

29 May 2024

TECHNICAL MEMORANDUM

TO: Jasmine Stefansky, NYSDEC Project Manager

FROM: Joshua Oliver, EA Project Manager

SUBJECT: September 2023 Groundwater Sampling and Results
Contract/Work Assignment No: D009806-34
Rose Valley Landfill, Town of Russia, New York
Site No. 622017

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) was tasked by the New York State Department of Environmental Conservation (NYSDEC), under Work Assignment Number (No.) D009806-34 to conduct site management which includes a biennial sampling event for groundwater and surface water at the Rose Valley Landfill Site (Number [No.] 622017) (Site) in the Town of Russia, Herkimer, New York (**Figure 1**).

1. FIELD ACTIVITIES

1.1 GROUNDWATER AND SURFACE WATER SAMPLING

Groundwater samples were collected from 10 of the 10 proposed monitoring wells using low-flow sampling techniques on 25 and 26 September 2023. The well headspace was screened with a PID, and static water levels and well depths were gauged at all monitoring wells after sampling due to PFAS. Gauging logs and purge forms with water quality parameters and sampling information for each well are included as **Attachment A**. Four surface water samples were collected northeast of the landfill which is downgradient of groundwater flow (**Figure 2**).

Seven groundwater samples were collected in laboratory provided sample containers for analysis of VOCs (EPA Method 8260C), PFAS (EPA Method 1633), 1,4-dioxane (EPA method 8270D SIM). Three groundwater samples were collected for analysis for only VOCs (EPA Method 8260C). Four surface water samples were collected in laboratory provided sample containers for analysis of VOCs (EPA Method 8260C), PFAS (EPA Method 1633), 1,4-dioxane (EPA method 8270D SIM). A field duplicate as well as a matrix spike and matrix spike duplicate were taken for each analyte.

Groundwater samples were analyzed by NYSDEC Call-out Laboratory, SGS. Laboratory reports from the groundwater sampling at the site can be found in **Attachment B**.

Trend graphs analysis for the VOC and PFAS COCs can be found in **Appendix C**.

2. RESULTS SUMMARY

2.1 GROUNDWATER SAMPLING RESULTS

Groundwater analytical results were compared to New York State Department of Environmental Conservation Ambient Water Quality Standards (AWQS) and are shown in **Figure 3** and **Figure 4** and summarized below (**Table 1a** and **Table 1b**).

1,1-dichloroethane (DCA) was the only VOC that exceeded the NYSDEC AWQS of 5 µg/L at 1 of 10 wells (MW-04) at a concentration of 7.2 µg/L.

Cis-1,2-dichloroethylene was detected in 2 of 10 wells (MW-03 and MW-04) at concentrations of 3.9 µg/L and 1.4 µg/L, respectively, below the NYSDEC AWQS of 5 µg/L.

No detections were reported for 1,1,1-trichloroethane (TCA), trichloroethylene (TCE), tetrachloroethylene (PCE), and vinyl chloride (VC).

1,4-dioxane was detected in 4 of 7 wells (MW-03, MW-04, MW-16, SW-04S) at concentrations ranging from 0.11 µg/L (MW-03) to 1.12 µg/L (MW-04). MW-04 was the only well with detections exceeding the NYSDEC AWQS of 0.35 µg/L. This is historically accurate compared to data from 2010-2021.

Perfluorooctanoic acid (PFOA) was detected in 4 of 7 wells (MW-03, MW-04, SW-01S, and SW-04S) ranging from an estimated concentration of 0.85 ng/L (SW-04S) to 10 ng/L (MW-03). Two wells exceeded the NYSDEC AWQS 6.7 ng/L (MW-03 and MW-04) at concentrations of 10 ng/L and 7.6 ng/L, respectively.

Perfluorooctanesulfonic acid (PFOS) was not detected in any of the wells sampled.

Perfluorobutanesulfonic acid (PFBS), Perfluorobutanoic acid, Perfluoroheptanoic acid (PFHpA), Perfluorohexanesulfonic acid (PFHxS), Perfluorohexanoic acid (PFHxA), Perfluoropentanesulfonic acid (PFPeS), Perfluoropentanoic acid (PFPeA) were detected in one or more wells.

2.2 SURFACE WATER SAMPLING RESULTS

Surface water analytical results were compared to New York State Department of Environmental Conservation Ambient Water Quality Standards (AWQS) and are summarized below (**Table 2a** and **Table 2b**).

No VOCs were detected exceeding NYSDEC AWQS.

Acetone, 1,4-dichlorobenzene, benzene, chlorobenzene, and chloroethane were detected in one or more surface water samples.

1,4-dioxane was detected in 4 of 4 surface water samples (NDP, SDP, SWTR-1E, SWTR-1T) ranging from an estimated concentration of 0.08 µg/L (SDP) to 0.53 µg/L (SWTR-1T). SWTR-1T was the only sample exceeding the NYSDEC AWQS of 0.35 µg/L.

Perfluorooctanesulfonic acid (PFOS) was detected in 4 of 4 surface water samples at concentrations ranging from 5.7 ng/L (SWTR-1E) to 150 ng/L (SWTR-1T). All samples exceeded the NYSDEC AWQS 2.7 ng/L.

Perfluorooctanoic acid (PFOA) was detected in 4 of 4 surface water samples at concentrations ranging from 5.1 ng/L (SWTR-1E) to 60 ng/L (SWTR-1T). Three of the samples exceeded the NYSDEC AWQS 6.7 ng/L (NDP, SDP and SWTR-1T) at concentrations of an estimated 8.4 ng/L, 9.7 ng/L and 60 ng/L, respectively.

Perfluorooctane Sulfonamide (PFOSA), N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA), Perfluorobutanesulfonic acid (PFBS), Perfluorobutanoic acid, Perfluoroheptanoic acid (PFHpA), Perfluorohexanesulfonic acid (PFHxS), Perfluorohexanoic acid (PFHxA), Perfluoropentanesulfonic acid (PFPeS), Perfluoropentanoic acid (PFPeA), N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) were detected in one or more surface water samples.

3. CONCLUSIONS

The primary COC related to the Site was DCA and TCA. Only one well exceeded the NYSDEC AWQS for DCA during the September 2023 sampling event which indicates that the primary Site COC has been addressed through the excavation performed to remediate the Site. PFAS and 1,4-dioxane exceedances above the NYSDEC AWQS were observed during the September 2023 sampling event for some monitoring wells. It is important to note that the exceedances are consistent with historical levels measured at the Site.

All four surface water samples exceeded NYSDEC AWQS for PFOA and PFOS and only one sample exceeded the 1,4-dioxane NYSDEC AWQS.

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Tables

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Table 1a. Groundwater VOCs Results																	
Location ID Sample Name Parent Sample ID Sample Date			MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-04WG MW-04	MW-04WG MW-04	MW-04WG MW-04	MW-04WG MW-04
			4/21/2010	7/13/2011	10/18/2012	10/16/2013	10/15/2014	10/7/2015	1/24/2017	12/5/2017	10/22/2019	9/7/2021	9/25/2023	4/21/2010	7/13/2011	10/18/2012	10/16/2013
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)																	
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.82 U	< 0.82 U	< 0.060 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 U	< 0.82 U	< 0.82 U	< 0.54 U	< 0.82 U	< 0.82 U	< 0.060 U	< 0.82 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.21 U	< 0.21 U	< 0.65 U	< 0.21 U	< 0.21 U	< 0.12 U	< 0.21 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.31 U	< 0.31 U	< 0.76 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U	< 0.31 U	< 0.31 U	< 0.58 U	< 0.31 U	< 0.31 U	< 0.76 U	< 0.31 U
1,1,2-Trichloroethane	1	µg/L	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.10 U	< 0.23 U
1,1-Dichloroethane	5	µg/L	2.3	2.2	3 J	1.9	1.6	1.7	6.3	1.4	1.2	0.93 J	0.85 J	9.3	10	15	11
1,1-Dichloroethene	5	µg/L	< 0.29 U	< 0.29 U	< 0.16 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 0.29 U	< 0.29 U	< 0.59 U	< 0.29 U	< 0.29 U	< 0.16 U	< 0.29 U
1,2,3-Trichlorobenzene	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 0.41 U	< 0.41 U	< 0.30 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 0.41 U	< 0.41 U	< 0.5 U	< 0.41 U	< 0.41 U	< 0.30 U	< 0.41 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.39 UJ	< 0.39 UJ	< 0.18 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 UJ	< 0.39 UJ	< 0.18 U	< 0.39 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.73 U	< 0.73 U	< 0.085 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 0.73 U	< 0.73 U	< 0.48 U	< 0.73 U	< 0.73 U	< 0.085 U	< 0.73 U
1,2-Dichlorobenzene	3	µg/L	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 0.79 U	< 0.79 U	< 0.53 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U
1,2-Dichloroethane	0.6	µg/L	< 0.21 U	< 0.21 U	< 0.087 U	< 0.21 U	0.79 J	< 0.21 U	< 0.21 U	< 0.20 U	< 0.21 U	< 0.21 U	< 0.6 U	< 0.21 U	< 0.21 U	< 0.087 U	< 0.21 U
1,2-Dichloropropane	1	µg/L	< 0.72 U	< 0.72 U	< 0.095 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 0.72 U	< 0.72 U	< 0.51 U	< 0.72 U	< 0.72 U	< 0.095 U	< 0.72 U
1,3-Dichlorobenzene	3	µg/L	< 0.78 U	< 0.78 U	< 0.13 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.78 U	< 0.78 U	< 0.54 U	< 0.78 U	< 0.78 U	< 0.13 U	< 0.78 U
1,4-Dichlorobenzene	3	µg/L	< 0.84 U	< 0.84 U	< 0.11 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.11 U	< 0.84 U
2-Hexanone	50	µg/L	< 1.2 U	< 1.2 U	< 0.44 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 1.2 U	< 1.2 U	< 4.8 U	< 1.2 U	< 1.2 U	< 0.44 U	< 1.2 U
Acetone	50	µg/L	< 3.0 U	< 3.0 U	< 0.36 U	< 3 U	< 3.0 U	< 3.0 U	< 3.0 U	2.9 J	< 3.0 U	< 3.0 U	< 3.1 U	< 3.0 U	< 3.0 U	< 0.36 U	< 3 U
Benzene	1	µg/L	< 0.41 U	< 0.41 U	< 0.074 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	0.26 J	< 0.41 U	< 0.41 U	< 0.43 U	< 0.41 U	< 0.41 U	< 0.074 U	< 0.41 U
Bromochloromethane	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48 U	NA	NA	NA	NA
Bromodichloromethane	50	µg/L	< 0.39 U	< 0.39 U	< 0.063 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.063 U	< 0.39 U
Bromoform	50	µg/L	< 0.26 UJ	< 0.26 UJ	< 0.49 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 UJ	< 0.29 U	< 0.26 U	< 0.26 U	< 0.63 U	< 0.26 UJ	< 0.26 UJ	< 0.49 U	< 0.26 U
Bromomethane	5	µg/L	< 0.69 UJ	< 0.69 UJ	< 0.22 UJ	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 UJ	< 0.69 U	< 0.35 UJ	< 0.69 U	< 0.69 U	< 0.69 UJ	< 0.69 UJ	< 0.22 U	< 0.69 U
Carbon Disulfide	60	µg/L	< 0.19 U	< 0.19 U	< 0.54 U	< 0.19 U	< 0.19 U	< 0.19 UJ	0.27 J	< 0.22 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.54 U	< 0.19 U
Carbon Tetrachloride	5	µg/L	< 0.27 U	< 0.27 UJ	< 0.47 UJ	< 0.27 U	< 0.27 UJ	< 0.27 U	< 0.27 U	< 0.18 U	< 0.27 U	< 0.27 U	< 0.55 U	< 0.27 U	< 0.27 UJ	< 0.47 U	< 0.27 U
Chlorobenzene	5	µg/L	< 0.75 U	< 0.75 U	< 0.034 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U	< 0.75 U	< 0.75 U	< 0.56 U	< 0.75 U	< 0.75 U	< 0.034 U	< 0.75 U
Chloroethane	5	µg/L	< 0.32 U	< 0.32 UJ	< 0.20 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 0.32 U	< 0.32 U	< 0.73 U	< 0.32 U	0.35 J	< 0.20 U	< 0.32 U
Chloroform	7	µg/L	< 0.34 U	< 0.34 U	< 0.11 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 0.34 U	< 0.34 U	< 0.5 U	< 0.34 U	< 0.34 U	< 0.11 U	< 0.34 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.35 U	< 0.35 U	< 0.18 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.36 UJ	< 0.35 U	< 0.35 U	< 0.76 U	< 0.35 U	< 0.35 U	< 0.18 UJ	< 0.35 U
Cis-1,2-Dichloroethylene	5	µg/L	7.1	8	11	6.6	5.5	6.2	0.92 J	4.1	4.8	3.7	3.9	2.3	2.4	3 J	< 0.81 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.36 U	< 0.36 U	< 0.11 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 0.36 U	< 0.36 U	< 0.47 U	< 0.36 U	< 0.36 U	< 0.11 U	< 0.36 U
Cyclohexane	NSL	µg/L	< 0.18 U	< 0.18 U	< 0.087 U	< 0.18 U	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.13 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.087 U	< 0.18 U
Dibromochloromethane	50	µg/L	< 0.32 U	< 0.32 UJ	< 0.17 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 0.32 U	< 0.32 U	< 0.56 U	< 0.32 U	< 0.32 UJ	< 0.17 U	< 0.32 U
Dichlorodifluoromethane	5	µg/L	0.75 J	< 0.68 UJ	< 0.10 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.17 U	< 0.68 U	< 0.68 U	< 0.68 U	0.86 J	< 0.68 UJ	1 J	< 0.68 UJ
Ethylbenzene	5	µg/L	< 0.74 U	< 0.74 U	< 0.13 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 0.74 U	< 0.74 U	< 0.6 U	< 0.74 U	< 0.74 U	< 0.13 U	< 0.74 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U	< 0.79 U	< 0.79 U	< 0.65 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.78 U	NA	NA	NA	NA
Methyl Acetate	NSL	µg/L	< 0.50 U	< 0.50 U	< 0 U	< 0.5 U	< 0.50 U	< 1.3 U	< 1.3 U	< 0.58 UJ	< 1.3 U	< 1.3 U	< 0.8 U	< 0.50 U	< 0.50 U	< 0 U	< 0.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 1.3 U	< 1.3 U	< 0.77 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 1.3 U	< 1.3 U	< 2.7 U	< 1.3 U	< 1.3 U	< 0.77 U	< 1.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 2.1 U	< 2.1 U	< 0.16 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 2.1 U	< 2.1 U	< 4.9 U	< 2.1 U	< 2.1 U	< 0.16 U	< 2.1 U
Methylcyclohexane	NSL	µg/L	< 0.16 U	< 0.16 U	< 1.3 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.16 U	< 0.16 U	< 0.6 U	< 0.16 U	< 0.16 U	< 1.3 U	< 0.16 U
Methylene Chloride	5	µg/L	< 0.44 U	< 0.44 U	< 0.17 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1.0 U	< 0.44 U	< 0.44 U	< 1 U	< 0.44 U	< 0.44 U	< 0.17 U	< 0.44 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.59 U	NA	NA	NA	NA
Styrene	5	µg/L	< 0.73 U	< 0.73 U	< 0.12 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.28 U	< 0.73 U	< 0.73 U	< 0.49 U	< 0.73 U	< 0.73 U	< 0.12 U	< 0.73 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.16 U	< 0.16 U	< 0.031 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.17 U	< 0.16 U	< 0.16 U	< 0.51 U	< 0.16 U	< 0.16 U		

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
NSL = No screening level available.
VOCs = Volatile organic compounds.

Concentrations exceeding the screening level are shaded gray.

