug/L		102	73 - 120
sec-Butylbenzene	ND		50.0	51.5		ug/L		103	74 - 127
Styrene	ND		50.0	49.5		ug/L		99	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-186392-3 MS

Matrix: Water

Analysis Batch: 587187

Client Sample ID: BW-5_062221

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	ND		50.0	51.2		ug/L		102	75 - 123
Tetrachloroethene	64	F1	50.0	102		ug/L		76	74 - 122
Toluene	ND		50.0	50.5		ug/L		101	80 - 122
trans-1,2-Dichloroethene	ND		50.0	57.6		ug/L		115	73 - 127
trans-1,3-Dichloropropene	ND		50.0	44.5		ug/L		89	80 - 120
Trichloroethene	4.1		50.0	53.2		ug/L		98	74 - 123
Trichlorofluoromethane	ND		50.0	49.2		ug/L		98	62 - 150
Vinyl chloride	ND		50.0	48.1		ug/L		96	65 - 133
Xylenes, Total	ND		100	101		ug/L		101	76 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	96		77 - 120						
4-Bromofluorobenzene (Surr)	97		73 - 120						
Toluene-d8 (Surr)	102		80 - 120						
Dibromofluoromethane (Surr)	99		75 - 123						

Lab Sample ID: 480-186392-3 MSD

Matrix: Water

Analysis Batch: 587187

Client Sample ID: BW-5_062221

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	49.6		ug/L		99	80 - 120	1	20
1,1,1-Trichloroethane	2.7		50.0	60.2		ug/L		115	73 - 126	1	15
1,1,2,2-Tetrachloroethane	ND		50.0	48.4		ug/L		97	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	52.0		ug/L		104	61 - 148	4	20
1,1,2-Trichloroethane	ND		50.0	48.6		ug/L		97	76 - 122	0	15
1,1-Dichloroethane	1.6	J	50.0	52.8		ug/L		102	77 - 120	2	20
1,1-Dichloroethene	ND		50.0	52.2		ug/L		104	66 - 127	3	16
1,1-Dichloropropene	ND		50.0	51.5		ug/L		103	72 - 122	0	20
1,2,3-Trichlorobenzene	ND		50.0	46.3		ug/L		93	75 - 123	3	20
1,2,3-Trichloropropane	ND		50.0	45.7		ug/L		91	68 - 122	1	14
1,2,4-Trichlorobenzene	ND		50.0	47.3		ug/L		95	79 - 122	3	20
1,2,4-Trimethylbenzene	ND		50.0	50.0		ug/L		100	76 - 121	0	20
1,2-Dibromo-3-Chloropropane	ND		50.0	41.7		ug/L		83	56 - 134	3	15
1,2-Dibromoethane	ND		50.0	47.5		ug/L		95	77 - 120	0	15
1,2-Dichlorobenzene	ND		50.0	48.8		ug/L		98	80 - 124	0	20
1,2-Dichloroethane	ND		50.0	43.5		ug/L		87	75 - 120	1	20
1,2-Dichloropropane	ND		50.0	51.1		ug/L		102	76 - 120	0	20
1,3,5-Trimethylbenzene	ND		50.0	50.3		ug/L		101	77 - 121	1	20
1,3-Dichlorobenzene	ND		50.0	49.2		ug/L		98	77 - 120	1	20
1,3-Dichloropropane	ND		50.0	48.8		ug/L		98	75 - 120	1	20
1,4-Dichlorobenzene	ND		50.0	48.9		ug/L		98	78 - 124	1	20
2,2-Dichloropropane	ND		50.0	51.5		ug/L		103	63 - 136	0	20
Benzene	ND		50.0	51.0		ug/L		102	71 - 124	1	13
Bromobenzene	ND		50.0	48.9		ug/L		98	78 - 120	1	15
Bromochloromethane	ND		50.0	49.8		ug/L		100	72 - 130	1	15
Bromodichloromethane	ND		50.0	46.6		ug/L		93	80 - 122	0	15
Bromoform	ND		50.0	43.5		ug/L		87	61 - 132	2	15