Table 1a. Groundwater VOCs Results																
Location ID Sample Name Parent Sample ID Sample Date		MW-04WG MW-04	MW-04WG MW-04	MW-04WG MW-04	MW-04WG MW-4	MW-04WG MW-04	MW-04WG MW-04	MW-04WG 622017-MW-04	MW-16WG MW-16	MW-16WG MW-16	MW-16WG MW-16	MW-16WG MW-16	MW-16WG MW-16	MW-16WG MW-16	MW-16WG MW-16	MW-16WG DUP-02 MW-16 1/23/2017
Analyte		NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)																
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 U	< 0.82 UJ	< 0.82 U	< 0.54 U	< 0.82 U	< 0.82 U	< 0.060 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.21 UJ	< 0.21 U	< 0.65 U	< 0.21 U	< 0.21 U	< 0.12 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U	< 0.31 UJ	< 0.31 U	< 0.58 U	< 0.31 U	< 0.31 U	< 0.76 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U
1,1,2-Trichloroethane	1	µg/L	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.23 UJ	< 0.23 U	< 0.53 U	< 0.23 U	< 0.23 U	< 0.10 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U
1,1-Dichloroethane	5	µg/L	9.6	11	6.4	6.3	6.1 J	7.6	7.2	< 0.38 U	< 0.38 U	< 0.070 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U
1,1-Dichloroethene	5	µg/L	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 0.29 UJ	< 0.29 U	< 0.59 U	< 0.29 U	< 0.29 U	< 0.16 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
1,2,3-Trichlorobenzene	5	µg/L	NA	NA	NA	NA	NA	NA	< 0.5 U	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 0.41 UJ	< 0.41 U	< 0.5 U	< 0.41 U	< 0.41 U	< 0.30 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U	< 0.39 UJ	< 0.39 U	< 0.53 U	< 0.39 UJ	< 0.39 UJ	< 0.18 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 0.73 U	< 0.73 U	< 0.48 U	< 0.73 U	< 0.73 U	< 0.085 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U
1,2-Dichlorobenzene	3	µg/L	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 0.79 UJ	< 0.79 U	< 0.53 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U
1,2-Dichloroethane	0.6	µg/L	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U	< 0.21 UJ	< 0.21 U	< 0.6 U	< 0.21 U	< 0.21 U	< 0.087 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U
1,2-Dichloropropane	1	µg/L	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 0.72 UJ	< 0.72 U	< 0.51 U	< 0.72 U	< 0.72 U	< 0.095 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U
1,3-Dichlorobenzene	3	µg/L	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.78 UJ	< 0.78 U	< 0.54 U	< 0.78 U	< 0.78 U	< 0.13 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U
1,4-Dichlorobenzene	3	µg/L	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 0.84 UJ	< 0.84 U	< 0.51 U	< 0.84 U	< 0.84 U	< 0.11 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U
2-Hexanone	50	µg/L	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 1.2 UJ	< 1.2 U	< 4.8 U	< 1.2 U	< 1.2 U	< 0.44 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
Acetone	50	µg/L	< 3.0 U	< 3.0 U	< 3.0 U	< 2.7 U	< 3.0 UJ	< 3.0 U	< 3.1 U	< 3.0 U	< 3.0 U	< 0.36 U	< 3 U	< 3.0 U	< 3.0 U	< 3.0 U
Benzene	1	µg/L	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 U	< 0.41 UJ	< 0.41 U	< 0.43 U	< 0.41 U	< 0.41 U	< 0.074 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U
Bromochloromethane	5	µg/L	NA	NA	NA	NA	NA	NA	< 0.48 U	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	50	µg/L	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 0.39 UJ	< 0.39 U	< 0.45 U	< 0.39 U	< 0.39 U	< 0.063 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U
Bromoform	50	µg/L	< 0.26 U	< 0.26 U	< 0.26 UJ	< 0.29 U	< 0.26 UJ	< 0.26 U	< 0.63 U	< 0.26 UJ	< 0.26 UJ	< 0.49 U	< 0.26 U	< 0.26 U	< 0.26 UJ	< 0.26 UJ
Bromomethane	5	µg/L	< 0.69 U	< 0.69 UJ	< 0.69 U	< 0.35 UJ	< 0.69 UJ	< 0.69 U	< 1.6 U	< 0.69 UJ	< 0.69 UJ	< 0.22 U	< 0.69 U	< 0.69 U	< 0.69 UJ	< 0.69 U
Carbon Disulfide	60	µg/L	< 0.19 U	< 0.19 UJ	< 0.19 U	< 0.22 U	< 0.19 UJ	< 0.19 U	< 1.8 U	< 0.19 U	< 0.19 U	< 0.54 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 U
Carbon Tetrachloride	5	µg/L	< 0.27 UJ	< 0.27 U	< 0.27 U	< 0.18 U	< 0.27 UJ	< 0.27 U	< 0.55 U	< 0.27 U	< 0.27 UJ	< 0.47 U	< 0.27 U	< 0.27 UJ	< 0.27 U	< 0.27 U
Chlorobenzene	5	µg/L	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U	< 0.75 UJ	< 0.75 U	< 0.56 U	< 0.75 U	< 0.75 U	< 0.034 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U
Chloroethane	5	µg/L	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 0.32 UJ	< 0.32 U	< 0.73 U	< 0.36 U	< 0.32 UJ	< 0.20 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U
Chloroform	7	µg/L	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 0.34 UJ	< 0.34 U	< 0.5 U	< 0.34 U	< 0.34 U	< 0.11 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.35 U	< 0.35 U	< 0.35 U	< 0.36 UJ	< 0.35 UJ	< 0.35 U	< 0.76 U	< 0.35 U	< 0.35 U	< 0.18 UJ	< 0.35 U	< 0.35 U	0.38 J	< 0.35 U
Cis-1,2-Dichloroethylene	5	µg/L	1.1	1.5	0.93 J	0.75 J	0.88 J	1.2	1.4	< 0.81 U	< 0.81 U	< 0.15 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 0.36 UJ	< 0.36 U	< 0.47 U	< 0.36 U	< 0.36 U	< 0.11 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
Cyclohexane	NSL	µg/L	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.13 U	< 0.18 UJ	< 0.18 U	< 0.78 U	< 0.18 U	< 0.18 U	< 0.087 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U
Dibromochloromethane	50	µg/L	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 0.32 UJ	< 0.32 U	< 0.56 U	< 0.32 U	< 0.32 UJ	< 0.17 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U
Dichlorodifluoromethane	5	µg/L	< 0.68 UJ	< 0.68 U	< 0.68 UJ	< 0.17 U	< 0.68 UJ	< 0.68 U	< 0.56 U	< 0.68 U	< 0.68 UJ	< 0.10 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ
Ethylbenzene	5	µg/L	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 0.74 UJ	< 0.74 U	< 0.6 U	< 0.74 U	< 0.74 U	< 0.13 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U	< 0.79 UJ	< 0.79 U	< 0.65 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	NA	NA	NA	NA	NA	NA	< 0.78 U	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NSL	µg/L	< 0.50 U	< 1.3 U	< 1.3 U	< 0.58 UJ	< 1.3 UJ	< 1.3 U	< 0.8 U	< 0.50 U	< 0.50 U	< 0 U	< 0.5 U	< 0.50 U	< 1.3 U	< 1.3 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 1.3 UJ	< 1.3 U	< 2.7 U	< 1.3 U	< 1.3 U	< 0.77 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 2.1 UJ	< 2.1 U	< 4.9 U	< 2.1 U	< 2.1 U	< 0.16 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
Methyleyclohexane	NSL	µg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.16 UJ	< 0.16 U	< 0.6 U	< 0.16 U	< 0.16 U	< 1.3 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Methylene Chloride	5	µg/L	< 0.44 U	< 0.44 U	< 0.44 U	< 1.0 U	< 0.44 UJ	< 0.44 U	< 1 U	< 0.44 U	< 0.44 U	< 0.17 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	NA	NA	NA	NA	NA	NA	< 0.59 U	NA	NA	NA	NA	NA	NA	NA
Styrene	5	µg/L	< 0.73 U	< 0.73 U	< 0.73 U	< 0.28 U	< 0.73 UJ	< 0.73 U	< 0.49 U	< 0.73 U	< 0.73 U	< 0.12 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.17 U	< 0.16 UJ	< 0.16 U	< 0.51 U	< 0.16 U	< 0.16 U	< 0.031 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Tetrachloroethylene (PCE)	5	µg/L	< 0.36 U	< 0.36 U	< 0.36 U	< 0.14 U	< 0.36 UJ	< 0.36 U	< 0.56 U	< 0.36 U	< 0.36 U	< 0.38 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
Toluene	5	µg/L	< 0.51 U	< 0.51 U	< 0.51 U	< 0.17 U	< 0.51 UJ	< 0.51 U	< 0.49 U	< 0.51 U	< 0.51 U	< 0.077 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U
Trans-1,2-Dichloroethene	5	µg/L	< 0.90 U	< 0.90 U	< 0.90 U	< 0.23 U	< 0.90 UJ	< 0.90 U	< 0.54 U	< 0.90 U	< 0.90 U	< 0.075 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 0.37 U	< 0.37 U	< 0.37 U	< 0.17 U	< 0.37 UJ	< 0.37 U	< 0.43 U	< 0.37 U	< 0.37 U	< 0.14 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U
Trichloroethylene (TCE)	5	µg/L	< 0.46 U	< 0.46 U	< 0.46 U	< 0.20 U	< 0.46 UJ	< 0.46 U	< 0.53 U	< 0.46 U	< 0.46 U	< 0.080 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U
Trichlorofluoromethane	5	µg/L	< 0.88 U	< 0.88 UJ	< 0.88 U	< 0.21 U	< 0.88 UJ	< 0.88 U	< 0.4 U	< 0.88 U	< 0.88 UJ	< 0.14 U	< 0.88 U	< 0.88 U	< 0.88 UJ	< 0.88 U
Vinyl Chloride	2	µg/L	< 0.90 U	< 0.90 U	< 0.90 U	0.3 J	< 0.90 UJ	< 0.90 U	< 0.52 U	< 0.90 U	< 0.90 U	< 0.12 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U
Xylenes	5	µg/L	< 0.66 U	< 0.66 U	< 0.66 U	< 0.58 U	< 0.66 UJ	< 0.66 U	< 0.59 U	< 0.66 U	< 0.66 U	< 0.065 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
NSL = No screening level available.
VOCs = Volatile organic compounds.
Concentrations exceeding the screening level are shaded gray.

Table 1a. Groundwater VOCs Results																
Location ID Sample Name Parent Sample ID Sample Date		MW-16WG MW-16	MW-16WG MW-16	MW-16WG MW-16	MW-16WG 622017-MW-16	SW-01DWG SW-01D	SW-01DWG DUP-2 SW-01D 4/21/2010	SW-01DWG SW-01D	SW-01DWG SW-01D	SW-01DWG SW-01D	SW-01DWG SW-01D	SW-01DWG SW-01D	SW-01DWG SW-01D	SW-01DWG SW-1D	SW-01DWG SW-01D	SW-01DWG SW-01D
Analyte		NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)																
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.19 U	< 0.82 U	< 0.82 U	< 0.54 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.060 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 U	< 0.82 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.19 U	< 0.21 U	< 0.21 U	< 0.65 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.12 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.21 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.15 U	< 0.31 U	< 0.31 U	< 0.58 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.76 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U	< 0.31 U
1,1,2-Trichloroethane	1	µg/L	< 0.19 U	< 0.23 U	< 0.23 U	< 0.53 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.10 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.23 U
1,1-Dichloroethane	5	µg/L	< 0.24 U	< 0.38 U	< 0.38 U	< 0.57 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.070 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.24 U	< 0.38 U
1,1-Dichloroethene	5	µg/L	< 0.25 U	< 0.29 U	< 0.29 U	< 0.59 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.16 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 0.29 U
1,2,3-Trichlorobenzene	5	µg/L	NA	NA	NA	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 0.20 UJ	< 0.41 U	< 0.41 U	< 0.5 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.30 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 0.41 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.94 U	< 0.39 U	< 0.39 U	< 0.53 U	< 0.39 UJ	< 0.39 UJ	< 0.39 U	< 0.18 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U	< 0.39 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.21 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.085 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 0.73 U
1,2-Dichlorobenzene	3	µg/L	< 0.19 U	< 0.79 U	< 0.79 U	< 0.53 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 0.79 U
1,2-Dichloroethane	0.6	µg/L	< 0.20 U	< 0.21 U	< 0.21 U	< 0.6 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.087 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U	< 0.21 U
1,2-Dichloropropane	1	µg/L	< 0.25 U	< 0.72 U	< 0.72 U	< 0.51 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.095 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 0.72 U
1,3-Dichlorobenzene	3	µg/L	< 0.18 U	< 0.78 U	< 0.78 U	< 0.54 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.13 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.78 U
1,4-Dichlorobenzene	3	µg/L	< 0.17 U	< 0.84 U	< 0.84 U	< 0.51 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.11 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 0.84 U
2-Hexanone	50	µg/L	< 1.3 U	< 1.2 U	< 1.2 U	< 4.8 U	< 1.2 U	< 1.2 U	< 1.2 U	< 0.44 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 1.2 U
Acetone	50	µg/L	5.7 J	< 3.0 U	< 3.0 U	< 3.1 U	< 3.0 U	< 3.0 U	< 3.0 U	< 0.36 U	< 3 U	< 3.0 U	< 3.0 UJ	< 3.0 U	< 2.7 U	< 3.0 U
Benzene	1	µg/L	< 0.20 U	< 0.41 U	< 0.41 U	< 0.43 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.074 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 U	< 0.41 U
Bromochloromethane	5	µg/L	NA	NA	NA	< 0.48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	50	µg/L	< 0.17 U	< 0.39 U	< 0.39 U	< 0.45 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.063 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 0.39 U
Bromoform	50	µg/L	< 0.29 U	< 0.26 U	< 0.26 U	< 0.63 U	< 0.26 UJ	< 0.26 UJ	< 0.26 U	< 0.49 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 UJ	< 0.29 U	< 0.26 U
Bromomethane	5	µg/L	< 0.35 UJ	< 0.69 U	< 0.69 U	< 1.6 U	< 0.69 UJ	< 0.69 UJ	< 0.69 U	< 0.22 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.35 UJ	< 0.69 U
Carbon Disulfide	60	µg/L	< 0.22 U	< 0.19 U	< 0.19 U	< 1.8 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.54 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.22 U	< 0.19 U
Carbon Tetrachloride	5	µg/L	< 0.18 U	< 0.27 U	< 0.27 U	< 0.55 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.47 U	< 0.27 U	< 0.27 UJ	< 0.27 U	< 0.27 U	< 0.18 U	< 0.27 U
Chlorobenzene	5	µg/L	< 0.18 U	< 0.75 U	< 0.75 U	< 0.56 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.034 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U	< 0.75 U
Chloroethane	5	µg/L	< 0.36 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.20 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 0.32 U
Chloroform	7	µg/L	< 0.23 U	< 0.34 U	< 0.34 U	< 0.5 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.11 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 0.34 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.36 UJ	< 0.35 U	< 0.35 U	< 0.76 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.18 UJ	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.36 UJ	< 0.35 U
Cis-1,2-Dichloroethylene	5	µg/L	< 0.21 U	< 0.81 U	< 0.81 U	< 0.51 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.15 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.21 U	< 0.81 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.17 U	< 0.36 U	< 0.36 U	< 0.47 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.11 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 0.36 U
Cyclohexane	NSL	µg/L	< 0.13 U	< 0.18 U	< 0.18 U	< 0.78 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.087 U	< 0.18 U	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.13 U	< 0.18 U
Dibromochloromethane	50	µg/L	< 0.25 U	< 0.32 U	< 0.32 U	< 0.56 U	< 0.32 U	< 0.32 U	< 0.32 UJ	< 0.17 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 0.32 U
Dichlorodifluoromethane	5	µg/L	< 0.17 U	< 0.68 U	< 0.68 U	< 0.56 U	< 0.68 U	< 0.68 U	< 0.68 U	< 0.10 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.17 U	< 0.68 U
Ethylbenzene	5	µg/L	< 0.19 U	< 0.74 U	< 0.74 U	< 0.6 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.13 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 0.74 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.33 U	< 0.79 U	< 0.79 U	< 0.65 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U	< 0.79 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	NA	NA	NA	< 0.78 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NSL	µg/L	< 0.58 UJ	< 1.3 UJ	< 1.3 U	< 0.8 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0 U	< 0.5 U	< 0.50 U	< 1.3 U	< 1.3 U	< 0.58 UJ	< 1.3 UJ
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 2.6 U	< 1.3 U	< 1.3 U	< 2.7 U	< 1.3 U	< 1.3 U	< 1.3 U	< 0.77 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 1.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 0.81 U	< 2.1 U	< 2.1 U	< 4.9 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.16 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 2.1 U
Methyleyclohexane	NSL	µg/L	< 0.090 U	< 0.16 U	< 0.16 U	< 0.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 1.3 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.16 U
Methylene Chloride	5	µg/L	< 1.0 U	< 0.44 U	< 0.44 U	< 1 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.17 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1.0 U	< 0.44 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	NA	NA	NA	< 0.59 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	5	µg/L	< 0.28 U	< 0.73 U	< 0.73 U	< 0.49 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.12 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.28 U	< 0.73 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.17 U	< 0.16 U	< 0.16 U	< 0.51 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.031 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.17 U	< 0.16 U
Tetrachloroethylene (PCE)	5	µg/L	< 0.14 U	< 0.36 U	< 0.36 U	< 0.56 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.38 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.14 U	< 0.36 U
Toluene	5	µg/L	< 0.17 U	< 0.51 U	< 0.51 U	< 0.49 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.077 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.17 U	< 0.51 U
Trans-1,2-Dichloroethene	5	µg/L	< 0.23 U	< 0.90 U	< 0.90 U	< 0.54 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.075 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.23 U	< 0.90 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 0.17 U	< 0.37 U	< 0.37 U	< 0.43 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.14 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.17 U	< 0.37 U
Trichloroethylene (TCE)	5	µg/L	< 0.20 U	< 0.46 U	< 0.46 U	< 0.53 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.080 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.20 U	< 0.46 U
Trichlorofluoromethane	5	µg/L	< 0.21 U	< 0.88 U	< 0.88 U	< 0.4 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.14 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.21 U	< 0.88 U
Vinyl Chloride	2	µg/L	< 0.18 U	< 0.90 U	< 0.90 U	< 0.52 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.12 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.18 U	< 0.90 U
Xylenes	5	µg/L	< 0.58 U	< 0.66 U	< 0.66 U	< 0.59 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.065 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.58 U	< 0.66 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
NSL = No screening level available.
VOCs = Volatile organic compounds.
Concentrations exceeding the screening level are shaded gray.

Table 1a. Groundwater VOCs Results																
Location ID Sample Name Parent Sample ID Sample Date			SW-01DWG 622017-SW-01D	SW-01SWG SW-01S	SW-01SWG SW-01S	SW-01SWG FD-071211 SW-01S 7/12/2011	SW-01SWG SW-01S	SW-01SWG SW-01S	SW-01SWG SW-01S	SW-01SWG SW-01S	SW-01SWG SW-01S	SW-01SWG SW-01S	SW-01SWG SW-01S	SW-01SWG FD-090821 SW-01S 9/8/2021	SW-01SWG 622017-SW-01S	SW-02DWG SW-02D
			9/26/2023	4/21/2010	7/12/2011	7/12/2011	10/17/2012	10/15/2013	10/14/2014	10/6/2015	1/24/2017	12/5/2017	10/22/2019	9/8/2021	9/26/2023	4/22/2010
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)																
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.54 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.060 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.65 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.12 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.58 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.76 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U
1,1,2-Trichloroethane	1	µg/L	< 0.53 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.10 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U
1,1-Dichloroethane	5	µg/L	< 0.57 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.070 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.24 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U
1,1-Dichloroethene	5	µg/L	< 0.59 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.16 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
1,2,3-Trichlorobenzene	5	µg/L	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 0.5 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.30 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.53 U	< 0.39 UJ	< 0.39 U	< 0.39 U	< 0.18 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.48 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.085 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U
1,2-Dichlorobenzene	3	µg/L	< 0.53 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U
1,2-Dichloroethane	0.6	µg/L	< 0.6 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.087 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U
1,2-Dichloropropane	1	µg/L	< 0.51 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.095 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U
1,3-Dichlorobenzene	3	µg/L	< 0.54 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.13 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U
1,4-Dichlorobenzene	3	µg/L	< 0.51 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.11 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U
2-Hexanone	50	µg/L	< 4.8 U	< 1.2 U	< 1.2 U	< 1.2 U	< 0.44 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
Acetone	50	µg/L	< 3.1 U	< 3.0 U	< 3.0 U	< 3.0 U	< 0.36 U	< 3 U	< 3.0 U	< 3.0 U	< 3.0 U	3.5 J	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U
Benzene	1	µg/L	< 0.43 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.074 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U
Bromochloromethane	5	µg/L	< 0.48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	50	µg/L	< 0.45 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.063 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U
Bromoform	50	µg/L	< 0.63 U	< 0.26 UJ	< 0.26 U	< 0.26 U	< 0.49 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.29 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 UJ
Bromomethane	5	µg/L	< 1.6 U	< 0.69 UJ	< 0.69 U	< 0.69 U	< 0.22 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.35 UJ	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 UJ
Carbon Disulfide	60	µg/L	< 1.8 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.54 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.22 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
Carbon Tetrachloride	5	µg/L	< 0.55 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.47 U	< 0.27 U	< 0.27 UJ	< 0.27 U	< 0.27 U	< 0.18 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U
Chlorobenzene	5	µg/L	< 0.56 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.034 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U
Chloroethane	5	µg/L	< 0.73 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.20 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U
Chloroform	7	µg/L	< 0.5 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.11 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.76 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.18 UJ	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.36 UJ	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U
Cis-1,2-Dichloroethylene	5	µg/L	< 0.51 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.15 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.21 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.47 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.11 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
Cyclohexane	NSL	µg/L	< 0.78 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.087 U	< 0.18 U	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.13 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U
Dibromochloromethane	50	µg/L	< 0.56 U	< 0.32 U	< 0.32 UJ	< 0.32 UJ	< 0.17 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U
Dichlorodifluoromethane	5	µg/L	< 0.56 U	< 0.68 U	< 0.68 U	< 0.68 U	< 0.10 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.17 U	< 0.68 U	< 0.68 U	< 0.68 U	< 0.68 U
Ethylbenzene	5	µg/L	< 0.6 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.13 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.65 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	< 0.78 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NSL	µg/L	< 0.8 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0 U	< 0.5 U	< 0.50 U	< 1.3 U	< 1.3 U	< 0.58 UJ	< 1.3 U	< 1.3 U	< 1.3 U	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 2.7 U	< 1.3 U	< 1.3 U	< 1.3 U	< 0.77 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 4.9 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.16 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
Methyleyclohexane	NSL	µg/L	< 0.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 1.3 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Methylene Chloride	5	µg/L	< 1 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.17 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1.0 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	< 0.59 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	5	µg/L	< 0.49 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.12 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.28 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.51 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.031 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.17 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Tetrachloroethylene (PCE)	5	µg/L	< 0.56 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.38 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.14 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
Toluene	5	µg/L	< 0.49 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.077 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.17 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U
Trans-1,2-Dichloroethene	5	µg/L	< 0.54 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.075 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.23 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 0.43 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.14 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.17 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U
Trichloroethylene (TCE)	5	µg/L	< 0.53 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.080 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.20 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U
Trichlorofluoromethane	5	µg/L	< 0.4 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.14 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.21 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.88 U
Vinyl Chloride	2	µg/L	< 0.52 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.12 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.18 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U
Xylenes	5	µg/L	< 0.59 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.065 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.58 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
NSL = No screening level available.
VOCs = Volatile organic compounds.

Concentrations exceeding the screening level are shaded gray.

Table 1a. Groundwater VOCs Results																
Location ID Sample Name Parent Sample ID Sample Date		SW-02DWG SW-02D	SW-02DWG SW-02D	SW-02DWG FD-101712 SW-02D	SW-02DWG SW-02D	SW-02DWG FD-101513 SW-02D	SW-02DWG SW-02D	SW-02DWG FIELD DUP GW SW-02D	SW-02DWG SW-02D	SW-02DWG SW-02D	SW-02DWG SW-2D	SW-02DWG SW-02D	SW-02DWG DUP-GW-01 SW-02D	SW-02DWG SW-02D	SW-02DWG 622017-SW-02D	SW-02SWG SW-02S
Analyte		NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)																
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.82 U	< 0.060 U	< 0.060 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.54 U	1.9
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.21 U	< 0.12 U	< 0.12 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.65 U	< 0.21 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.31 U	< 0.76 U	< 0.76 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.58 U	< 0.31 U
1,1,2-Trichloroethane	1	µg/L	< 0.23 U	< 0.10 U	< 0.10 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.53 U	< 0.23 U
1,1-Dichloroethane	5	µg/L	< 0.38 U	< 0.070 U	< 0.070 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.24 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.57 U	< 0.38 U
1,1-Dichloroethene	5	µg/L	< 0.29 U	< 0.16 U	< 0.16 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.59 U	< 0.29 U
1,2,3-Trichlorobenzene	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	NA
1,2,4-Trichlorobenzene	5	µg/L	< 0.41 U	< 0.30 U	< 0.30 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 0.41 U	< 0.41 U	< 0.41 U	< 0.5 U	< 0.41 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.39 U	< 0.18 U	< 0.18 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.53 U	< 0.39 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.73 U	< 0.085 U	< 0.085 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.48 U	< 0.73 U
1,2-Dichlorobenzene	3	µg/L	< 0.79 U	< 0.11 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.53 U	< 0.79 U
1,2-Dichloroethane	0.6	µg/L	< 0.21 U	< 0.087 U	< 0.087 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.6 U	< 0.21 U
1,2-Dichloropropane	1	µg/L	< 0.72 U	< 0.095 U	< 0.095 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.51 U	< 0.72 U
1,3-Dichlorobenzene	3	µg/L	< 0.78 U	< 0.13 U	< 0.13 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.54 U	< 0.78 U
1,4-Dichlorobenzene	3	µg/L	< 0.84 U	< 0.11 U	< 0.11 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.51 U	< 0.84 U
2-Hexanone	50	µg/L	< 1.2 U	< 0.44 U	< 0.44 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 1.2 U	< 1.2 U	< 1.2 U	< 4.8 U	< 1.2 U
Acetone	50	µg/L	< 3.0 U	< 0.36 U	< 0.36 U	< 3 U	< 3 U	< 3.0 U	< 3.0 U	< 3.0 UJ	4 J	< 3.0 U	< 3.0 U	< 3.0 U	< 3.1 U	< 3.0 U
Benzene	1	µg/L	< 0.41 U	< 0.074 U	< 0.074 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.43 U	< 0.41 U
Bromochloromethane	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48 U	NA
Bromodichloromethane	50	µg/L	< 0.39 U	< 0.063 U	< 0.063 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.45 U	< 0.39 U
Bromoform	50	µg/L	< 0.26 U	< 0.49 U	< 0.49 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 UJ	< 0.26 U	< 0.26 U	< 0.26 U	< 0.63 U	< 0.26 UJ
Bromomethane	5	µg/L	< 0.69 U	< 0.22 U	< 0.22 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.35 UJ	< 0.69 U	< 0.69 U	< 0.69 U	< 1.6 U	< 0.69 UJ
Carbon Disulfide	60	µg/L	< 0.19 U	< 0.54 U	< 0.54 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.22 U	< 0.19 U	< 0.19 U	< 0.19 U	< 1.8 U	< 0.19 U
Carbon Tetrachloride	5	µg/L	< 0.27 U	< 0.47 U	< 0.47 U	< 0.27 U	< 0.27 U	< 0.27 UJ	< 0.27 UJ	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.55 U	< 0.27 U
Chlorobenzene	5	µg/L	< 0.75 U	< 0.034 U	< 0.034 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.56 U	< 0.75 U
Chloroethane	5	µg/L	< 0.32 U	< 0.20 U	< 0.20 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.73 U	< 0.32 U
Chloroform	7	µg/L	< 0.34 U	< 0.11 U	< 0.11 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.5 U	< 0.34 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.35 U	< 0.18 UJ	< 0.18 UJ	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.76 U	< 0.35 U
Cis-1,2-Dichloroethylene	5	µg/L	< 0.81 U	< 0.15 U	< 0.15 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.21 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.51 U	< 0.81 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.36 U	< 0.11 U	< 0.11 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.47 U	< 0.36 U
Cyclohexane	NSL	µg/L	< 0.18 U	< 0.087 U	< 0.087 U	< 0.18 U	< 0.18 U	< 0.18 UJ	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.78 U	< 0.18 U
Dibromochloromethane	50	µg/L	< 0.32 UJ	< 0.17 U	< 0.17 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.56 U	< 0.32 U
Dichlorodifluoromethane	5	µg/L	< 0.68 U	< 0.10 UJ	< 0.10 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.17 U	< 0.68 U	< 0.68 U	< 0.68 U	< 0.56 U	< 0.68 U
Ethylbenzene	5	µg/L	< 0.74 U	< 0.13 U	< 0.13 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.6 U	< 0.74 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.79 U	< 0.11 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.65 U	< 0.79 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.78 U	NA
Methyl Acetate	NSL	µg/L	< 0.50 U	< 0 U	< 0 U	< 0.5 U	< 0.5 U	< 0.50 U	< 0.50 U	< 1.3 U	< 1.3 U	< 0.58 UJ	< 1.3 U	< 1.3 UJ	< 1.3 U	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 1.3 U	< 0.77 U	< 0.77 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 1.3 U	< 1.3 U	< 2.7 U	< 1.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 2.1 U	< 0.16 U	< 0.16 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 2.1 U	< 2.1 U	< 2.1 U	< 4.9 U	< 2.1 U
Methyleyclohexane	NSL	µg/L	< 0.16 U	< 1.3 U	< 1.3 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.6 U	< 0.16 U
Methylene Chloride	5	µg/L	< 0.44 U	< 0.17 U	< 0.17 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1.0 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1 U	< 0.44 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.59 U	NA
Styrene	5	µg/L	< 0.73 U	< 0.12 U	< 0.12 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.28 U	< 0.73 U	< 0.73 U	< 0.49 U	< 0.73 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.16 U	< 0.031 U	< 0.031 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.17 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.51 U	< 0.16 U
Tetrachloroethylene (PCE)	5	µg/L	< 0.36 U	< 0.38 U	< 0.38 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.14 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.56 U	< 0.36 U
Toluene	5	µg/L	< 0.51 U	< 0.077 U	< 0.077 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.17 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.49 U	< 0.51 U
Trans-1,2-Dichloroethene	5	µg/L	< 0.90 U	< 0.075 U	< 0.075 U	< 0.9 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.23 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.54 U	< 0.90 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 0.37 U	< 0.14 U	< 0.14 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.17 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.43 U	< 0.37 U
Trichloroethylene (TCE)	5	µg/L	< 0.46 U	< 0.080 U	< 0.080 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.20 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.53 U	< 0.46 U
Trichlorofluoromethane	5	µg/L	< 0.88 U	< 0.14 U	< 0.14 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.21 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.4 U	< 0.88 U
Vinyl Chloride	2	µg/L	< 0.90 U	< 0.12 U	< 0.12 U	< 0.9 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.18 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.52 U	< 0.90 U
Xylenes	5	µg/L	< 0.66 U	< 0.065 U	< 0.065 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.58 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.59 U	< 0.66 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
NSL = No screening level available.
VOCs = Volatile organic compounds.
Concentrations exceeding the screening level are shaded gray.

Table 1a. Groundwater VOCs Results																
Location ID Sample Name Parent Sample ID Sample Date		SW-02SWG SW-02S	SW-02SWG SW-02S	SW-02SWG SW-02S	SW-02SWG SW-02S	SW-02SWG SW-02S	SW-02SWG FD-100615 SW-02S 10/6/2015	SW-02SWG SW-02S	SW-02SWG SW-2S	SW-02SWG SW-02S	SW-02SWG SW-02S	SW-02SWG 622017-SW-02S	SW-02SWG 622017-FD-092623 622017-SW-02S 9/26/2023	SW-03SWG SW-03S	SW-03SWG SW-03S	SW-03SWG SW-03S
		7/12/2011	10/17/2012	10/15/2013	10/14/2014	10/6/2015	10/6/2015	1/25/2017	12/6/2017	10/22/2019	9/8/2021	9/26/2023	9/26/2023	4/22/2010	7/12/2011	10/17/2012
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)																
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.82 U	1 J	1	1.6	0.91 J	< 0.82 U	1.3	1.1	< 0.82 U	< 0.54 U	< 0.54 U	< 0.82 U	< 0.82 U	< 0.060 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.21 U	< 0.12 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.65 U	< 0.21 U	< 0.21 U	< 0.12 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.31 U	< 0.76 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.58 U	< 0.58 U	< 0.31 U	< 0.76 U
1,1,2-Trichloroethane	1	µg/L	< 0.23 U	< 0.10 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.53 U	< 0.53 U	< 0.23 U	< 0.10 U
1,1-Dichloroethane	5	µg/L	< 0.38 U	< 0.070 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.24 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.57 U	< 0.57 U	< 0.38 U	< 0.070 U
1,1-Dichloroethene	5	µg/L	< 0.29 U	< 0.16 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.59 U	< 0.59 U	< 0.29 U	< 0.16 U
1,2,3-Trichlorobenzene	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5 U	< 0.5 U	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 0.41 U	< 0.30 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 0.41 U	< 0.41 U	< 0.41 U	< 0.5 U	< 0.5 U	< 0.41 U	< 0.30 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.39 U	< 0.18 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.53 U	< 0.53 U	< 0.39 UJ	< 0.18 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.73 U	< 0.085 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.48 U	< 0.73 U	< 0.73 U	< 0.085 U
1,2-Dichlorobenzene	3	µg/L	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.53 U	< 0.53 U	< 0.79 U	< 0.11 U
1,2-Dichloroethane	0.6	µg/L	< 0.21 U	< 0.087 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.6 U	< 0.6 U	< 0.21 U	< 0.087 U
1,2-Dichloropropane	1	µg/L	< 0.72 U	< 0.095 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.51 U	< 0.51 U	< 0.72 U	< 0.095 U
1,3-Dichlorobenzene	3	µg/L	< 0.78 U	< 0.13 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.54 U	< 0.54 U	< 0.78 U	< 0.13 U
1,4-Dichlorobenzene	3	µg/L	< 0.84 U	< 0.11 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.51 U	< 0.51 U	< 0.84 U	< 0.11 U
2-Hexanone	50	µg/L	< 1.2 U	< 0.44 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 1.2 U	< 1.2 U	< 1.2 U	< 4.8 U	< 4.8 U	< 1.2 U	< 0.44 U
Acetone	50	µg/L	< 3.0 U	< 0.36 U	< 3 U	< 3.0 U	< 3.0 UJ	< 3.0 U	3.5 J	< 3.0 U	< 3.0 U	< 3.1 U	< 3.1 U	< 3.0 U	< 3.0 U	< 0.36 U
Benzene	1	µg/L	< 0.41 U	< 0.074 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.43 U	< 0.43 U	< 0.41 U	< 0.074 U
Bromochloromethane	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48 U	< 0.48 U	NA	NA
Bromodichloromethane	50	µg/L	< 0.39 U	< 0.063 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.45 U	< 0.45 U	< 0.39 U	< 0.063 U
Bromoform	50	µg/L	< 0.26 U	< 0.49 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 UJ	< 0.29 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.63 U	< 0.63 U	< 0.26 UJ	< 0.49 U
Bromomethane	5	µg/L	< 0.69 U	< 0.22 U	< 0.69 U	< 0.69 U	< 0.69 UJ	< 0.69 U	< 0.35 UJ	< 0.69 U	< 0.69 U	< 0.69 U	< 1.6 U	< 1.6 U	< 0.69 UJ	< 0.22 U
Carbon Disulfide	60	µg/L	< 0.19 U	< 0.54 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 U	< 0.22 U	< 0.19 U	< 0.19 U	< 0.19 U	< 1.8 U	< 1.8 U	< 0.19 U	< 0.54 U
Carbon Tetrachloride	5	µg/L	< 0.27 U	< 0.47 U	< 0.27 U	< 0.27 UJ	< 0.27 U	< 0.27 U	< 0.18 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.55 U	< 0.55 U	< 0.27 U	< 0.47 U
Chlorobenzene	5	µg/L	< 0.75 U	< 0.034 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.56 U	< 0.56 U	< 0.75 U	< 0.034 U
Chloroethane	5	µg/L	< 0.32 U	< 0.20 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.73 U	< 0.73 U	< 0.32 U	< 0.20 U
Chloroform	7	µg/L	< 0.34 U	< 0.11 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.5 U	< 0.5 U	< 0.34 U	< 0.11 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.35 U	< 0.18 UJ	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.36 UJ	< 0.35 U	< 0.35 U	< 0.35 U	< 0.76 U	< 0.76 U	< 0.35 U	< 0.18 UJ
Cis-1,2-Dichloroethylene	5	µg/L	< 0.81 U	< 0.15 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.21 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.51 U	< 0.51 U	< 0.81 U	< 0.15 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.36 U	< 0.11 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.47 U	< 0.47 U	< 0.36 U	< 0.11 U
Cyclohexane	NSL	µg/L	< 0.18 U	< 0.087 U	< 0.18 U	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.13 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.087 U
Dibromochloromethane	50	µg/L	< 0.32 UJ	< 0.17 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.56 U	< 0.56 U	< 0.32 U	< 0.17 U
Dichlorodifluoromethane	5	µg/L	< 0.68 U	< 0.10 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.17 U	< 0.68 U	< 0.68 U	< 0.68 U	< 0.56 U	< 0.56 U	< 0.68 U	< 0.10 UJ
Ethylbenzene	5	µg/L	< 0.74 U	< 0.13 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.6 U	< 0.6 U	< 0.74 U	< 0.13 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.65 U	< 0.65 U	< 0.79 U	< 0.11 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.78 U	< 0.78 U	NA	NA
Methyl Acetate	NSL	µg/L	< 0.50 U	< 0 U	< 0.5 U	< 0.50 U	< 1.3 U	< 1.3 U	< 0.58 UJ	< 1.3 U	< 1.3 U	< 1.3 U	< 0.8 U	< 0.8 U	< 0.50 U	< 0 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 1.3 U	< 0.77 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.7 U	< 2.7 U	< 1.3 U	< 0.77 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 2.1 U	< 0.16 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 2.1 U	< 2.1 U	< 2.1 U	< 4.9 U	< 4.9 U	< 2.1 U	< 0.16 U
Methyleyclohexane	NSL	µg/L	< 0.16 U	< 1.3 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.6 U	< 0.6 U	< 0.16 U	< 1.3 U
Methylene Chloride	5	µg/L	< 0.44 U	< 0.17 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1.0 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1 U	< 1 U	< 0.44 U	< 0.17 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.59 U	< 0.59 U	NA	NA
Styrene	5	µg/L	< 0.73 U	< 0.12 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.28 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.49 U	< 0.49 U	< 0.73 U	< 0.12 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.16 U	< 0.031 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.17 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.51 U	< 0.51 U	< 0.16 U	< 0.031 U
Tetrachloroethylene (PCE)	5	µg/L	< 0.36 U	< 0.38 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.14 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.56 U	< 0.56 U	< 0.36 U	< 0.38 U
Toluene	5	µg/L	< 0.51 U	< 0.077 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.17 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.49 U	< 0.49 U	< 0.51 U	< 0.077 U
Trans-1,2-Dichloroethene	5	µg/L	< 0.90 U	< 0.075 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.23 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.54 U	< 0.54 U	< 0.90 U	< 0.075 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 0.37 U	< 0.14 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.17 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.43 U	< 0.43 U	< 0.37 U	< 0.14 U
Trichloroethylene (TCE)	5	µg/L	< 0.46 U	< 0.080 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.20 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.53 U	< 0.53 U	< 0.46 U	< 0.080 U
Trichlorofluoromethane	5	µg/L	< 0.88 U	< 0.14 U	< 0.88 U	< 0.88 U	< 0.88 UJ	< 0.88 U	< 0.21 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.4 U	< 0.4 U	< 0.88 U	< 0.14 U
Vinyl Chloride	2	µg/L	< 0.90 U	< 0.12 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.18 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.52 U	< 0.52 U	< 0.90 U	< 0.12 U
Xylenes	5	µg/L	< 0.66 U	< 0.065 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.58 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.59 U	< 0.59 U	< 0.66 U	< 0.065 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
NSL = No screening level available.
VOCs = Volatile organic compounds.