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-186392-3 MSD

Matrix: Water

Analysis Batch: 587187

Client Sample ID: BW-5_062221

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		50.0	45.7		ug/L		91	55 - 144	1	15
Carbon tetrachloride	ND		50.0	49.9		ug/L		100	72 - 134	12	15
Chlorobenzene	ND		50.0	49.5		ug/L		99	80 - 120	1	25
Chloroethane	ND		50.0	51.3		ug/L		103	69 - 136	1	15
Chloroform	ND		50.0	48.3		ug/L		97	73 - 127	2	20
Chloromethane	ND		50.0	47.2		ug/L		94	68 - 124	7	15
cis-1,2-Dichloroethene	5.7		50.0	54.2		ug/L		97	74 - 124	1	15
cis-1,3-Dichloropropene	ND		50.0	45.5		ug/L		91	74 - 124	1	15
Dibromochloromethane	ND		50.0	46.1		ug/L		92	75 - 125	0	15
Dibromomethane	ND		50.0	47.5		ug/L		95	76 - 127	0	15
Dichlorodifluoromethane	ND		50.0	43.4		ug/L		87	59 - 135	1	20
Ethylbenzene	ND		50.0	50.3		ug/L		101	77 - 123	1	15
Hexachlorobutadiene	ND		50.0	45.7		ug/L		91	68 - 131	1	20
Isopropylbenzene	ND		50.0	50.2		ug/L		100	77 - 122	3	20
Methylene Chloride	ND		50.0	52.1		ug/L		104	75 - 124	2	15
Naphthalene	ND		50.0	45.5		ug/L		91	66 - 125	4	20
n-Butylbenzene	ND		50.0	49.8		ug/L		100	71 - 128	0	15
N-Propylbenzene	ND		50.0	50.7		ug/L		101	75 - 127	2	15
o-Chlorotoluene	ND		50.0	50.0		ug/L		100	76 - 121	2	20
p-Chlorotoluene	ND		50.0	50.8		ug/L		102	77 - 121	1	15
p-Cymene	ND		50.0	50.0		ug/L		100	73 - 120	2	20
sec-Butylbenzene	ND		50.0	50.9		ug/L		102	74 - 127	1	15
Styrene	ND		50.0	49.1		ug/L		98	80 - 120	1	20
tert-Butylbenzene	ND		50.0	50.1		ug/L		100	75 - 123	2	15
Tetrachloroethene	64	F1	50.0	100	F1	ug/L		72	74 - 122	2	20
Toluene	ND		50.0	49.9		ug/L		100	80 - 122	1	15
trans-1,2-Dichloroethene	ND		50.0	56.1		ug/L		112	73 - 127	3	20
trans-1,3-Dichloropropene	ND		50.0	44.6		ug/L		89	80 - 120	0	15
Trichloroethene	4.1		50.0	52.9		ug/L		98	74 - 123	1	16
Trichlorofluoromethane	ND		50.0	48.8		ug/L		98	62 - 150	1	20
Vinyl chloride	ND		50.0	48.1		ug/L		96	65 - 133	0	15
Xylenes, Total	ND		100	99.9		ug/L		100	76 - 122	1	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Lab Sample ID: MB 480-587342/7

Matrix: Water

Analysis Batch: 587342

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/29/21 11:18	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/29/21 11:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/29/21 11:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/29/21 11:18	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-587342/7

Matrix: Water

Analysis Batch: 587342

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/29/21 11:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/29/21 11:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/29/21 11:18	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			06/29/21 11:18	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			06/29/21 11:18	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/29/21 11:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/29/21 11:18	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			06/29/21 11:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/29/21 11:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/29/21 11:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/29/21 11:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/29/21 11:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/29/21 11:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			06/29/21 11:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/29/21 11:18	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			06/29/21 11:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/29/21 11:18	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/29/21 11:18	1
Benzene	ND		1.0	0.41	ug/L			06/29/21 11:18	1
Bromobenzene	ND		1.0	0.80	ug/L			06/29/21 11:18	1
Bromochloromethane	ND		1.0	0.87	ug/L			06/29/21 11:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/29/21 11:18	1
Bromoform	ND		1.0	0.26	ug/L			06/29/21 11:18	1
Bromomethane	ND		1.0	0.69	ug/L			06/29/21 11:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/29/21 11:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/29/21 11:18	1
Chloroethane	ND		1.0	0.32	ug/L			06/29/21 11:18	1
Chloroform	ND		1.0	0.34	ug/L			06/29/21 11:18	1
Chloromethane	ND		1.0	0.35	ug/L			06/29/21 11:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/29/21 11:18	1
cis-1,3-Dichloropropane	ND		1.0	0.36	ug/L			06/29/21 11:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/29/21 11:18	1
Dibromomethane	ND		1.0	0.41	ug/L			06/29/21 11:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/29/21 11:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/29/21 11:18	1
Hexachlorobutadiene	ND		1.0	0.28	ug/L			06/29/21 11:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/29/21 11:18	1
Methylene Chloride	0.576	J	1.0	0.44	ug/L			06/29/21 11:18	1
Naphthalene	ND		1.0	0.43	ug/L			06/29/21 11:18	1
n-Butylbenzene	ND		1.0	0.64	ug/L			06/29/21 11:18	1
N-Propylbenzene	ND		1.0	0.69	ug/L			06/29/21 11:18	1
o-Chlorotoluene	ND		1.0	0.86	ug/L			06/29/21 11:18	1
p-Chlorotoluene	ND		1.0	0.84	ug/L			06/29/21 11:18	1
p-Cymene	ND		1.0	0.31	ug/L			06/29/21 11:18	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			06/29/21 11:18	1
Styrene	ND		1.0	0.73	ug/L			06/29/21 11:18	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			06/29/21 11:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/29/21 11:18	1
Toluene	ND		1.0	0.51	ug/L			06/29/21 11:18	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-587342/7