Concentrations exceeding the screening level are shaded gray.

Table 1a. Groundwater VOCs Results																	
Location ID Sample Name Parent Sample ID Sample Date			SW-03SWG SW-03S	SW-03SWG SW-03S	SW-03SWG SW-03S	SW-03SWG SW-3S	SW-03SWG SW-03S	SW-03SWG SW-03S	SW-03SWG 622017-SW-03S	SW-04DWG SW-04D	SW-04DWG SW-04D	SW-04DWG SW-04D	SW-04DWG SW-04D	SW-04DWG SW-04D	SW-04DWG SW-04D	SW-04DWG SW-04D	SW-04DWG SW-4D
			10/15/2013	10/14/2014	10/6/2015	12/6/2017	10/22/2019	9/8/2021	9/26/2023	4/21/2010	7/13/2011	10/17/2012	10/16/2013	10/14/2014	10/7/2015	1/23/2017	12/5/2017
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)																	
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 U	< 0.82 U	< 0.82 U	< 0.54 U	< 0.82 U	< 0.82 U	< 0.060 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.21 U	< 0.21 U	< 0.65 U	< 0.21 U	< 0.21 U	< 0.12 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U	< 0.31 U	< 0.31 U	< 0.58 U	< 0.31 U	< 0.31 U	< 0.76 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U
1,1,2-Trichloroethane	1	µg/L	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.23 U	< 0.23 U	< 0.10 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U
1,1-Dichloroethane	5	µg/L	< 0.38 U	< 0.38 U	< 0.38 U	< 0.24 U	< 0.38 U	< 0.38 U	< 0.57 U	< 0.38 U	< 0.38 U	< 0.070 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.24 U
1,1-Dichloroethene	5	µg/L	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 0.29 U	< 0.29 U	< 0.59 U	< 0.29 U	< 0.29 U	< 0.16 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U
1,2,3-Trichlorobenzene	5	µg/L	NA	NA	NA	NA	NA	NA	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 0.41 U	< 0.41 U	< 0.5 U	< 0.41 U	< 0.41 U	< 0.30 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U	< 0.39 U	< 0.39 U	< 0.53 U	< 0.39 UJ	< 0.39 UJ	< 0.18 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 0.73 U	< 0.73 U	< 0.48 U	< 0.73 U	< 0.73 U	< 0.085 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U
1,2-Dichlorobenzene	3	µg/L	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 0.79 U	< 0.79 U	< 0.53 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U
1,2-Dichloroethane	0.6	µg/L	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U	< 0.21 U	< 0.21 U	< 0.6 U	< 0.20 U	< 0.21 U	< 0.087 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U
1,2-Dichloropropane	1	µg/L	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 0.72 U	< 0.72 U	< 0.51 U	< 0.72 U	< 0.72 U	< 0.095 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U
1,3-Dichlorobenzene	3	µg/L	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.78 U	< 0.78 U	< 0.54 U	< 0.78 U	< 0.78 U	< 0.13 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U
1,4-Dichlorobenzene	3	µg/L	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 0.84 U	< 0.84 U	< 0.51 U	< 0.84 U	< 0.84 U	< 0.11 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U
2-Hexanone	50	µg/L	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 1.2 U	< 1.2 U	< 4.8 U	< 1.2 U	< 1.2 U	< 0.44 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U
Acetone	50	µg/L	< 3 U	< 3.0 U	< 3.0 UJ	4.4 J	< 3.0 U	< 3.0 U	< 3.1 U	< 3.0 U	< 3.0 U	< 0.36 U	< 3 U	< 3.0 U	< 3.0 U	< 3.0 U	4.3 J
Benzene	1	µg/L	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 U	< 0.41 U	< 0.41 U	< 0.43 U	< 0.41 U	< 0.41 U	< 0.074 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 U
Bromochloromethane	5	µg/L	NA	NA	NA	NA	NA	NA	< 0.48 U	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	50	µg/L	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 0.39 U	< 0.39 U	< 0.45 U	< 0.39 U	< 0.39 U	< 0.063 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U
Bromoform	50	µg/L	< 0.26 U	< 0.26 U	< 0.26 U	< 0.29 U	< 0.26 U	< 0.26 U	< 0.63 U	< 0.26 UJ	< 0.26 UJ	< 0.49 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 UJ	< 0.29 U
Bromomethane	5	µg/L	< 0.69 U	< 0.69 U	< 0.69 U	< 0.35 UJ	< 0.69 U	< 0.69 U	< 1.6 U	< 0.69 UJ	< 0.69 UJ	< 0.22 UJ	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.35 UJ
Carbon Disulfide	60	µg/L	< 0.19 U	< 0.19 U	< 0.19 U	< 0.22 U	< 0.19 U	< 0.19 U	< 1.8 U	< 0.19 U	< 0.19 U	< 0.54 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 U	< 0.22 U
Carbon Tetrachloride	5	µg/L	< 0.27 U	< 0.27 UJ	< 0.27 U	< 0.18 U	< 0.27 U	< 0.27 U	< 0.55 U	< 0.27 U	< 0.27 UJ	< 0.47 UJ	< 0.27 U	< 0.27 UJ	< 0.27 U	< 0.27 U	< 0.18 U
Chlorobenzene	5	µg/L	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U	< 0.75 U	< 0.75 U	< 0.56 U	< 0.75 U	< 0.75 U	< 0.034 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U
Chloroethane	5	µg/L	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 0.32 U	< 0.32 U	< 0.73 U	< 0.32 U	< 0.32 UJ	< 0.20 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U
Chloroform	7	µg/L	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 0.34 U	< 0.34 U	< 0.5 U	< 0.34 U	< 0.34 U	< 0.11 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.35 U	< 0.35 U	< 0.35 U	< 0.36 UJ	< 0.35 U	< 0.35 U	< 0.76 U	< 0.35 U	< 0.35 U	< 0.18 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.36 UJ
Cis-1,2-Dichloroethylene	5	µg/L	< 0.81 U	< 0.81 U	< 0.81 U	< 0.21 U	< 0.81 U	< 0.81 U	< 0.51 U	< 0.81 U	< 0.81 U	< 0.15 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.21 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 0.36 U	< 0.36 U	< 0.47 U	< 0.36 U	< 0.36 U	< 0.11 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U
Cyclohexane	NSL	µg/L	< 0.18 U	< 0.18 UJ	< 0.18 U	< 0.13 U	< 0.18 U	< 0.18 U	< 0.78 U	< 0.18 U	< 0.18 U	< 0.087 U	< 0.18 U	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.13 U
Dibromochloromethane	50	µg/L	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 0.32 U	< 0.32 U	< 0.56 U	< 0.32 U	< 0.32 UJ	< 0.17 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U
Dichlorodifluoromethane	5	µg/L	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.17 U	< 0.68 U	< 0.68 U	< 0.56 U	< 0.68 U	< 0.68 UJ	< 0.10 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.17 U
Ethylbenzene	5	µg/L	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 0.74 U	< 0.74 U	< 0.6 U	< 0.74 U	< 0.74 U	< 0.13 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U	< 0.79 U	< 0.79 U	< 0.65 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	NA	NA	NA	NA	NA	NA	< 0.78 U	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NSL	µg/L	< 0.5 U	< 0.50 U	< 1.3 U	< 0.58 UJ	< 1.3 U	< 1.3 U	< 0.8 U	< 0.50 U	< 0.50 U	< 0 U	< 0.5 U	< 0.50 U	< 1.3 U	< 1.3 U	< 0.58 UJ
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 1.3 U	< 1.3 U	< 2.7 U	< 1.3 U	< 1.3 U	< 0.77 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 2.1 U	< 2.1 U	< 4.9 U	< 2.1 U	< 2.1 U	< 0.16 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U
Methylcyclohexane	NSL	µg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.16 U										

Table 1a. Groundwater VOCs Results																	
Location ID Sample Name Parent Sample ID Sample Date			SW-04DWG DUP-1 SW-4D 12/5/2017	SW-04DWG SW-04D 10/21/2019	SW-04DWG SW-04D 9/7/2021	SW-04DWG 622017-SW-04D 9/25/2023	SW-04SWG SW-04S 4/21/2010	SW-04SWG SW-04S 7/13/2011	SW-04SWG SW-04S 10/17/2012	SW-04SWG SW-04S 10/16/2013	SW-04SWG SW-04S 10/14/2014	SW-04SWG SW-04S 10/7/2015	SW-04SWG SW-04S 1/23/2017	SW-04SWG SW-4S 12/5/2017	SW-04SWG SW-04S 10/21/2019	SW-04SWG SW-04S 9/7/2021	SW-04SWG 622017-SW-04S 9/25/2023
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)																	
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.19 UJ	< 0.82 U	< 0.82 U	< 0.54 U	< 0.82 U	< 0.82 U	< 0.060 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 U	< 0.82 U	< 0.82 U	< 0.54 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.19 U	< 0.21 U	< 0.21 U	< 0.65 U	< 0.21 U	< 0.21 U	< 0.12 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.21 U	< 0.21 U	< 0.65 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.15 UJ	< 0.31 U	< 0.31 U	< 0.58 U	< 0.31 U	< 0.31 U	< 0.76 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U	< 0.31 U	< 0.31 U	< 0.58 U
1,1,2-Trichloroethane	1	µg/L	< 0.19 U	< 0.23 U	< 0.23 U	< 0.53 U	< 0.23 U	< 0.23 U	< 0.10 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.23 U	< 0.23 U	< 0.53 U
1,1-Dichloroethane	5	µg/L	< 0.24 U	< 0.38 U	< 0.38 U	< 0.57 U	< 0.38 U	< 0.38 U	< 0.070 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.24 U	< 0.38 U	< 0.38 U	< 0.57 U
1,1-Dichloroethene	5	µg/L	< 0.25 U	< 0.29 U	< 0.29 U	< 0.59 U	< 0.29 U	< 0.29 U	< 0.16 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 0.29 U	< 0.29 U	< 0.59 U
1,2,3-Trichlorobenzene	5	µg/L	NA	NA	NA	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5 U
1,2,4-Trichlorobenzene	5	µg/L	< 0.20 UJ	< 0.41 U	< 0.41 U	< 0.5 U	< 0.41 U	< 0.41 U	< 0.30 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 0.41 U	< 0.41 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.94 UJ	< 0.39 U	< 0.39 U	< 0.53 U	< 0.39 U	< 0.39 U	< 0.18 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U	< 0.39 U	< 0.39 U	< 0.53 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.21 U	< 0.73 U	< 0.73 U	< 0.48 U	< 0.73 U	< 0.73 U	< 0.085 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 0.73 U	< 0.73 U	< 0.48 U
1,2-Dichlorobenzene	3	µg/L	< 0.19 U	< 0.79 U	< 0.79 U	< 0.53 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 0.79 U	< 0.79 U	< 0.53 U
1,2-Dichloroethane	0.6	µg/L	< 0.20 U	< 0.21 U	< 0.21 U	< 0.6 U	< 0.21 U	< 0.21 U	< 0.087 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U	< 0.21 U	< 0.21 U	< 0.6 U
1,2-Dichloropropane	1	µg/L	< 0.25 U	< 0.72 U	< 0.72 U	< 0.51 U	< 0.72 U	< 0.72 U	< 0.095 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 0.72 U	< 0.72 U	< 0.51 U
1,3-Dichlorobenzene	3	µg/L	< 0.18 U	< 0.78 U	< 0.78 U	< 0.54 U	< 0.78 U	< 0.78 U	< 0.13 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.78 U	< 0.78 U	< 0.54 U
1,4-Dichlorobenzene	3	µg/L	< 0.17 U	< 0.84 U	< 0.84 U	< 0.51 U	< 0.84 U	< 0.84 U	< 0.11 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 0.84 U	< 0.84 U	< 0.51 U
2-Hexanone	50	µg/L	< 1.3 U	< 1.2 U	< 1.2 U	< 4.8 U	< 1.2 U	< 1.2 U	< 0.44 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 1.2 U	< 1.2 U	< 4.8 U
Acetone	50	µg/L	4.7 J	< 3.0 U	< 3.0 U	< 3.1 U	< 3.0 U	< 3.0 U	< 0.36 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	3.8 J	< 3.0 U	< 3.0 U	< 3.1 U
Benzene	1	µg/L	< 0.20 U	< 0.41 U	< 0.41 U	< 0.43 U	< 0.41 U	< 0.41 U	< 0.074 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 U	< 0.41 U	< 0.41 U	< 0.43 U
Bromochloromethane	5	µg/L	NA	NA	NA	< 0.48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48 U
Bromodichloromethane	50	µg/L	< 0.17 U	< 0.39 U	< 0.39 U	< 0.45 U	< 0.39 U	< 0.39 U	< 0.063 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 0.39 U	< 0.39 U	< 0.45 U
Bromoform	50	µg/L	< 0.29 U	< 0.26 U	< 0.26 U	< 0.63 U	< 0.26 UJ	< 0.26 U	< 0.49 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.29 U	< 0.26 U	< 0.26 U	< 0.63 U
Bromomethane	5	µg/L	< 0.35 U	< 0.69 U	< 0.69 U	< 1.6 U	< 0.69 UJ	< 0.69 U	< 0.22 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 UJ	< 0.69 U	< 0.69 U	< 0.69 U	< 1.6 U
Carbon Disulfide	60	µg/L	< 0.22 U	< 0.19 U	< 0.19 U	< 1.8 U	< 0.19 U	< 0.19 U	< 0.54 U	< 0.19 U	< 0.22 U	< 0.19 UJ	< 0.19 U	< 0.22 U	< 0.19 U	< 0.19 U	< 1.8 U
Carbon Tetrachloride	5	µg/L	< 0.18 U	< 0.27 U	< 0.27 U	< 0.55 U	< 0.27 U	< 0.27 U	< 0.47 U	< 0.27 U	< 0.27 UJ	< 0.27 U	< 0.27 U	< 0.18 U	< 0.27 U	< 0.27 U	< 0.55 U
Chlorobenzene	5	µg/L	< 0.18 U	< 0.75 U	< 0.75 U	< 0.56 U	< 0.75 U	< 0.75 U	< 0.034 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U	< 0.75 U	< 0.75 U	< 0.56 U
Chloroethane	5	µg/L	< 0.36 U	< 0.32 U	< 0.32 U	< 0.73 U	< 0.32 U	0.48 J	< 0.20 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 0.32 U	< 0.32 U	< 0.73 U
Chloroform	7	µg/L	< 0.23 U	< 0.34 U	< 0.34 U	< 0.5 U	< 0.34 U	< 0.34 U	< 0.11 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 0.34 U	< 0.34 U	< 0.5 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.36 U	< 0.35 U	< 0.35 U	< 0.76 U	< 0.35 U	< 0.35 U	< 0.18 UJ	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.36 UJ	< 0.35 U	< 0.35 U	< 0.76 U
Cis-1,2-Dichloroethylene	5	µg/L	< 0.21 U	< 0.81 U	< 0.81 U	< 0.51 U	< 0.81 U	< 0.81 U	< 0.15 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.21 U	< 0.81 U	< 0.81 U	< 0.51 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.17 U	< 0.36 U	< 0.36 U	< 0.47 U	< 0.36 U	< 0.36 U	< 0.11 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 0.36 U	< 0.36 U	< 0.47 U
Cyclohexane	NSL	µg/L	< 0.13 U	< 0.18 U	< 0.18 U	< 0.78 U	< 0.18 U	< 0.18 U	< 0.087 U	< 0.18 U	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.13 U	< 0.18 U	< 0.18 U	< 0.78 U
Dibromochloromethane	50	µg/L	< 0.25 U	< 0.32 U	< 0.32 U	< 0.56 U	< 0.32 U	< 0.32 UJ	< 0.17 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 0.32 U	< 0.32 U	< 0.56 U
Dichlorodifluoromethane	5	µg/L	< 0.17 U	< 0.68 U	< 0.68 U	< 0.56 U	< 0.68 U	< 0.68 U	< 0.10 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 U	< 0.68 U	< 0.17 U	< 0.68 U	< 0.68 U	< 0.56 U
Ethylbenzene	5	µg/L	< 0.19 U	< 0.74 U	< 0.74 U	< 0.6 U	< 0.74 U	< 0.74 U	< 0.13 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 0.74 U	< 0.74 U	< 0.6 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.33 U	< 0.79 U	< 0.79 U	< 0.65 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U	< 0.79 U	< 0.79 U	< 0.65 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	NA	NA	NA	< 0.78 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.78 U
Methyl Acetate	NSL	µg/L	< 0.58 UJ	< 1.3 UJ	< 1.3 U	< 0.8 U	< 0.50 U	< 0.50 U	< 0 U	< 0.5 U	< 0.50 U	< 1.3 U	< 1.3 U	< 0.58 UJ	< 1.3 UJ	< 1.3 U	< 0.8 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 2.6 U	< 1.3 U	< 1.3 U	< 2.7 U	< 1.3 U	< 1.3 U	< 0.77 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 1.3 U	< 1.3 U	< 2.7 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 0.81 U	< 2.1 U	< 2.1 U	< 4.9 U	< 2.1 U	< 2.1 U	< 0.16 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 2.1 U	< 2.1 U	< 4.9 U
Methylcyclohexane	NSL	µg/L	< 0.090 U	< 0.16 U	< 0.16 U	< 0.6 U	< 0.16 U	< 0.16 U	< 1.3 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.16 U	< 0.16 U	< 0.6 U
Methylene Chloride	5	µg/L	< 1.0 U	< 0.44 U	< 0.44 U	< 1 U	< 0.44 U	< 0.44 U	< 0.17 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1.0 U	< 0.44 U	< 0.44 U	< 1 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	NA	NA	NA	< 0.59 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.59 U
Styrene	5	µg/L	< 0.28 U	< 0.73 U	< 0.73 U	< 0.49 U	< 0.73 U	< 0.73 U	< 0.12 U	< 0.73 U							

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
NSL = No screening level available.
VOCs = Volatile organic compounds.

Concentrations exceeding the screening level are shaded gray.

Table 1b. Groundwater PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date			MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-03	MW-03WG MW-3	MW-03WG MW-03	MW-03WG MW-03	MW-03WG 622017-MW-03	MW-04WG MW-04	MW-04WG MW-04
			4/21/2010	7/13/2011	10/18/2012	10/16/2013	10/15/2014	10/7/2015	1/24/2017	12/5/2017	10/22/2019	9/7/2021	9/25/2023	4/21/2010	7/13/2011
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633/EPA 537)															
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8 U	NA	NA
13C2-6:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 20 U	< 4.6 U	< 2.2 U	NA	NA
13C2-8:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0 U	< 2.4 U	< 0.41 U	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4 U	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.2 U	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.9 U	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7 U	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.1 U	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.4 U	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2 U	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.4 U	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8 U	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.52 U	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9 U	< 1.2 U	< 1.2 U	< 0.9 U	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.7 U	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.63 U	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0 U	< 1.4 U	< 1.1 U	< 0.5 U	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.7 U	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3 U	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27 U	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3 U	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.55 U	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	5.6	5.4	6.1	3.7	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	5.5	4	3.2 J	3.00 J	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31 U	< 0.75 U	< 0.29 U	< 1.1 U	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.30 U	< 0.64 U	< 0.28 U	< 0.61 U	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.4 U	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.54 U	< 0.49 U	< 0.49 U	< 0.76 U	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.19 U	< 0.79 U	< 0.17 U	< 0.97 U	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	9.5	8.6	7.3	4.8	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	15 B	13	13	9.2	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	6.7	8.1	5.9	4.3	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4 U	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26 U	< 0.22 U	< 0.24 U	< 0.4 U	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.34 U	< 8.3 U	< 0.88 U	< 0.68 U	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	0.53 J	< 0.51 U	< 0.48 U	< 0.42 U	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	13	16	18	10	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	3.1	3.7	2.6	2.30 J	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28 U	< 0.76 U	< 0.65 U	< 0.75 U	NA
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3 U	< 0.50 U	< 1.2 U	< 0.78 U	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1 U	< 0.65 U	< 0.98 U	< 0.54 U	NA
1,4-Dioxane (SW8270)															
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.12 J	0.34	0.23	0.11	NA

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
J = Concentration is estimated.
U = Analyte not detected.
µg/L = Microgram(s) per liter.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 1b. Groundwater PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date			MW-04WG MW-04	MW-04WG MW-04	MW-04WG MW-04	MW-04WG MW-04	MW-04WG MW-04	MW-04WG MW-4	MW-04WG MW-04	MW-04WG MW-04	MW-04WG 622017-MW-04	MW-16WG MW-16	MW-16WG MW-16	MW-16WG MW-16	MW-16WG MW-16
			10/18/2012	10/16/2013	10/15/2014	10/7/2015	1/24/2017	12/5/2017	10/22/2019	9/7/2021	9/25/2023	4/21/2010	7/13/2011	10/18/2012	10/16/2013
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633/EPA 537)															
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA
13C2-6:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	NA	< 20 U	< 4.7 U	< 2.3 U	NA	NA	NA	NA	NA
13C2-8:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	NA	< 2.0 U	< 2.5 U	< 0.42 U	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4 U	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 2.2 U	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.9 U	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 7.1 U	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 6.1 U	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 2.4 U	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2 U	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 2.4 U	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.53 U	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.9 U	< 1.3 U	< 1.2 U	< 0.9 U	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 3.7 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.64 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.0 U	< 1.5 U	< 1.1 U	< 0.51 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 2.8 U	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3 U	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27 U	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.3 U	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.56 U	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	NA	0.31 J	0.76 J	0.69 J	0.910 J	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	NA	4.9	1.5 J	< 2.2 U	2.30 J	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.31 U	< 0.77 U	< 0.29 U	< 1.1 U	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.30 U	< 0.66 U	< 0.28 U	< 0.62 U	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.4 U	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.54 U	< 0.51 U	< 0.50 U	< 0.77 U	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.19 U	< 0.82 U	< 0.17 U	< 0.97 U	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	NA	1.6 J	2.1	2.3	2.1	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	NA	< 2.0 U	1.4 J	1.2 J	1.50 J	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	NA	1.8 J	2.8	2.6 NJ	1.90 J	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4 U	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.27 U	< 0.23 U	< 0.24 U	< 0.4 U	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.34 U	< 8.6 U	< 0.89 U	< 0.69 U	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	NA	< 0.53 U	< 0.52 U	< 0.49 U	< 0.43 U	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	NA	4.1	6.6	7.7	7.6	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	NA	1.2 J	2.1	1.8	1.70 J	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.28 U	< 0.79 U	< 0.66 U	< 0.76 U	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.3 U	< 0.52 U	< 1.2 U	< 0.79 U	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.1 U	< 0.67 U	< 1.0 U	< 0.55 U	NA	NA	NA	NA
1,4-Dioxane (SW8270)															
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	2.9	6.2	4.6	1.12	NA	NA	NA	NA

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
J = Concentration is estimated.
U = Analyte not detected.
µg/L = Microgram(s) per liter.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 1b. Groundwater PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date			MW-16WG MW-16	MW-16WG MW-16	MW-16WG MW-16	MW-16WG DUP-02 MW-16	MW-16WG MW-16	MW-16WG MW-16	MW-16WG MW-16	MW-16WG 622017-MW-16	SW-01DWG SW-01D	SW-01DWG DUP-2 SW-01D	SW-01DWG SW-01D	SW-01DWG SW-01D	SW-01DWG SW-01D
			10/15/2014	10/7/2015	1/23/2017	1/23/2017	12/5/2017	10/21/2019	9/7/2021	9/25/2023	4/21/2010	4/21/2010	7/12/2011	10/17/2012	10/15/2013
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633/EPA 537)															
11-Chloroicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA
13C2-6:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	< 20 U	< 4.5 U	< 2.3 U	NA	NA	NA	NA	NA	NA
13C2-8:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	< 2.0 U	< 2.4 U	< 0.43 U	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1.4 U	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 2.2 U	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.89 U	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 6.9 U	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 6 U	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 2.4 U	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1.2 U	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 2.4 U	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.52 U	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	< 1.9 U	< 1.2 U	< 1.2 U	< 0.89 U	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 3.7 U	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.62 U	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	< 3.1 U	< 1.4 U	< 1.1 U	< 0.5 U	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 2.7 U	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1.2 U	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.26 U	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.29 U	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.55 U	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	0.28 J	0.4 J	0.4 J	< 0.64 U	NA	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	< 2.0 U	< 0.81 U	< 2.2 U	< 0.91 U	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	< 0.32 U	< 0.73 U	< 0.30 U	< 1.1 U	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	< 0.31 U	< 0.63 U	< 0.29 U	< 0.6 U	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.39 U	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	< 0.55 U	< 0.48 U	< 0.51 U	< 0.75 U	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	< 0.19 U	< 0.77 U	< 0.18 U	< 0.96 U	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	0.59 J	< 0.74 U	0.49 J	< 0.49 U	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	< 2.0 U	< 0.65 U	< 0.53 U	< 1.1 U	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	< 0.58 U	< 0.62 U	< 0.54 U	0.480 J	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1.4 U	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	< 0.27 U	< 0.22 U	< 0.25 U	< 0.39 U	NA	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	< 0.35 U	< 8.1 U	< 0.91 U	< 0.67 U	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	< 0.54 U	< 0.50 U	< 0.50 U	< 0.42 U	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	1.3 J	1.7	1.3 J	< 0.73 U	NA	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.98 U	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	< 0.49 U	< 0.51 U	< 0.45 U	< 0.71 U	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	< 0.29 U	< 0.75 U	< 0.68 U	< 0.74 U	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	NA	NA	NA	< 1.3 U	< 0.49 U	< 1.2 U	< 0.77 U	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	< 1.1 U	< 0.63 U	< 1.0 U	< 0.54 U	NA	NA	NA	NA	NA
1,4-Dioxane (SW8270)															
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	0.28 J	< 1.0 U	0.42	0.14	NA	NA	NA	NA	NA

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
J = Concentration is estimated.
U = Analyte not detected.
µg/L = Microgram(s) per liter.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 1b. Groundwater PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date			SW-01DWG SW-01D	SW-01DWG SW-01D	SW-01DWG SW-01D	SW-01DWG SW-1D	SW-01DWG SW-01D	SW-01DWG SW-01D	SW-01DWG 622017-SW-01D	SW-01SWG SW-01S	SW-01SWG SW-01S	SW-01SWG FD-071211 SW-01S 7/12/2011	SW-01SWG SW-01S	SW-01SWG SW-01S	SW-01SWG SW-01S
Analyte			10/14/2014	10/6/2015	1/24/2017	12/5/2017	10/21/2019	9/8/2021	9/26/2023	4/21/2010	7/12/2011	7/12/2011	10/17/2012	10/15/2013	10/14/2014
NYSDEC AWQS ¹			Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633/EPA 537)															
11-Chloroicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13C2-6:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	NA	< 4.5 U	NA	NA	NA	NA	NA	NA	NA
13C2-8:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	NA	< 2.4 U	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.2 U	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.4 U	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.41 U	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	NA	< 0.83 U	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.74 U	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.64 U	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.49 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.79 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.75 U	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.66 U	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.63 U	NA	NA	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.22 U	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 8.3 U	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	NA	< 0.50 U	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	NA	< 0.67 U	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.52 U	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.76 U	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.50 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.65 U	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (SW8270)															
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	< 0.10 U	NA	NA	NA	NA	NA	NA	NA

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
J = Concentration is estimated.
U = Analyte not detected.
µg/L = Microgram(s) per liter.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 1b. Groundwater PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date			SW-01SWG SW-01S	SW-01SWG SW-01S	SW-01SWG SW-1S	SW-01SWG SW-01S	SW-01SWG SW-01S	SW-01SWG FD-090821 SW-01S 9/8/2021	SW-01SWG 622017-SW-01S 9/26/2023	SW-02DWG SW-02D 4/22/2010	SW-02DWG SW-02D 7/12/2011	SW-02DWG SW-02D 10/17/2012	SW-02DWG FD-101712 SW-02D 10/17/2012	SW-02DWG SW-02D 10/15/2013	SW-02DWG FD-101513 SW-02D 10/15/2013
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633/EPA 537)															
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	NA
13C2-6:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	< 4.9 U	< 2.1 U	< 2.3 U	NA	NA	NA	NA	NA	NA	NA
13C2-8:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	< 2.6 U	< 0.39 U	< 0.42 U	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 1.4 U	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 2.2 U	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 7.1 U	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 6.2 U	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 2.4 U	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 1.2 U	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 2.4 U	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 0.53 U	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	< 1.3 U	< 1.1 U	< 1.2 U	< 0.91 U	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 3.7 U	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 0.64 U	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	< 1.5 U	< 1.0 U	< 1.1 U	< 0.51 U	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 2.8 U	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 1.3 U	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 0.27 U	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 0.3 U	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 0.56 U	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	2.9	0.18 J	0.24 J	< 0.66 U	NA	NA	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	2.8	< 2.1 U	< 2.2 U	< 0.93 U	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	< 0.80 U	< 0.27 U	< 0.29 U	< 1.1 U	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	< 0.68 U	< 0.27 U	< 0.28 U	< 0.62 U	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 0.4 U	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	< 0.52 U	< 0.47 U	< 0.50 U	< 0.77 U	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	< 0.84 U	< 0.16 U	< 0.17 U	< 0.98 U	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	9.2	0.49 J	0.36 J	< 0.5 U	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	11	1.4 J	1.6 J	1.50 J	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	9.7	< 0.50 U	< 0.52 U	< 0.29 U	NA	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 1.4 U	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	< 0.24 U	< 0.23 U	< 0.24 U	< 0.4 U	NA	NA	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	< 8.9 U	< 0.84 U	< 0.88 U	< 0.69 U	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	< 0.54 U	< 0.46 U	< 0.49 U	< 0.43 U	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	25	3.3	3.5	3.3	NA	NA	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 1 U	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	3	< 0.42 U	< 0.44 U	< 0.73 U	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	< 0.82 U	< 0.63 U	< 0.66 U	< 0.76 U	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	NA	NA	< 0.53 U	< 1.1 U	< 1.2 U	< 0.79 U	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	< 0.69 U	< 0.94 U	< 0.99 U	< 0.55 U	NA	NA	NA	NA	NA	NA
1,4-Dioxane (SW8270)															
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	< 0.10 U	< 0.10 UJ	5.4 J	< 0.05 U	NA	NA	NA	NA	NA	NA

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational G)
J = Concentration is estimated.
U = Analyte not detected.
µg/L = Microgram(s) per liter.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 1b. Groundwater PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date			SW-02DWG SW-02D	SW-02DWG FIELD DUP GW SW-02D	SW-02DWG SW-02D	SW-02DWG SW-02D	SW-02DWG SW-2D	SW-02DWG SW-02D	SW-02DWG DUP-GW-01 SW-02D	SW-02DWG SW-02D	SW-02DWG 622017-SW-02D	SW-02SWG SW-02S	SW-02SWG SW-02S	SW-02SWG SW-02S	SW-02SWG SW-02S
Analyte			10/14/2014	10/14/2014	10/6/2015	1/25/2017	12/6/2017	10/22/2019	10/22/2019	9/8/2021	9/26/2023	4/22/2010	7/12/2011	10/17/2012	10/15/2013
NYSDEC AWQS ¹			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633/EPA 537)															
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13C2-6:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	< 19 U	< 4.5 U	< 4.5 U	NA	NA	NA	NA	NA	NA
13C2-8:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	< 1.9 U	< 2.4 U	< 2.4 U	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	< 1.8 U	< 1.2 U	< 1.2 U	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	< 2.9 U	< 1.4 U	< 1.4 U	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	< 0.19 U	< 0.40 U	< 0.40 U	NA	NA	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	< 1.9 U	< 0.81 U	< 0.81 U	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	< 0.30 U	< 0.73 U	< 0.73 U	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	< 0.29 U	< 0.63 U	< 0.63 U	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	< 0.52 U	< 0.48 U	< 0.48 U	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	< 0.18 U	< 0.77 U	< 0.77 U	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	< 0.24 U	< 0.74 U	< 0.74 U	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	< 1.9 U	< 0.65 U	< 0.65 U	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	< 0.55 U	< 0.62 U	< 0.62 U	NA	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	< 0.26 U	< 0.22 U	< 0.22 U	NA	NA	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	0.89 J	< 8.1 U	< 8.1 U	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	< 0.51 U	< 0.50 U	< 0.50 U	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	< 0.81 U	< 0.66 U	< 0.66 U	NA	NA	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	< 0.46 U	< 0.51 U	< 0.51 U	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	< 0.27 U	< 0.75 U	< 0.75 U	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	NA	NA	NA	< 1.2 U	< 0.49 U	< 0.49 U	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	< 1.0 U	< 0.64 U	< 0.63 U	NA	NA	NA	NA	NA	NA
1,4-Dioxane (SW8270)															
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	< 0.044 U	< 0.10 U	< 0.10 U	NA	NA	NA	NA	NA	NA

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
J = Concentration is estimated.
U = Analyte not detected.
µg/L = Microgram(s) per liter.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 1b. Groundwater PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date			SW-02SWG SW-02S	SW-02SWG SW-02S	SW-02SWG FD-100615 SW-02S	SW-02SWG SW-02S	SW-02SWG SW-2S	SW-02SWG SW-02S	SW-02SWG SW-02S	SW-02SWG 622017-SW-02S	SW-02SWG 622017-FD-092623 622017-SW-02S	SW-03SWG SW-03S	SW-03SWG SW-03S	SW-03SWG SW-03S	SW-03SWG SW-03S
			10/14/2014	10/6/2015	10/6/2015	1/25/2017	12/6/2017	10/22/2019	9/8/2021	9/26/2023	9/26/2023	4/22/2010	7/12/2011	10/17/2012	10/15/2013
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633/EPA 537)															
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 2.1 U	< 1.8 U	NA	NA	NA	NA
13C2-6:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	NA	< 4.5 U	< 2.3 U	NA	NA	NA	NA	NA	NA
13C2-8:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	NA	NA	NA	< 2.4 U	< 0.43 U	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1.7 U	< 1.5 U	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 2.6 U	< 2.3 U	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1 U	< 0.92 U	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 8.2 U	< 7.2 U	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 7.1 U	< 6.2 U	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 2.8 U	< 2.4 U	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1.4 U	< 1.2 U	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 2.8 U	< 2.5 U	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 2.1 U	< 1.8 U	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.61 U	< 0.53 U	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.2 U	< 1.2 U	< 1 U	< 0.92 U	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 4.3 U	< 3.8 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.74 U	< 0.64 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.4 U	< 1.1 U	< 0.59 U	< 0.51 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 3.2 U	< 2.8 U	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1.5 U	< 1.3 U	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.31 U	< 0.27 U	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.35 U	< 0.3 U	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.65 U	< 0.56 U	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.40 U	< 0.19 U	< 0.76 U	< 0.66 U	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	NA	< 0.82 U	< 2.2 U	< 1.1 U	< 0.94 U	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.74 U	< 0.30 U	< 1.3 U	< 1.1 U	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.63 U	< 0.29 U	< 0.71 U	< 0.62 U	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.46 U	< 0.4 U	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.48 U	< 0.51 U	< 0.89 U	< 0.77 U	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.78 U	< 0.18 U	< 1.1 U	< 0.99 U	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.75 U	< 0.23 U	< 0.58 U	1.10 J	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.66 U	< 0.53 U	< 1.3 U	1.90 J	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.62 U	< 0.54 U	< 0.33 U	< 0.29 U	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1.7 U	< 1.4 U	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.22 U	< 0.25 U	< 0.46 U	< 0.4 U	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 8.2 U	< 0.91 U	< 0.79 U	< 0.69 U	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	NA	< 0.50 U	< 0.50 U	< 0.5 U	< 0.43 U	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	NA	< 0.66 U	< 0.79 U	< 0.86 U	3.4	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 1.2 U	< 1 U	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.52 U	< 0.45 U	< 0.84 U	< 0.73 U	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.75 U	< 0.68 U	< 0.88 U	< 0.76 U	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.49 U	< 1.2 U	< 0.91 U	< 0.79 U	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.64 U	< 1.0 U	< 0.63 U	< 0.55 U	NA	NA	NA	NA
1,4-Dioxane (SW8270)															
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	< 0.10 U	< 0.10 U	< 0.051 U	< 0.05 U	NA	NA	NA	NA