Matrix: Water

Analysis Batch: 587342

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/29/21 11:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/29/21 11:18	1
Trichloroethene	ND		1.0	0.46	ug/L			06/29/21 11:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/29/21 11:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/29/21 11:18	1
Xylenes, Total	ND		1.0	0.66	ug/L			06/29/21 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		06/29/21 11:18	1
4-Bromofluorobenzene (Surr)	94		73 - 120		06/29/21 11:18	1
Toluene-d8 (Surr)	99		80 - 120		06/29/21 11:18	1
Dibromofluoromethane (Surr)	98		75 - 123		06/29/21 11:18	1

Lab Sample ID: LCS 480-587342/5

Matrix: Water

Analysis Batch: 587342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		100	80 - 120
1,1,1-Trichloroethane	25.0	27.4		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		96	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.4		ug/L		90	61 - 148
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	76 - 122
1,1-Dichloroethane	25.0	25.4		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	23.6		ug/L		94	66 - 127
1,1-Dichloropropene	25.0	24.5		ug/L		98	72 - 122
1,2,3-Trichlorobenzene	25.0	23.1		ug/L		92	75 - 123
1,2,3-Trichloropropane	25.0	22.5		ug/L		90	68 - 122
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		95	79 - 122
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	20.9		ug/L		84	56 - 134
1,2-Dibromoethane	25.0	24.1		ug/L		96	77 - 120
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	22.0		ug/L		88	75 - 120
1,2-Dichloropropane	25.0	25.7		ug/L		103	76 - 120
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	77 - 121
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	77 - 120
1,3-Dichloropropane	25.0	24.8		ug/L		99	75 - 120
1,4-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 120
2,2-Dichloropropane	25.0	26.8		ug/L		107	63 - 136
Benzene	25.0	25.2		ug/L		101	71 - 124
Bromobenzene	25.0	24.6		ug/L		98	78 - 120
Bromochloromethane	25.0	24.7		ug/L		99	72 - 130
Bromodichloromethane	25.0	23.8		ug/L		95	80 - 122
Bromoform	25.0	23.4		ug/L		94	61 - 132
Bromomethane	25.0	23.2		ug/L		93	55 - 144
Carbon tetrachloride	25.0	26.5		ug/L		106	72 - 134
Chlorobenzene	25.0	24.5		ug/L		98	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-587342/5

Matrix: Water

Analysis Batch: 587342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	25.0	25.5		ug/L		102	69 - 136
Chloroform	25.0	23.9		ug/L		96	73 - 127
Chloromethane	25.0	19.9		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	74 - 124
Dibromochloromethane	25.0	24.3		ug/L		97	75 - 125
Dibromomethane	25.0	24.0		ug/L		96	76 - 127
Dichlorodifluoromethane	25.0	19.1		ug/L		76	59 - 135
Ethylbenzene	25.0	24.9		ug/L		100	77 - 123
Hexachlorobutadiene	25.0	22.5		ug/L		90	68 - 131
Isopropylbenzene	25.0	24.7		ug/L		99	77 - 122
Methylene Chloride	25.0	26.3		ug/L		105	75 - 124
Naphthalene	25.0	22.4		ug/L		90	66 - 125
n-Butylbenzene	25.0	25.2		ug/L		101	71 - 128
N-Propylbenzene	25.0	25.2		ug/L		101	75 - 127
o-Chlorotoluene	25.0	25.1		ug/L		100	76 - 121
p-Chlorotoluene	25.0	25.4		ug/L		102	77 - 121
p-Cymene	25.0	25.2		ug/L		101	73 - 120
sec-Butylbenzene	25.0	25.1		ug/L		101	74 - 127
Styrene	25.0	25.0		ug/L		100	80 - 120
tert-Butylbenzene	25.0	25.1		ug/L		100	75 - 123
Tetrachloroethene	25.0	24.7		ug/L		99	74 - 122
Toluene	25.0	24.8		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	27.7		ug/L		111	73 - 127
trans-1,3-Dichloropropene	25.0	23.5		ug/L		94	80 - 120
Trichloroethene	25.0	24.4		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	22.3		ug/L		89	62 - 150
Vinyl chloride	25.0	22.6		ug/L		90	65 - 133
Xylenes, Total	50.0	49.6		ug/L		99	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-168535/1-A