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
J = Concentration is estimated.
U = Analyte not detected.
µg/L = Microgram(s) per liter.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 1b. Groundwater PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date			SW-03SWG SW-03S	SW-03SWG SW-03S	SW-03SWG SW-3S	SW-03SWG SW-03S	SW-03SWG SW-03S	SW-03SWG 622017-SW-03S	SW-04DWG SW-04D	SW-04DWG SW-04D	SW-04DWG SW-04D	SW-04DWG SW-04D	SW-04DWG SW-04D	SW-04DWG SW-04D	SW-04DWG SW-04D
			10/14/2014	10/6/2015	12/6/2017	10/22/2019	9/8/2021	9/26/2023	4/21/2010	7/13/2011	10/17/2012	10/16/2013	10/14/2014	10/7/2015	1/23/2017
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633/EPA 537)															
11-Chloroicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	NA	NA
13C2-6:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	< 19 U	< 4.7 U	< 2.3 U	NA	NA	NA	NA	NA	NA	NA	NA
13C2-8:2 Fluorotelomer sulfonate	NSL	ng/L	NA	NA	< 1.9 U	< 2.5 U	< 0.43 U	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	< 1.4 U	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	< 2.2 U	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	< 0.89 U	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 7 U	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 6 U	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 2.4 U	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.2 U	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	< 2.4 U	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.52 U	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	< 1.8 U	< 1.3 U	< 1.2 U	< 0.89 U	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.7 U	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.63 U	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	< 3.0 U	< 1.4 U	< 1.1 U	< 0.5 U	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	< 2.7 U	NA	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.3 U	NA	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.26 U	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.29 U	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.55 U	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	0.35 J	0.43 J	0.58 J	< 0.64 U	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	< 1.9 U	1.3 J	< 2.2 U	1.60 J	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	< 0.30 U	< 0.76 U	< 0.30 U	< 1.1 U	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	< 0.30 U	< 0.65 U	< 0.29 U	< 0.61 U	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.39 U	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	< 0.52 U	< 0.50 U	< 0.51 U	< 0.75 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	< 0.18 U	< 0.81 U	< 0.18 U	< 0.96 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	< 0.24 U	< 0.77 U	< 0.23 U	< 0.49 U	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	< 1.9 U	< 0.68 U	< 0.53 U	< 1.1 U	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	< 0.55 U	< 0.64 U	< 0.54 U	< 0.28 U	NA	NA	NA	NA	NA	NA	NA
Perfluoronananesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.4 U	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	< 0.26 U	< 0.23 U	< 0.25 U	< 0.39 U	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	< 0.33 U	< 8.5 U	< 0.92 U	< 0.67 U	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	< 0.51 U	< 0.52 U	< 0.50 U	< 0.42 U	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	< 0.81 U	0.82 J	1 J	< 0.73 U	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.99 U	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	< 0.47 U	< 0.53 U	< 0.46 U	< 0.71 U	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	< 0.28 U	< 0.78 U	< 0.68 U	< 0.74 U	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	NA	< 1.2 U	< 0.51 U	< 1.2 U	< 0.77 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	< 1.0 U	< 0.66 U	< 1.0 U	< 0.54 U	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (SW8270)															
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	< 0.044 U	< 0.10 U	< 0.10 U	< 0.05 U	NA	NA	NA	NA	NA	NA	NA

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational G)
J = Concentration is estimated.
U = Analyte not detected.
µg/L = Microgram(s) per liter.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 1b. Groundwater PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date			SW-04DWG SW-4D 12/5/2017	SW-04DWG DUP-1 SW-4D 12/5/2017	SW-04DWG SW-04D 10/21/2019	SW-04DWG SW-04D 9/7/2021	SW-04DWG 622017-SW-04D 9/25/2023	SW-04SWG SW-04S 4/21/2010	SW-04SWG SW-04S 7/13/2011	SW-04SWG SW-04S 10/17/2012	SW-04SWG SW-04S 10/16/2013	SW-04SWG SW-04S 10/14/2014	SW-04SWG SW-04S 10/7/2015	SW-04SWG SW-04S 1/23/2017	SW-04SWG SW-4S 12/5/2017
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633/EPA 537)															
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13C2-6:2 Fluorotelomer sulfonate	NSL	ng/L	< 20 U	< 20 U	< 4.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 20 U
13C2-8:2 Fluorotelomer sulfonate	NSL	ng/L	< 2.0 U	< 2.0 U	< 2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	< 1.9 U	< 1.9 U	< 1.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	< 3.0 U	< 3.1 U	< 1.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.1 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	< 0.20 U	< 0.20 U	< 0.43 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.20 U
Perfluorobutanoic Acid	NSL	ng/L	< 0.34 U	< 2.0 U	< 0.87 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	< 0.31 U	< 0.32 U	< 0.78 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.32 U
Perfluorodecanoic acid (PFDA)	NSL	ng/L	< 0.30 U	< 0.31 U	< 0.67 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31 U
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	< 0.54 U	< 0.55 U	< 0.51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.55 U
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	< 0.19 U	< 0.19 U	< 0.83 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.19 U
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	< 0.25 U	< 0.25 U	< 0.79 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36 J
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	< 2.0 U	< 2.0 U	< 0.70 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0 U
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	< 0.57 U	< 0.58 U	< 0.66 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58 U
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	< 0.27 U	< 0.27 U	< 0.24 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27 U
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	0.64 J	0.65 J	< 8.7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36 J
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	< 0.53 U	< 0.54 U	< 0.53 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.54 U
Perfluorooctanoic acid (PFOA)	6.7	ng/L	< 0.84 U	< 0.84 U	< 0.71 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 J
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	< 0.48 U	< 0.49 U	< 0.55 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.49 U
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	< 0.29 U	< 0.29 U	< 0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.51 J
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	< 1.3 U	< 1.3 U	< 0.52 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3 U
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	< 1.1 U	< 1.1 U	< 0.68 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1 U
1,4-Dioxane (SW8270)															
1,4-Dioxane (P-Dioxane)	0.35	µg/L	< 0.044 U	< 0.046 U	< 0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.69

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
J = Concentration is estimated.
U = Analyte not detected.
µg/L = Microgram(s) per liter.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 1b. Groundwater PFAS and 1,4-Dioxane Results

		Location ID Sample Name Parent Sample ID Sample Date	SW-04SWG SW-04S 10/21/2019	SW-04SWG SW-04S 9/7/2021	SW-04SWG 622017-SW-04S 9/25/2023
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result
PFAS (EPA 1633/EPA 537)					
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	< 1.8 U
13C2-6:2 Fluorotelomer sulfonate	NSL	ng/L	< 4.9 U	< 2.4 U	NA
13C2-8:2 Fluorotelomer sulfonate	NSL	ng/L	< 2.6 U	< 0.44 U	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	< 1.4 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	< 2.2 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	< 0.9 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	< 7 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	< 6.1 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	< 2.4 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	< 1.2 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	< 2.4 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	< 1.8 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	< 0.52 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	< 1.3 U	< 1.3 U	< 0.9 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	< 3.7 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	< 0.63 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	< 1.5 U	< 1.2 U	< 0.5 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	< 2.7 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	< 1.3 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	NA	< 0.27 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	< 0.3 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	< 0.55 U
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	< 0.43 U	< 0.19 U	< 0.65 U
Perfluorobutanoic Acid	NSL	ng/L	1.6 J	< 2.3 U	< 0.92 U
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	< 0.80 U	< 0.31 U	< 1.1 U
Perfluorodecanoic acid (PFDA)	NSL	ng/L	< 0.68 U	< 0.30 U	< 0.61 U
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	< 0.4 U
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	< 0.52 U	< 0.53 U	< 0.76 U
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	< 0.84 U	< 0.18 U	< 0.97 U
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	< 0.81 U	0.63 J	< 0.49 U
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	< 0.71 U	< 0.55 U	< 1.1 U
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	0.74 J	0.76 J	0.420 J
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	< 1.4 U
Perfluorononanoic acid (PFNA)	NSL	ng/L	< 0.24 U	< 0.26 U	< 0.4 U
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	< 8.8 U	< 0.95 U	< 0.68 U
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	< 0.54 U	< 0.52 U	< 0.42 U
Perfluorooctanoic acid (PFOA)	6.7	ng/L	1.3 J	1.6 J	0.850 J
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	< 1 U
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	0.77 J	0.52 J	1.10 J
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	< 0.81 U	< 0.71 U	< 0.75 U
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	< 0.53 U	< 1.3 U	< 0.78 U
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	< 0.69 U	< 1.1 U	< 0.54 U
1,4-Dioxane (SW8270)					
1,4-Dioxane (P-Dioxane)	0.35	µg/L	1.4	0.51	0.15

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gu
J = Concentration is estimated.
U = Analyte not detected.
µg/L = Microgram(s) per liter.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 2a. Surface Water VOCs Results

Location ID Sample Name Parent Sample ID Sample Date			NDPWS NDP	NDPWS NDP-WS	NDPWS FD-071311 NDP-WS	NDPWS NDP-WS	NDPWS NDP	NDPWS FD-101613 NDP	NDPWS NDP	NDPWS NDP	NDPWS FD-100715 NDP	NDPWS NDP	NDPWS NDP	NDPWS NDP
			4/20/2010	7/13/2011	7/13/2011	10/18/2012	10/16/2013	10/16/2013	10/15/2014	10/7/2015	10/7/2015	1/24/2017	12/5/2017	10/22/2019
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)														
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.82 U	< 0.82 U	< 0.82 U	< 0.060 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 U	< 0.82 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.21 U	< 0.21 U	< 0.21 U	< 0.12 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.21 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.31 U	< 0.31 U	< 0.31 U	< 0.76 UJ	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U	< 0.31 U
1,1,2-Trichloroethane	1	µg/L	< 0.23 U	< 0.23 U	< 0.23 U	< 0.10 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.23 U
1,1-Dichloroethane	5	µg/L	< 0.38 U	< 0.38 U	< 0.38 U	< 0.070 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.24 U	< 0.38 U
1,1-Dichloroethene	5	µg/L	< 0.29 U	< 0.29 U	< 0.29 U	< 0.16 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 0.29 U
1,2,3-Trichlorobenzene	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 0.41 U	< 0.41 U	< 0.41 U	< 0.30 UJ	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 0.41 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.39 UJ	< 0.39 UJ	< 0.39 UJ	< 0.18 UJ	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U	< 0.39 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.73 U	< 0.73 U	< 0.73 U	< 0.085 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 0.73 U
1,2-Dichlorobenzene	3	µg/L	< 0.79 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 0.79 U
1,2-Dichloroethane	0.6	µg/L	< 0.21 U	< 0.21 U	< 0.21 U	< 0.087 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U	< 0.21 U
1,2-Dichloropropane	1	µg/L	< 0.72 U	< 0.72 U	< 0.72 U	< 0.095 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 0.72 U
1,3-Dichlorobenzene	3	µg/L	< 0.78 U	< 0.78 U	< 0.78 U	< 0.13 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.78 U
1,4-Dichlorobenzene	3	µg/L	< 0.84 U	< 0.84 U	< 0.84 U	< 0.11 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 0.84 U
2-Hexanone	50	µg/L	< 1.2 U	< 1.2 U	< 1.2 U	< 0.44 UJ	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 1.2 U
Acetone	50	µg/L	< 3.0 U	< 3.0 U	< 3.0 U	< 0.36 U	< 3 U	< 3 U	4.1 J	< 3.0 U	< 3.0 U	< 3.0 U	6 J	< 3.0 U
Benzene	1	µg/L	< 0.41 U	< 0.41 U	< 0.41 U	< 0.074 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 U	< 0.41 U
Bromochloromethane	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	50	µg/L	< 0.39 U	< 0.39 U	< 0.39 U	< 0.063 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 0.39 U
Bromoform	50	µg/L	< 0.26 UJ	< 0.26 UJ	< 0.26 UJ	< 0.49 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 UJ	< 0.29 U	< 0.26 U
Bromomethane	5	µg/L	< 0.69 UJ	< 0.69 UJ	< 0.69 UJ	< 0.22 UJ	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 UJ	< 0.69 UJ	< 0.69 U	< 0.35 UJ	< 0.69 U
Carbon Disulfide	60	µg/L	< 0.19 U	< 0.19 U	< 0.19 U	< 0.54 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 UJ	< 0.19 U	< 0.22 U	< 0.19 U
Carbon Tetrachloride	5	µg/L	< 0.27 U	< 0.27 UJ	< 0.27 UJ	< 0.47 U	< 0.27 U	< 0.27 U	< 0.27 UJ	< 0.27 UJ	< 0.27 U	< 0.27 U	< 0.18 U	< 0.27 U
Chlorobenzene	5	µg/L	< 0.75 U	< 0.75 U	< 0.75 U	< 0.034 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U	< 0.75 U
Chloroethane	5	µg/L	< 0.32 U	< 0.32 UJ	< 0.32 UJ	< 0.20 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 0.32 U
Chloroform	7	µg/L	< 0.34 U	< 0.34 U	< 0.34 U	< 0.11 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 0.34 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.35 U	< 0.35 U	< 0.35 U	< 0.18 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.36 UJ	< 0.35 U
Cis-1,2-Dichloroethylene	5	µg/L	< 0.81 U	< 0.81 U	< 0.81 U	< 0.15 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.21 U	< 0.81 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.36 U	< 0.36 U	< 0.36 U	< 0.11 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 0.36 U
Cyclohexane	NSL	µg/L	< 0.18 U	< 0.18 U	< 0.18 U	< 0.087 U	< 0.18 U	< 0.18 U	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.18 U	< 0.13 U	< 0.18 U
Dibromochloromethane	50	µg/L	< 0.32 U	< 0.32 UJ	< 0.32 UJ	< 0.17 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 0.32 U
Dichlorodifluoromethane	5	µg/L	< 0.68 U	< 0.68 UJ	< 0.68 UJ	< 0.10 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 U	< 0.68 U	< 0.68 UJ	< 0.17 U	< 0.68 U
Ethylbenzene	5	µg/L	< 0.74 U	< 0.74 U	< 0.74 U	< 0.13 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 0.74 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.79 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U	< 0.79 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NSL	µg/L	< 0.50 U	< 0.50 U	< 0.50 U	< 10 U	< 0.5 U	< 0.5 U	< 0.50 U	< 1.3 U	< 1.3 U	< 1.3 U	< 0.58 UJ	< 1.3 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 1.3 U	< 1.3 U	< 1.3 U	< 0.77 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 1.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 2.1 U	< 2.1 U	< 2.1 U	< 0.16 UJ	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 2.1 U
Methylcyclohexane	NSL	µg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 1.3 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.16 U
Methylene Chloride	5	µg/L	< 0.44 U	< 0.44 U	< 0.44 U	< 0.17 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1.0 U	< 0.44 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	5	µg/L	< 0.73 U	< 0.73 U	< 0.73 U	< 0.12 UJ	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.28 U	< 0.73 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.031 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.17 U	< 0.16 U
Tetrachloroethylene (PCE)	5	µg/L	< 0.36 U	< 0.36 U	< 0.36 U	< 0.38 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.14 U	< 0.36 U
Toluene	5	µg/L	< 0.51 U	< 0.51 U	< 0.51 U	< 0.077 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.17 U	< 0.51 U
Trans-1,2-Dichloroethene	5	µg/L	< 0.90 U	< 0.90 U	< 0.90 U	< 0.075 U	< 0.9 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.23 U	< 0.90 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 0.37 U	< 0.37 U	< 0.37 U	< 0.14 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.17 U	< 0.37 U
Trichloroethylene (TCE)	5	µg/L	< 0.46 U	< 0.46 U	< 0.46 U	< 0.080 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.20 U	< 0.46 U
Trichlorofluoromethane	5	µg/L	< 0.88 U	< 0.88 UJ	< 0.88 UJ	< 0.14 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.88 UJ	< 0.88 UJ	< 0.88 U	< 0.21 U	< 0.88 U
Vinyl Chloride	2	µg/L	< 0.90 U	< 0.90 U	< 0.90 U	< 0.12 U	< 0.9 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.18 U	< 0.90 U
Xylenes	5	µg/L	< 0.66 U	< 0.66 U	< 0.66 U	< 0.065 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.58 U	< 0.66 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
NSL = No screening level available.
VOCs = Volatile organic compounds.
Concentrations exceeding the screening level are shaded gray.

Table 2a. Surface Water VOCs Results															
Location ID Sample Name Parent Sample ID Sample Date			NDPWS 622017-NDP 9/25/2023	SDPWS SDP 4/20/2010	SDPWS DUP-1 SDPSDP20100420 4/20/2010	SDPWS SDP-WS 7/13/2011	SDPWS SDP-WS 10/18/2012	SDPWS FD-101812 SDPSDP-WS20121018 10/18/2012	SDPWS SDP 10/16/2013	SDPWS SDP 10/15/2014	SDPWS SDP 10/7/2015	SDPWS SDP 1/24/2017	SDPWS SDP 12/5/2017	SDPWS SDP 10/22/2019	SDPWS 622017-SDP 9/25/2023
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)															
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.54 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.060 U	< 0.060 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 U	< 0.82 U	< 0.54 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.65 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.12 U	< 0.12 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.21 U	< 0.65 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.58 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.76 UJ	< 0.76 UJ	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U	< 0.31 U	< 0.58 U
1,1,2-Trichloroethane	1	µg/L	< 0.53 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.10 U	< 0.10 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.23 U	< 0.53 U
1,1-Dichloroethane	5	µg/L	< 0.57 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.070 U	< 0.070 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.24 U	< 0.38 U	< 0.57 U
1,1-Dichloroethene	5	µg/L	< 0.59 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.16 U	< 0.16 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 0.29 U	< 0.59 U
1,2,3-Trichlorobenzene	5	µg/L	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5 U
1,2,4-Trichlorobenzene	5	µg/L	< 0.5 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.30 UJ	< 0.30 UJ	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 0.41 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.53 U	< 0.39 UJ	< 0.39 UJ	< 0.39 UJ	< 0.18 UJ	< 0.18 UJ	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U	< 0.39 U	< 0.53 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.48 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.085 U	< 0.085 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 0.73 U	< 0.48 U
1,2-Dichlorobenzene	3	µg/L	< 0.53 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 0.79 U	< 0.53 U
1,2-Dichloroethane	0.6	µg/L	< 0.6 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.087 U	< 0.087 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U	< 0.21 U	< 0.6 U
1,2-Dichloropropane	1	µg/L	< 0.51 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.095 U	< 0.095 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 0.72 U	< 0.51 U
1,3-Dichlorobenzene	3	µg/L	< 0.54 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.13 U	< 0.13 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.78 U	< 0.54 U
1,4-Dichlorobenzene	3	µg/L	< 0.51 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.11 U	< 0.11 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 0.84 U	< 0.51 U
2-Hexanone	50	µg/L	< 4.8 U	< 1.2 U	< 1.2 U	< 1.2 U	< 0.44 UJ	< 0.44 UJ	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 1.2 U	< 4.8 U
Acetone	50	µg/L	3.6 J	< 3.0 U	< 3.0 U	< 3.0 U	< 0.36 U	< 0.36 U	< 3 U	3.7 J	< 3.0 U	< 3.0 U	< 2.7 U	< 3.0 U	< 3.1 U
Benzene	1	µg/L	< 0.43 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.074 U	< 0.074 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 U	< 0.41 U	< 0.43 U
Bromochloromethane	5	µg/L	< 0.48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48 U
Bromodichloromethane	50	µg/L	< 0.45 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.063 U	< 0.063 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 0.39 U	< 0.45 U
Bromoform	50	µg/L	< 0.63 U	< 0.26 UJ	< 0.26 UJ	< 0.26 UJ	< 0.49 U	< 0.49 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 UJ	< 0.29 U	< 0.26 U	< 0.63 U
Bromomethane	5	µg/L	< 1.6 U	< 0.69 UJ	< 0.69 UJ	< 0.69 UJ	< 0.22 UJ	< 0.22 UJ	< 0.69 U	< 0.69 U	< 0.69 UJ	< 0.69 U	< 0.35 UJ	< 0.69 U	< 1.6 U
Carbon Disulfide	60	µg/L	< 1.8 U	< 0.19 U	< 0.19 U	< 0.19 U	< 0.54 U	< 0.54 U	< 0.19 U	< 0.19 U	< 0.19 UJ	< 0.19 U	< 0.22 U	< 0.19 U	< 1.8 U
Carbon Tetrachloride	5	µg/L	< 0.55 U	< 0.27 U	< 0.27 U	< 0.27 UJ	< 0.47 U	< 0.47 U	< 0.27 U	< 0.27 UJ	< 0.27 U	< 0.27 U	< 0.18 U	< 0.27 U	< 0.55 U
Chlorobenzene	5	µg/L	< 0.56 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.034 U	< 0.034 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U	< 0.75 U	< 0.56 U
Chloroethane	5	µg/L	< 0.73 U	< 0.32 U	< 0.32 U	< 0.32 UJ	< 0.20 U	< 0.20 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 0.32 U	< 0.73 U
Chloroform	7	µg/L	< 0.5 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.11 U	< 0.11 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 0.34 U	< 0.5 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.76 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.18 U	< 0.18 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.36 UJ	< 0.35 U	< 0.76 U
Cis-1,2-Dichloroethylene	5	µg/L	< 0.51 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.15 U	< 0.15 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.21 U	< 0.81 U	< 0.51 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.47 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.11 U	< 0.11 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 0.36 U	< 0.47 U
Cyclohexane	NSL	µg/L	< 0.78 U	< 0.18 U	< 0.18 U	< 0.18 U	< 0.087 U	< 0.087 U	< 0.18 U	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.13 U	< 0.18 U	< 0.78 U
Dibromochloromethane	50	µg/L	< 0.56 U	< 0.32 U	< 0.32 U	< 0.32 UJ	< 0.17 U	< 0.17 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 0.32 U	< 0.56 U
Dichlorodifluoromethane	5	µg/L	< 0.56 U	< 0.68 U	< 0.68 U	< 0.68 UJ	< 0.10 UJ	< 0.10 UJ	< 0.68 UJ	< 0.68 UJ	< 0.68 U	< 0.68 UJ	< 0.17 U	< 0.68 U	< 0.56 U
Ethylbenzene	5	µg/L	< 0.6 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.13 U	< 0.13 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 0.74 U	< 0.6 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.65 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.11 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U	< 0.79 U	< 0.65 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	< 0.78 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.78 U
Methyl Acetate	NSL	µg/L	< 0.8 U	< 0.50 U	< 0.50 U	< 0.50 U	< 10 U	< 10 U	< 0.5 U	< 0.50 U	< 1.3 U	< 1.3 U	< 0.58 UJ	< 1.3 U	< 0.8 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 2.7 U	< 1.3 U	< 1.3 U	< 1.3 U	< 0.77 U	< 0.77 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 1.3 U	< 2.7 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 4.9 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.16 UJ	< 0.16 UJ	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 2.1 U	< 4.9 U
Methylcyclohexane	NSL	µg/L	< 0.6 U	< 0.16 U	< 0.16 U	< 0.16 U	< 1.3 U	< 1.3 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.16 U	< 0.6 U
Methylene Chloride	5	µg/L	< 1 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.17 U	< 0.17 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1.0 U	< 0.44 U	< 1 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	< 0.59 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.59 U
Styrene	5	µg/L	< 0.49 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.12 UJ	< 0.12 UJ	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.28 U	< 0.73 U	< 0.49 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.51 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.031 U	< 0.031 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.17 U	< 0.16 U	< 0.51 U
Tetrachloroethylene (PCE)	5	µg/L	< 0.56 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.38 U	< 0.38 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.14 U	< 0.36 U	< 0.56 U
Toluene	5	µg/L	< 0.49 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.077 U	< 0.077 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.17 U	< 0.51 U	< 0.49 U
Trans-1,2-Dichloroethene	5	µg/L	< 0.54 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.075 U	< 0.075 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.23 U	< 0.90 U	< 0.54 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 0.43 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.14 U	< 0.14 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.17 U	< 0.37 U	< 0.43 U
Trichloroethylene (TCE)	5	µg/L	< 0.53 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.080 U	< 0.080 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.20 U	< 0.46 U	< 0.53 U
Trichlorofluoromethane	5	µg/L	< 0.4 U	< 0.88 U	< 0.88 U	< 0.88 UJ	< 0.14 U	< 0.14 U	< 0.88 U	< 0.88 U	< 0.88 UJ	< 0.88 U	< 0.21 U	< 0.88 U	< 0.4 U
Vinyl Chloride	2	µg/L	< 0.52 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.12 U	< 0.12 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.18 U	< 0.90 U	< 0.52 U
Xylenes	5	µg/L	< 0.59 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.065 U	< 0.065 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.58 U	< 0.66 U	< 0.59 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance)
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
NSL = No screening level available.
VOCs = Volatile organic compounds.
Concentrations exceeding the screening level are shaded gray.

Table 2a. Surface Water VOCs Results

Location ID Sample Name Parent Sample ID Sample Date			SWTR-1EWS SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS FIELD DUP SW SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS DUP-01 SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS DUP-2 SWTR-1E	SWTR-1EWS SWTR-1E
			4/20/2010	7/13/2011	10/18/2012	10/16/2013	10/15/2014	10/15/2014	10/7/2015	1/23/2017	1/23/2017	12/5/2017	12/5/2017	10/21/2019
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)														
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.82 U	< 0.82 U	< 0.060 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 UJ	< 0.19 UJ	< 0.82 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.21 U	< 0.21 U	< 0.12 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.19 U	< 0.21 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.31 U	< 0.31 U	< 0.76 UJ	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 UJ	< 0.15 UJ	< 0.31 U
1,1,2-Trichloroethane	1	µg/L	< 0.23 U	< 0.23 U	< 0.10 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.19 U	< 0.23 U
1,1-Dichloroethane	5	µg/L	< 0.38 U	< 0.38 U	< 0.070 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.24 U	< 0.24 U	< 0.38 U
1,1-Dichloroethene	5	µg/L	< 0.29 U	< 0.29 U	< 0.16 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 0.25 U	< 0.29 U
1,2,3-Trichlorobenzene	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 0.41 U	< 0.41 U	< 0.30 UJ	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 0.20 UJ	< 0.41 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.39 UJ	< 0.39 UJ	< 0.18 UJ	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 UJ	< 0.94 UJ	< 0.39 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.73 U	< 0.73 U	< 0.085 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 0.21 U	< 0.73 U
1,2-Dichlorobenzene	3	µg/L	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 0.19 U	< 0.79 U
1,2-Dichloroethane	0.6	µg/L	< 0.21 U	< 0.21 U	< 0.087 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U	< 0.20 U	< 0.21 U
1,2-Dichloropropane	1	µg/L	< 0.72 U	< 0.72 U	< 0.095 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 0.25 U	< 0.72 U
1,3-Dichlorobenzene	3	µg/L	< 0.78 U	< 0.78 U	< 0.13 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 0.18 U	< 0.78 U
1,4-Dichlorobenzene	3	µg/L	< 0.84 U	< 0.84 U	< 0.11 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 0.17 U	< 0.84 U
2-Hexanone	50	µg/L	< 1.2 U	< 1.2 U	< 0.44 UJ	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 1.3 U	< 1.2 U
Acetone	50	µg/L	< 3.0 U	< 3.0 U	< 0.36 U	< 3 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	< 3.0 U	4.6 J	5 J	< 3.0 U
Benzene	1	µg/L	< 0.41 U	< 0.41 U	< 0.074 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 U	< 0.20 U	< 0.41 U
Bromochloromethane	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	50	µg/L	< 0.39 U	< 0.39 U	< 0.063 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 0.17 U	< 0.39 U
Bromoform	50	µg/L	< 0.26 UJ	< 0.26 UJ	< 0.49 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 UJ	< 0.29 U	< 0.29 U	< 0.26 U
Bromomethane	5	µg/L	< 0.69 UJ	< 0.69 UJ	< 0.22 UJ	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.35 U	< 0.35 U	< 0.69 U
Carbon Disulfide	60	µg/L	< 0.19 U	< 0.19 U	< 0.54 U	< 0.19 U	< 0.19 UJ	< 0.19 U	< 0.19 UJ	< 0.19 U	< 0.19 U	< 0.22 U	< 0.22 U	< 0.19 U
Carbon Tetrachloride	5	µg/L	< 0.27 U	< 0.27 UJ	< 0.47 U	< 0.27 U	< 0.27 U	< 0.27 UJ	< 0.27 U	< 0.27 U	< 0.27 U	< 0.18 U	< 0.18 U	< 0.27 U
Chlorobenzene	5	µg/L	< 0.75 U	< 0.75 U	< 0.034 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.75 U	< 0.18 U	< 0.18 U	< 0.75 U
Chloroethane	5	µg/L	< 0.32 U	< 0.32 UJ	< 0.20 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 0.36 U	< 0.32 U
Chloroform	7	µg/L	< 0.34 U	< 0.34 U	< 0.11 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 0.23 U	< 0.34 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.35 U	< 0.35 U	< 0.18 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.36 U	< 0.36 U	< 0.35 U
Cis-1,2-Dichloroethylene	5	µg/L	< 0.81 U	< 0.81 U	< 0.15 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.21 U	< 0.21 U	< 0.81 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.36 U	< 0.36 U	< 0.11 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 0.17 U	< 0.36 U
Cyclohexane	NSL	µg/L	< 0.18 U	< 0.18 U	< 0.087 U	< 0.18 U	< 0.18 UJ	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.18 U	< 0.13 U	< 0.13 U	< 0.18 U
Dibromochloromethane	50	µg/L	< 0.32 U	< 0.32 UJ	< 0.17 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 0.25 U	< 0.32 U
Dichlorodifluoromethane	5	µg/L	< 0.68 U	< 0.68 UJ	< 0.10 UJ	< 0.68 UJ	< 0.68 U	< 0.68 UJ	< 0.68 U	< 0.68 U	< 0.68 UJ	< 0.17 U	< 0.17 U	< 0.68 U
Ethylbenzene	5	µg/L	< 0.74 U	< 0.74 U	< 0.13 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 0.19 U	< 0.74 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.79 U	< 0.79 U	< 0.11 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U	< 0.33 U	< 0.79 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NSL	µg/L	< 0.50 U	< 0.50 U	< 10 U	< 0.5 U	< 0.50 U	< 0.50 U	< 0.50 U	< 1.3 U	< 1.3 U	< 0.58 UJ	< 0.58 UJ	< 1.3 UJ
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 1.3 U	< 1.3 U	< 0.77 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 2.6 U	< 1.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 2.1 U	< 2.1 U	< 0.16 UJ	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 0.81 U	< 2.1 U
Methylcyclohexane	NSL	µg/L	< 0.16 U	< 0.16 U	< 1.3 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.090 U	< 0.16 U
Methylene Chloride	5	µg/L	< 0.44 U	< 0.44 U	< 0.17 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1.0 U	< 1.0 U	< 0.44 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	5	µg/L	< 0.73 U	< 0.73 U	< 0.12 UJ	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.28 U	< 0.28 U	< 0.73 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.16 U	< 0.16 U	< 0.031 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.17 U	< 0.17 U	< 0.16 U
Tetrachloroethylene (PCE)	5	µg/L	< 0.36 U	< 0.36 U	< 0.38 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.14 U	< 0.14 U	< 0.36 U
Toluene	5	µg/L	< 0.51 U	< 0.51 U	< 0.077 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.17 U	< 0.17 U	< 0.51 U
Trans-1,2-Dichloroethene	5	µg/L	< 0.90 U	< 0.90 U	< 0.075 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.23 UJ	< 0.23 UJ	< 0.90 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 0.37 U	< 0.37 U	< 0.14 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.17 U	< 0.17 U	< 0.37 U
Trichloroethylene (TCE)	5	µg/L	< 0.46 U	< 0.46 U	< 0.080 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.20 U	< 0.20 U	< 0.46 U
Trichlorofluoromethane	5	µg/L	< 0.88 U	< 0.88 UJ	< 0.14 U	< 0.88 U	< 0.88 U	< 0.88 U	< 0.88 UJ	< 0.88 U	< 0.88 U	< 0.21 U	< 0.21 U	< 0.88 U
Vinyl Chloride	2	µg/L	< 0.90 U	< 0.90 U	< 0.12 U	< 0.9 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.18 U	< 0.18 U	< 0.90 U
Xylenes	5	µg/L	< 0.66 U	< 0.66 U	< 0.065 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.58 U	< 0.58 U	< 0.66 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gr
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
NSL = No screening level available.
VOCs = Volatile organic compounds.
Concentrations exceeding the screening level are shaded gray.