Matrix: Water

Analysis Batch: 168576

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 168535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.39	ng/L		06/29/21 10:15	06/29/21 18:26	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	1.1	ng/L		06/29/21 10:15	06/29/21 18:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	ND		5.0	0.74	ng/L		06/29/21 10:15	06/29/21 18:26	1

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-168535/1-A

Matrix: Water

Analysis Batch: 168576

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 168535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.90	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.25	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorobutanoic acid (PFBA)	ND		5.0	0.89	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.30	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.39	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.23	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.24	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.30	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.45	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.28	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.58	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.29	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.42	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.47	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.63	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluorotridecanoic acid (PFTrIA)	ND		2.0	0.43	ng/L		06/29/21 10:15	06/29/21 18:26	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34	ng/L		06/29/21 10:15	06/29/21 18:26	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	97		50 - 150	06/29/21 10:15	06/29/21 18:26	1
13C2 PFDoA	69		50 - 150	06/29/21 10:15	06/29/21 18:26	1
13C2 PFHxA	102		50 - 150	06/29/21 10:15	06/29/21 18:26	1
13C2 PFTeDA	57		50 - 150	06/29/21 10:15	06/29/21 18:26	1
13C2 PFUnA	90		50 - 150	06/29/21 10:15	06/29/21 18:26	1
13C3 PFBS	92		50 - 150	06/29/21 10:15	06/29/21 18:26	1
13C4 PFBA	103		25 - 150	06/29/21 10:15	06/29/21 18:26	1
13C4 PFHpA	98		50 - 150	06/29/21 10:15	06/29/21 18:26	1
13C4 PFOA	101		50 - 150	06/29/21 10:15	06/29/21 18:26	1
13C4 PFOS	95		50 - 150	06/29/21 10:15	06/29/21 18:26	1
13C5 PFNA	99		50 - 150	06/29/21 10:15	06/29/21 18:26	1
13C5 PFPeA	105		25 - 150	06/29/21 10:15	06/29/21 18:26	1
13C8 FOSA	57		25 - 150	06/29/21 10:15	06/29/21 18:26	1
18O2 PFHxS	91		50 - 150	06/29/21 10:15	06/29/21 18:26	1
d3-NMeFOSAA	84		50 - 150	06/29/21 10:15	06/29/21 18:26	1
d5-NEtFOSAA	78		50 - 150	06/29/21 10:15	06/29/21 18:26	1
M2-6:2 FTS	92		25 - 150	06/29/21 10:15	06/29/21 18:26	1
M2-8:2 FTS	101		25 - 150	06/29/21 10:15	06/29/21 18:26	1

Lab Sample ID: LCS 200-168535/2-A

Matrix: Water

Analysis Batch: 168576

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 168535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	43.5		ng/L		113	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	43.6		ng/L		115	50 - 150

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-168535/2-A

Matrix: Water

Analysis Batch: 168576

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 168535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	44.2		ng/L		110	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	45.3		ng/L		113	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	41.1		ng/L		116	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	46.4		ng/L		116	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	36.4		ng/L		94	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	42.9		ng/L		107	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	49.6		ng/L		124	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	44.3		ng/L		116	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	44.7		ng/L		112	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	42.4		ng/L		117	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	45.4		ng/L		114	70 - 130
Perfluorononanoic acid (PFNA)	40.0	46.7		ng/L		117	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	43.2		ng/L		108	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	41.3		ng/L		111	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	45.6		ng/L		114	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	47.2		ng/L		118	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	51.2		ng/L		128	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	45.5		ng/L		114	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	52.6	*+	ng/L		131	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFDA	104		50 - 150
13C2 PFDoA	71		50 - 150
13C2 PFHxA	110		50 - 150
13C2 PFTeDA	63		50 - 150
13C2 PFUnA	86		50 - 150
13C3 PFBS	98		50 - 150
13C4 PFBA	108		25 - 150
13C4 PFHpA	102		50 - 150
13C4 PFOA	103		50 - 150
13C4 PFOS	97		50 - 150
13C5 PFNA	101		50 - 150
13C5 PFPeA	107		25 - 150
13C8 FOSA	67		25 - 150
18O2 PFHxS	94		50 - 150
d3-NMeFOSAA	84		50 - 150
d5-NEtFOSAA	80		50 - 150
M2-6:2 FTS	100		25 - 150
M2-8:2 FTS	108		25 - 150

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-186392-3 MS

Matrix: Water

Analysis Batch: 168576

Client Sample ID: BW-5_062221

Prep Type: Total/NA

Prep Batch: 168535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		30.2	36.0		ng/L		119	40 - 160
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		29.9	38.3		ng/L		128	40 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		31.5	37.2		ng/L		118	40 - 160
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		31.5	34.3		ng/L		109	40 - 160
Perfluorobutanesulfonic acid (PFBS)	1.1	J	27.8	35.1		ng/L		122	40 - 160
Perfluorobutanoic acid (PFBA)	5.5		31.5	40.6		ng/L		112	40 - 160
Perfluorodecanesulfonic acid (PFDS)	14		30.4	41.5		ng/L		89	40 - 160
Perfluorodecanoic acid (PFDA)	0.73	J	31.5	36.8		ng/L		115	40 - 160
Perfluorododecanoic acid (PFDoA)	ND		31.5	40.3		ng/L		128	40 - 160
Perfluoroheptanesulfonic Acid (PFHpS)	1.4	J	30.0	38.1		ng/L		123	40 - 160
Perfluoroheptanoic acid (PFHpA)	4.1		31.5	41.4		ng/L		118	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	3.8		28.7	37.2		ng/L		117	40 - 160
Perfluorohexanoic acid (PFHxA)	4.2		31.5	40.1		ng/L		114	40 - 160
Perfluorononanoic acid (PFNA)	1.1	J	31.5	38.7		ng/L		119	40 - 160
Perfluorooctanesulfonamide (PFOSA)	2.6		31.5	40.1		ng/L		119	40 - 160
Perfluorooctanesulfonic acid (PFOS)	120		29.2	157	4	ng/L		111	40 - 160
Perfluorooctanoic acid (PFOA)	19		31.5	54.9		ng/L		115	40 - 160
Perfluoropentanoic acid (PFPeA)	5.1		31.5	41.7		ng/L		116	40 - 160
Perfluorotetradecanoic acid (PFTeA)	ND		31.5	39.1		ng/L		124	40 - 160
Perfluorotridecanoic acid (PFTriA)	ND		31.5	37.2		ng/L		118	40 - 160
Perfluoroundecanoic acid (PFUnA)	ND	*+	31.5	37.1		ng/L		118	40 - 160

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2 PFDA	85		50 - 150
13C2 PFDoA	67		50 - 150
13C2 PFHxA	98		50 - 150
13C2 PFTeDA	68		50 - 150
13C2 PFUnA	74		50 - 150
13C3 PFBS	89		50 - 150
13C4 PFBA	92		25 - 150
13C4 PFHpA	95		50 - 150
13C4 PFOA	96		50 - 150
13C4 PFOS	83		50 - 150
13C5 PFNA	90		50 - 150
13C5 PFPeA	96		25 - 150
13C8 FOSA	73		25 - 150
18O2 PFHxS	88		50 - 150
d3-NMeFOSAA	69		50 - 150

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-186392-3 MS

Matrix: Water

Analysis Batch: 168576

Client Sample ID: BW-5_062221

Prep Type: Total/NA

Prep Batch: 168535

<i>Isotope Dilution</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
d5-NEtFOSAA	63		50 - 150
M2-6:2 FTS	87		25 - 150
M2-8:2 FTS	88		25 - 150

Lab Sample ID: 480-186392-3 MSD

Matrix: Water

Analysis Batch: 168576

Client Sample ID: BW-5_062221

Prep Type: Total/NA

Prep Batch: 168535

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		31.8	35.7		ng/L		112	40 - 160	1	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		31.5	40.7		ng/L		129	40 - 160	6	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		33.2	39.5		ng/L		119	40 - 160	6	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		33.2	38.4		ng/L		116	40 - 160	11	20
Perfluorobutanesulfonic acid (PFBS)	1.1	J	29.4	37.0		ng/L		122	40 - 160	5	20
Perfluorobutanoic acid (PFBA)	5.5		33.2	42.5		ng/L		111	40 - 160	5	30
Perfluorodecanesulfonic acid (PFDS)	14		32.0	46.6		ng/L		101	40 - 160	12	30
Perfluorodecanoic acid (PFDA)	0.73	J	33.2	38.5		ng/L		114	40 - 160	5	20
Perfluorododecanoic acid (PFDoA)	ND		33.2	39.7		ng/L		119	40 - 160	2	20
Perfluoroheptanesulfonic Acid (PFHpS)	1.4	J	31.6	40.4		ng/L		123	40 - 160	6	30
Perfluoroheptanoic acid (PFHpA)	4.1		33.2	44.4		ng/L		121	40 - 160	7	20
Perfluorohexanesulfonic acid (PFHxS)	3.8		30.2	39.6		ng/L		118	40 - 160	6	20
Perfluorohexanoic acid (PFHxA)	4.2		33.2	44.7		ng/L		122	40 - 160	11	20
Perfluorononanoic acid (PFNA)	1.1	J	33.2	39.4		ng/L		115	40 - 160	2	20
Perfluorooctanesulfonamide (PFOSA)	2.6		33.2	41.9		ng/L		118	40 - 160	4	30
Perfluorooctanesulfonic acid (PFOS)	120		30.8	157	4	ng/L		107	40 - 160	0	20
Perfluorooctanoic acid (PFOA)	19		33.2	56.9		ng/L		115	40 - 160	4	20
Perfluoropentanoic acid (PFPeA)	5.1		33.2	44.3		ng/L		118	40 - 160	6	30
Perfluorotetradecanoic acid (PFTeA)	ND		33.2	40.2		ng/L		121	40 - 160	3	20
Perfluorotridecanoic acid (PFTriA)	ND		33.2	33.7		ng/L		102	40 - 160	10	20
Perfluoroundecanoic acid (PFUnA)	ND	+	33.2	41.0		ng/L		124	40 - 160	10	20

<i>Isotope Dilution</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
13C2 PFDA	96		50 - 150
13C2 PFDoA	93		50 - 150
13C2 PFHxA	104		50 - 150
13C2 PFTeDA	77		50 - 150
13C2 PFUnA	87		50 - 150
13C3 PFBS	92		50 - 150

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-186392-3 MSD

Matrix: Water

Analysis Batch: 168576

Client Sample ID: BW-5_062221

Prep Type: Total/NA

Prep Batch: 168535

Isotope Dilution	MSD	MSD	Limits
	%Recovery	Qualifier	
13C4 PFBA	99		25 - 150
13C4 PFHpA	101		50 - 150
13C4 PFOA	102		50 - 150
13C4 PFOS	91		50 - 150
13C5 PFNA	100		50 - 150
13C5 PFPeA	103		25 - 150
13C8 FOSA	84		25 - 150
18O2 PFHxS	93		50 - 150
d3-NMeFOSAA	79		50 - 150
d5-NEtFOSAA	73		50 - 150
M2-6:2 FTS	93		25 - 150
M2-8:2 FTS	104		25 - 150

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

GC/MS VOA

Analysis Batch: 587187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186392-3	BW-5_062221	Total/NA	Water	8260C	
480-186392-5	TRIP BLANK	Total/NA	Water	8260C	
480-186392-6	DUP	Total/NA	Water	8260C	
MB 480-587187/7	Method Blank	Total/NA	Water	8260C	
LCS 480-587187/45	Lab Control Sample	Total/NA	Water	8260C	
480-186392-3 MS	BW-5_062221	Total/NA	Water	8260C	
480-186392-3 MSD	BW-5_062221	Total/NA	Water	8260C	

Analysis Batch: 587342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186392-1	RW-4_062221	Total/NA	Water	8260C	
480-186392-2	K-WELL_062221	Total/NA	Water	8260C	
MB 480-587342/7	Method Blank	Total/NA	Water	8260C	
LCS 480-587342/5	Lab Control Sample	Total/NA	Water	8260C	

LCMS

Prep Batch: 168535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186392-1	RW-4_062221	Total/NA	Water	3535	
480-186392-2	K-WELL_062221	Total/NA	Water	3535	
480-186392-3	BW-5_062221	Total/NA	Water	3535	
480-186392-4	EQUIPMENT BLANK	Total/NA	Water	3535	
480-186392-6	DUP	Total/NA	Water	3535	
MB 200-168535/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-168535/2-A	Lab Control Sample	Total/NA	Water	3535	
480-186392-3 MS	BW-5_062221	Total/NA	Water	3535	
480-186392-3 MSD	BW-5_062221	Total/NA	Water	3535	

Analysis Batch: 168576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-186392-1	RW-4_062221	Total/NA	Water	537 (modified)	168535
480-186392-2	K-WELL_062221	Total/NA	Water	537 (modified)	168535
480-186392-3	BW-5_062221	Total/NA	Water	537 (modified)	168535
480-186392-4	EQUIPMENT BLANK	Total/NA	Water	537 (modified)	168535
480-186392-6	DUP	Total/NA	Water	537 (modified)	168535
MB 200-168535/1-A	Method Blank	Total/NA	Water	537 (modified)	168535
LCS 200-168535/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	168535
480-186392-3 MS	BW-5_062221	Total/NA	Water	537 (modified)	168535
480-186392-3 MSD	BW-5_062221	Total/NA	Water	537 (modified)	168535

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Client Sample ID: RW-4_062221

Lab Sample ID: 480-186392-1

Date Collected: 06/22/21 10:35

Matrix: Water

Date Received: 06/23/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	587342	06/29/21 15:29	LCH	TAL BUF
Total/NA	Prep	3535			168535	06/29/21 10:16	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168576	06/29/21 20:39	BWC	TAL BUR

Client Sample ID: K-WELL_062221

Lab Sample ID: 480-186392-2

Date Collected: 06/22/21 13:40

Matrix: Water

Date Received: 06/23/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	587342	06/29/21 15:51	LCH	TAL BUF
Total/NA	Prep	3535			168535	06/29/21 10:16	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168576	06/29/21 20:47	BWC	TAL BUR

Client Sample ID: BW-5_062221

Lab Sample ID: 480-186392-3

Date Collected: 06/22/21 12:05

Matrix: Water

Date Received: 06/23/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	587187	06/28/21 17:46	CRL	TAL BUF
Total/NA	Prep	3535			168535	06/29/21 10:16	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168576	06/29/21 20:55	BWC	TAL BUR

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-186392-4

Date Collected: 06/22/21 12:45

Matrix: Water

Date Received: 06/23/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			168535	06/29/21 10:16	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168576	06/29/21 21:20	BWC	TAL BUR

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-186392-5

Date Collected: 06/22/21 00:00

Matrix: Water

Date Received: 06/23/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	587187	06/28/21 18:08	CRL	TAL BUF

Client Sample ID: DUP

Lab Sample ID: 480-186392-6

Date Collected: 06/22/21 00:00

Matrix: Water

Date Received: 06/23/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	587187	06/28/21 18:31	CRL	TAL BUF
Total/NA	Prep	3535			168535	06/29/21 10:16	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	168576	06/29/21 21:29	BWC	TAL BUR

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-17-22
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-21
New Hampshire	NELAP	2006	12-18-21
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-22
Pennsylvania	NELAP	68-00489	04-30-22
Rhode Island	State	LAO00298	12-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	02-10-22
Virginia	NELAP	460209	12-14-21
Wisconsin	State	399133350	08-31-21

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-186392-1	RW-4_062221	Water	06/22/21 10:35	06/23/21 08:00	
480-186392-2	K-WELL_062221	Water	06/22/21 13:40	06/23/21 08:00	
480-186392-3	BW-5_062221	Water	06/22/21 12:05	06/23/21 08:00	
480-186392-4	EQUIPMENT BLANK	Water	06/22/21 12:45	06/23/21 08:00	
480-186392-5	TRIP BLANK	Water	06/22/21 00:00	06/23/21 08:00	
480-186392-6	DUP	Water	06/22/21 00:00	06/23/21 08:00	

Quantitation Limit Exceptions Summary

Client: AECOM Technical Services Inc.
Project/Site: Philips - Saugerties, NY site

Job ID: 480-186392-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260C	Hexachlorobutadiene	Water	Total/NA	ug/L	1.0	2.0
8260C	Xylenes, Total	Water	Total/NA	ug/L	1.0	2.0

Client Information		Sampler: AN + LS		Lab PM: Schove, John R	Carrier Tracking No(s): 480-161866-32571.1	COC No: 480-161866-32571.1
Client Contact: Lindsay Mitchell		Phone: 518-925-4951		E-Mail: John.Schove@Eurofinset.com	State of Origin: NY	Page: 1 of 1
Company: AECOM Technical Services Inc.		PWSID:		Job #:		
Address: 40 British American Boulevard		Due Date Requested:		Analysis Requested		
City: Latham		TAT Requested (days): Standard		Preservation Codes:		
State, Zip: NY, 12110		Compliance Project: Δ Yes Δ No		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		
Phone: 518-951-2200(Tel)		PO #:				
Email: lindsay.mitchell@aecom.com		WO #:		480-186392 Chain of Custody		
Project Name: Philips - Saugerties, NY site		60542665				
Site: New York		48003119				
		SSOW#:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC, IDA - PFS, Standard List (21 Analytes)	8260C - VOCs	Special Instructions/Note:
RW-4 062221	6/22/21	1035	G	Water					
K-Well 062221	↓	1340		Water					
BW-5 062221	↓	1205		Water					*MS/MSD here
DUP	-	-		Water					
MS	6/22/21	1205		Water					
MSD	↓	1205		Water					
Equipment Blank	-	-		Water					
Tie Blank	-	-		Water					

Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	

Empty Kit Relinquished by:		Date:	
Relinquished by: Andrew John / AECOM	Date/Time: 6/22/21 1400	Received by: John Schove	Date/Time: 6/23/21 1400
Relinquished by: John Schove	Date/Time: 6/22/21 1700	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 3.8 #1	

Client Information		Lab PM: Schove, John R		Carrier Tracking No(s):		COC No: 480-161866-32571.1	
Client Contact: Lindsay Mitchell		E-Mail: John.Schove@Eurofinset.com		State of Origin: NY		Page: Page 1 of 1	
Company: AECOM Technical Services Inc.		PWSID:		Analysis Requested		Job #:	
Address: 40 British American Boulevard		Due Date Requested:		TAT Requested (days):		Preservation Codes:	
City: Latham		Compliance Project: ☒ Yes ☐ No		Standard		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (Specify)	
Phone: 518-951-2200(Tel)		PO #: PO 135104		Matrix (W=water, S=solid, O=oil)		Water	
Email: lindsay.mitchell@aecom.com		WO #: 60542665		Sample Type (C=Comp, G=grab)		Water	
Project Name: Philips - Saugerfies, NY site		Project #: 48003119		Sample Date		Sample Time	
Site: New York		SSOW#:		Sample Date		Sample Time	
Sample Identification		Sample Date		Sample Time		Matrix	
RW-4 062221		6/22/21		1035		Water	
K-Well 062221		↓		1340		Water	
BW-5 062221		↓		1205		Water	
DUP		-		-		Water	
MS		6/22/21		1205		Water	
MSD		↓		1205		Water	
Equipment Blank		↓		1245		Water	
Tap Blank		-		-		Water	
Total		5		5		5	
Special Instructions/Note:		480-186392 Chain of Custody		Special Instructions/Note:		*MS/MSD here	
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by:		Date:		Return To Client ☐ Disposal By Lab ☒ Archive For ☐ Months		Special Instructions/QC Requirements:	
Relinquished by: [Signature]		Date/Time: 6/22/21 1400		Company: AECOM		Date/Time: 6/22/21 1400	
Relinquished by: [Signature]		Date/Time: 6/22/21 1700		Company: [Signature]		Date/Time: 6/22/21 10:30	
Relinquished by: [Signature]		Date/Time:		Company:		Date/Time:	
Custody Seals Intact		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

FROM: (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

ALBANY NY 12205
US

SHIP DATE: 22 JUN 21
ACTWGT: 22.15 LB
CAD: 0886598/CAFE3409

BILL 3rd PARTY

550C3/1387/05A2

TO **SAMPLE RECEIVING**
TESTAMERICA - BURLINGTON
30 COMMUNITY DRIVE, SUITE 11

BURLINGTON VT 05403

(802) 660-1990
REF: ASAGERTIES PFAS

(US)



FedEx
Ground



J201120121801uv

TRK# **5013 1604 9557**

05403

9622 0417 3 (000 000 0000) 0 00 5013 1604 9557



Part # 156148-434 RIT EXP 1/21

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 480-186392-1

Login Number: 186392

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 480-186392-1

Login Number: 186392

List Number: 2

Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington

List Creation: 06/25/21 09:09 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1595406
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	