Table 2a. Surface Water VOCs Results

		Location ID Sample Name Parent Sample ID Sample Date	SWTR-1EWS DUP-SW-01 SWTR-1E 10/21/2019	SWTR-1EWS 622017-SWTR-1E 9/25/2023	SWTR-1TWS SWTR-1T 4/21/2010	SWTR-1TWS SWRT-1T 7/13/2011	SWTR-1TWS SWTR-1T 10/18/2012	SWTR-1TWS SWTR-1T 10/16/2013	SWTR-1TWS SWTR-1T 10/15/2014	SWTR-1TWS SWTR-1T 10/7/2015	SWTR-1TWS SWTR-1T 1/24/2017	SWTR-1TWS SWTR-1T 12/5/2017	SWTR-1TWS SWTR-1T 10/22/2019	SWTR-1TWS 622017-SWTR-1T 9/25/2023
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
VOCs (SW8260)														
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.82 U	< 0.54 U	< 0.82 U	< 3.3 U	< 0.060 U	< 4.1 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.19 U	< 3.3 U	< 0.54 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.21 U	< 0.65 U	< 0.21 U	< 0.84 U	< 0.12 U	< 1.1 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.19 U	< 0.84 U	< 0.65 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.31 U	< 0.58 U	< 0.31 U	< 1.2 U	< 0.76 U	< 1.6 U	< 0.31 U	< 0.31 U	< 0.31 U	< 0.15 U	< 1.2 U	< 0.58 U
1,1,2-Trichloroethane	1	µg/L	< 0.23 U	< 0.53 U	< 0.23 U	< 0.92 U	< 0.10 U	< 1.2 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.19 U	< 0.92 U	< 0.53 U
1,1-Dichloroethane	5	µg/L	< 0.38 U	< 0.57 U	< 0.38 U	< 1.5 U	< 0.070 U	< 1.9 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.24 U	< 1.5 U	< 0.57 U
1,1-Dichloroethene	5	µg/L	< 0.29 U	< 0.59 U	< 0.29 U	< 1.2 U	< 0.16 U	< 1.5 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.25 U	< 1.2 U	< 0.59 U
1,2,3-Trichlorobenzene	5	µg/L	NA	< 0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5 U
1,2,4-Trichlorobenzene	5	µg/L	< 0.41 U	< 0.5 U	< 0.41 U	< 1.6 U	< 0.30 U	< 2.1 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.20 UJ	< 1.6 U	< 0.5 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.39 U	< 0.53 U	< 0.39 UJ	< 1.6 UJ	< 0.18 U	< 2 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.94 U	< 1.6 U	< 0.53 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.73 U	< 0.48 U	< 0.73 U	< 2.9 U	< 0.085 U	< 3.7 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.21 U	< 2.9 U	< 0.48 U
1,2-Dichlorobenzene	3	µg/L	< 0.79 U	< 0.53 U	< 0.79 U	< 3.2 U	< 0.11 UJ	< 4 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.19 U	< 3.2 U	< 0.53 U
1,2-Dichloroethane	0.6	µg/L	< 0.21 U	< 0.6 U	< 0.21 U	< 0.84 U	< 0.087 U	< 1.1 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.20 U	< 0.84 U	< 0.6 U
1,2-Dichloropropane	1	µg/L	< 0.72 U	< 0.51 U	< 0.72 U	< 2.9 U	< 0.095 U	< 3.6 U	< 0.72 U	< 0.72 U	< 0.72 U	< 0.25 U	< 2.9 U	< 0.51 U
1,3-Dichlorobenzene	3	µg/L	< 0.78 U	< 0.54 U	< 0.78 U	< 3.1 U	< 0.13 UJ	< 3.9 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.18 U	< 3.1 U	< 0.54 U
1,4-Dichlorobenzene	3	µg/L	< 0.84 U	< 0.51 U	< 0.84 U	< 3.4 U	< 0.11 UJ	< 4.2 U	< 0.84 U	< 0.84 U	< 0.84 U	< 0.17 U	< 3.4 U	0.58 J
2-Hexanone	50	µg/L	< 1.2 U	< 4.8 U	< 1.2 U	< 5.0 U	< 0.44 U	< 6.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.3 U	< 5.0 U	< 4.8 U
Acetone	50	µg/L	< 3.0 U	< 3.1 U	9.4	20 J	< 0.36 UJ	< 15 U	11	4 J	5.4 J	4.7 J	16 J	3.9 J
Benzene	1	µg/L	< 0.41 U	< 0.43 U	< 0.41 U	1.8 J	< 0.074 U	2.1 J	< 0.41 U	< 0.41 U	< 0.41 U	0.22 J	< 1.6 U	0.77
Bromochloromethane	5	µg/L	NA	< 0.48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.48 U
Bromodichloromethane	50	µg/L	< 0.39 U	< 0.45 U	< 0.39 U	< 1.6 U	< 0.063 U	< 2 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.17 U	< 1.6 U	< 0.45 U
Bromoform	50	µg/L	< 0.26 U	< 0.63 U	< 0.26 UJ	< 1.0 UJ	< 0.49 U	< 1.3 U	< 0.26 U	< 0.26 U	< 0.26 UJ	< 0.29 U	< 1.0 U	< 0.63 U
Bromomethane	5	µg/L	< 0.69 U	< 1.6 U	< 0.69 UJ	< 2.8 UJ	< 0.22 U	< 3.5 U	< 0.69 U	< 0.69 UJ	< 0.69 U	< 0.35 UJ	< 2.8 U	< 1.6 U
Carbon Disulfide	60	µg/L	< 0.19 U	< 1.8 U	< 0.19 U	< 0.76 U	< 0.54 U	< 0.95 U	< 0.19 U	< 0.19 UJ	< 0.19 U	< 0.22 U	< 0.76 U	< 1.8 U
Carbon Tetrachloride	5	µg/L	< 0.27 U	< 0.55 U	< 0.27 U	< 1.1 UJ	< 0.47 U	< 1.4 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.18 U	< 1.1 U	< 0.55 U
Chlorobenzene	5	µg/L	< 0.75 U	< 0.56 U	0.75 J	3.3 J	< 0.034 U	< 3.8 U	< 0.75 U	< 0.75 U	< 0.75 U	0.37 J	< 3.0 U	2.5
Chloroethane	5	µg/L	< 0.32 U	< 0.73 U	< 0.32 U	< 1.3 UJ	< 0.20 U	< 1.6 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.36 U	< 1.3 U	0.93 J
Chloroform	7	µg/L	< 0.34 U	< 0.5 U	< 0.34 U	< 1.4 U	< 0.11 U	< 1.7 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.23 U	< 1.4 U	< 0.5 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.35 U	< 0.76 U	< 0.35 U	< 1.4 U	< 0.18 UJ	< 1.8 U	< 0.35 UJ	< 0.35 U	< 0.35 U	< 0.36 UJ	< 1.4 U	< 0.76 U
Cis-1,2-Dichloroethylene	5	µg/L	< 0.81 U	< 0.51 U	< 0.81 U	< 3.2 U	< 0.15 U	< 4.1 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.21 U	< 3.2 U	< 0.51 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.36 U	< 0.47 U	< 0.36 U	< 1.4 U	< 0.11 U	< 1.8 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.17 U	< 1.4 U	< 0.47 U
Cyclohexane	NSL	µg/L	< 0.18 U	< 0.78 U	< 0.18 U	< 0.72 U	< 0.087 U	< 0.9 U	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.13 U	< 0.72 U	< 0.78 U
Dibromochloromethane	50	µg/L	< 0.32 U	< 0.56 U	< 0.32 U	< 1.3 UJ	< 0.17 U	< 1.6 U	< 0.32 U	< 0.32 U	< 0.32 U	< 0.25 U	< 1.3 U	< 0.56 U
Dichlorodifluoromethane	5	µg/L	< 0.68 UJ	< 0.56 U	< 0.68 U	< 2.7 UJ	< 0.10 UJ	< 3.4 UJ	< 0.68 UJ	< 0.68 U	< 0.68 UJ	< 0.17 U	< 2.7 U	< 0.56 U
Ethylbenzene	5	µg/L	< 0.74 U	< 0.6 U	< 0.74 U	< 3.0 U	< 0.13 U	< 3.7 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.19 U	< 3.0 U	< 0.6 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.79 U	< 0.65 U	< 0.79 U	< 3.2 U	< 0.11 U	< 4 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.33 U	< 3.2 U	< 0.65 U
M,P-Xylene (Sum Of Isomers)	NSL	µg/L	NA	< 0.78 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.78 U
Methyl Acetate	NSL	µg/L	< 1.3 UJ	< 0.8 U	< 0.50 U	< 2.0 U	< 10 U	< 2.5 U	< 0.50 U	< 1.3 U	< 1.3 U	< 0.58 UJ	< 5.2 U	< 0.8 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 1.3 U	< 2.7 U	< 1.3 U	< 5.3 U	< 0.77 U	< 6.6 U	< 1.3 U	< 1.3 U	< 1.3 U	< 2.6 U	< 5.3 U	< 2.7 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 2.1 UJ	< 4.9 U	< 2.1 U	< 8.4 U	< 0.16 U	< 11 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.81 U	< 8.4 U	< 4.9 U
Methylcyclohexane	NSL	µg/L	< 0.16 U	< 0.6 U	< 0.16 U	< 0.64 U	< 1.3 U	< 0.8 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.090 U	< 0.64 U	< 0.6 U
Methylene Chloride	5	µg/L	< 0.44 U	< 1 U	< 0.44 U	< 1.8 U	< 0.17 U	< 2.2 U	< 0.44 U	< 0.44 U	< 0.44 U	< 1.0 U	< 1.8 U	< 1 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	NA	< 0.59 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.59 U
Styrene	5	µg/L	< 0.73 U	< 0.49 U	< 0.73 U	< 2.9 U	< 0.12 U	< 3.7 U	< 0.73 U	< 0.73 U	< 0.73 U	< 0.28 U	< 2.9 U	< 0.49 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.16 U	< 0.51 U	< 0.16 U	< 0.64 U	< 0.031 U	< 0.8 U	< 0.16 U	< 0.16 U	< 0.16 U	< 0.17 U	< 0.64 U	< 0.51 U
Tetrachloroethylene (PCE)	5	µg/L	< 0.36 U	< 0.56 U	< 0.36 U	< 1.4 U	< 0.38 UJ	< 1.8 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.14 U	< 1.4 U	< 0.56 U
Toluene	5	µg/L	< 0.51 U	< 0.49 U	< 0.51 U	< 2.0 U	< 0.077 U	< 2.6 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.17 U	< 2.0 U	< 0.49 U
Trans-1,2-Dichloroethene	5	µg/L	< 0.90 U	< 0.54 U	< 0.90 U	< 3.6 U	< 0.075 U	< 4.5 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.23 U	< 3.6 U	< 0.54 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 0.37 U	< 0.43 U	< 0.37 U	< 1.5 U	< 0.14 U	< 1.9 U	< 0.37 U	< 0.37 U	< 0.37 U	< 0.17 U	< 1.5 U	< 0.43 U
Trichloroethylene (TCE)	5	µg/L	< 0.46 U	< 0.53 U	< 0.46 U	< 1.8 U	< 0.080 U	< 2.3 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.20 U	< 1.8 U	< 0.53 U
Trichlorofluoromethane	5	µg/L	< 0.88 U	< 0.4 U	< 0.88 U	< 3.5 UJ	< 0.14 U	< 4.4 U	< 0.88 U	< 0.88 UJ	< 0.88 U	< 0.21 U	< 3.5 U	< 0.4 U
Vinyl Chloride	2	µg/L	< 0.90 U	< 0.52 U	< 0.90 U	< 3.6 U	< 0.12 U	< 4.5 U	< 0.90 UJ	< 0.90 U	< 0.90 U	< 0.18 U	< 3.6 U	< 0.52 U
Xylenes	5	µg/L	< 0.66 U	< 0.59 U	< 0.66 U	< 2.6 U	< 0.065 U	< 3.3 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.58 U	< 2.6 U	< 0.59 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance)
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
NSL = No screening level available.
VOCs = Volatile organic compounds.
Concentrations exceeding the screening level are shaded gray.

Table 2b. Surface Water PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date		NDPWS NDP	NDPWS NDP-WS	NDPWS FD-071311 NDP-WS	NDPWS NDP-WS	NDPWS NDP	NDPWS FD-101613 NDP	NDPWS NDP	NDPWS NDP	NDPWS FD-100715 NDP	NDPWS NDP	NDPWS NDP	NDPWS NDP
		4/20/2010	7/13/2011	7/13/2011	10/18/2012	10/16/2013	10/16/2013	10/15/2014	10/7/2015	10/7/2015	1/24/2017	12/5/2017	10/22/2019
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633)													
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (SW8270)													
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 2b. Surface Water PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date			NDPWS 622017-NDP 9/25/2023	SDPWS SDP 4/20/2010	SDPWS DUP-1 SDPSDP20100420 4/20/2010	SDPWS SDP-WS 7/13/2011	SDPWS SDP-WS 10/18/2012	SDPWS FD-101812 SDPSDP-WS20121018 10/18/2012	SDPWS SDP 10/16/2013	SDPWS SDP 10/15/2014	SDPWS SDP 10/7/2015	SDPWS SDP 1/24/2017	SDPWS SDP 12/5/2017	SDPWS SDP 10/22/2019	SDPWS 622017-SDP 9/25/2023
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633)															
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	< 13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	< 10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	< 16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.4 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	< 6.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.96 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	< 51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.5 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	< 44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.5 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	< 17 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.6 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	< 8.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	< 17 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.6 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	< 13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	< 3.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.56 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	< 6.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.970 J
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	< 27 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	< 4.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.68 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	< 3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.54 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	< 20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	< 9.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	< 1.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	< 2.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.32 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	< 4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.59 U
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	< 4.7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.810 J
Perfluorobutanoic Acid	NSL	ng/L	< 6.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.80 J
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	< 7.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1 U
Perfluorodecanoic acid (PFDA)	NSL	ng/L	< 4.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.65 U
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	< 2.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42 U
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	< 5.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.81 U
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	< 7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1 U
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	< 3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.6
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	< 7.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.60 J
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	< 2.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.6
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	< 10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5 U
Perfluorononanoic acid (PFNA)	NSL	ng/L	< 2.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42 U
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	10 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.960 J
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10
Perfluorooctanoic acid (PFOA)	6.7	ng/L	8.40 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	< 7.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.00 J
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	< 5.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.70 J
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	< 5.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8 U
Perfluorotridecanoic Acid (PFTTriA/PFTTrDA)	NSL	ng/L	< 5.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.83 U
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	< 3.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58 U
1,4-Dioxane (SW8270)															
1,4-Dioxane (P-Dioxane)	0.35	µg/L	0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.08 J

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Gr
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 2b. Surface Water PFAS and 1,4-Dioxane Results

Location ID Sample Name Parent Sample ID Sample Date			SWTR-1EWS SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS FIELD DUP SW SWTR-1E 10/15/2014	SWTR-1EWS SWTR-1E	SWTR-1EWS SWTR-1E	SWTR-1EWS DUP-01 SWTR-1E 1/23/2017	SWTR-1EWS SWTR-1E	SWTR-1EWS DUP-2 SWTR-1E 12/5/2017	SWTR-1EWS SWTR-1E	SWTR-1EWS DUP-SW-01 SWTR-1E 10/21/2019
Analyte			4/20/2010	7/13/2011	10/18/2012	10/16/2013	10/15/2014	10/15/2014	10/7/2015	1/23/2017	1/23/2017	12/5/2017	12/5/2017	10/21/2019	10/21/2019
NYSDEC AWQS ¹			Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Unit															
Result															
PFAS (EPA 1633)															
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic Acid			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)			2.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)			6.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTTriA/PFTTrDA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)			NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (SW8270)															
1,4-Dioxane (P-Dioxane)			0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance)
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

Table 2b. Surface Water PFAS and 1,4-Dioxane Results

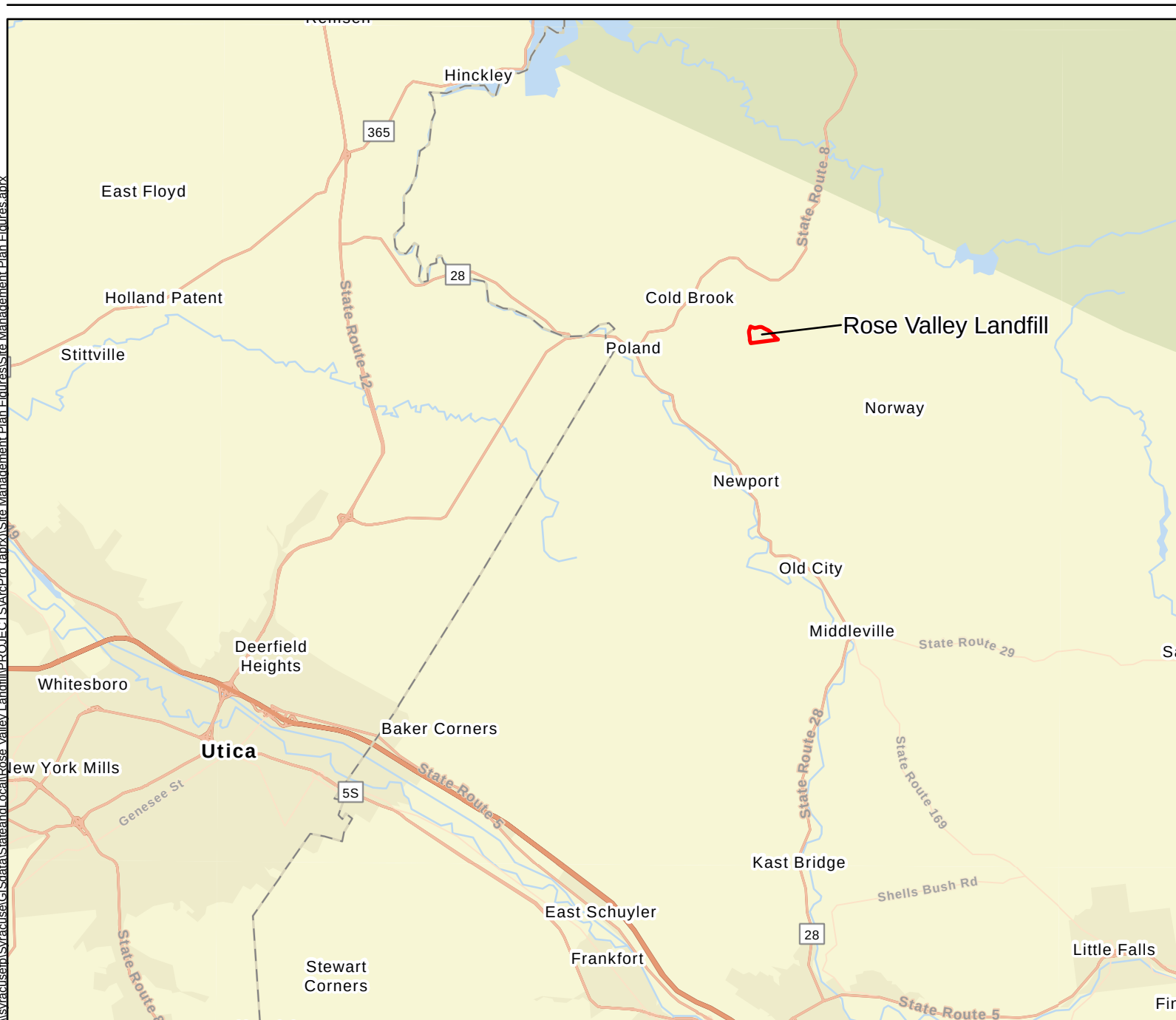
Location ID Sample Name Parent Sample ID Sample Date			SWTR-1EWS 622017-SWTR-1E	SWTR-1TWS SWTR-1T	SWTR-1TWS SWRT-1T	SWTR-1TWS SWTR-1T	SWTR-1TWS SWTR-1T	SWTR-1TWS SWTR-1T	SWTR-1TWS SWTR-1T	SWTR-1TWS SWTR-1T	SWTR-1TWS SWTR-1T	SWTR-1TWS SWTR-1T	SWTR-1TWS 622017-SWTR-1T
Analyte			9/25/2023	4/21/2010	7/13/2011	10/18/2012	10/16/2013	10/15/2014	10/7/2015	1/24/2017	12/5/2017	10/22/2019	9/25/2023
NYSDEC AWQS ¹			Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PFAS (EPA 1633)													
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)			NSL	ng/L	< 1.9 U	NA	NA	NA	NA	NA	NA	NA	< 14 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid			NSL	ng/L	< 1.5 U	NA	NA	NA	NA	NA	NA	NA	< 11 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid			NSL	ng/L	< 2.4 U	NA	NA	NA	NA	NA	NA	NA	< 17 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid			NSL	ng/L	< 0.95 U	NA	NA	NA	NA	NA	NA	NA	< 7 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)			NSL	ng/L	< 7.5 U	NA	NA	NA	NA	NA	NA	NA	< 55 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)			NSL	ng/L	< 6.5 U	NA	NA	NA	NA	NA	NA	NA	< 48 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)			NSL	ng/L	< 2.5 U	NA	NA	NA	NA	NA	NA	NA	< 19 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			NSL	ng/L	< 1.3 U	NA	NA	NA	NA	NA	NA	NA	< 9.5 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)			NSL	ng/L	< 2.6 U	NA	NA	NA	NA	NA	NA	NA	< 19 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)			NSL	ng/L	< 1.9 U	NA	NA	NA	NA	NA	NA	NA	< 14 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)			NSL	ng/L	< 0.56 U	NA	NA	NA	NA	NA	NA	NA	< 4.1 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)			NSL	ng/L	< 0.95 U	NA	NA	NA	NA	NA	NA	NA	50
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)			NSL	ng/L	< 3.9 U	NA	NA	NA	NA	NA	NA	NA	< 29 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)			NSL	ng/L	< 0.67 U	NA	NA	NA	NA	NA	NA	NA	< 4.9 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)			NSL	ng/L	< 0.53 U	NA	NA	NA	NA	NA	NA	NA	20
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)			NSL	ng/L	< 2.9 U	NA	NA	NA	NA	NA	NA	NA	< 21 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			NSL	ng/L	< 1.3 U	NA	NA	NA	NA	NA	NA	NA	< 9.8 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)			NSL	ng/L	< 0.28 U	NA	NA	NA	NA	NA	NA	NA	< 2.1 U
Perfluoro-3-methoxypropanoic acid (PFMPA)			NSL	ng/L	< 0.31 U	NA	NA	NA	NA	NA	NA	NA	< 2.3 U
Perfluoro-4-methoxybutanoic acid (PFMBA)			NSL	ng/L	< 0.59 U	NA	NA	NA	NA	NA	NA	NA	< 4.3 U
Perfluorobutanesulfonic acid (PFBS)			NSL	ng/L	0.940 J	NA	NA	NA	NA	NA	NA	NA	< 5.1 U
Perfluorobutanoic Acid			NSL	ng/L	< 0.97 U	NA	NA	NA	NA	NA	NA	NA	7.90 J
Perfluorodecanesulfonic acid (PFDS)			NSL	ng/L	< 1.1 U	NA	NA	NA	NA	NA	NA	NA	< 8.4 U
Perfluorodecanoic acid (PFDA)			NSL	ng/L	< 0.65 U	NA	NA	NA	NA	NA	NA	NA	< 4.8 U
Perfluorododecanesulfonic acid (PFDoS)			NSL	ng/L	< 0.42 U	NA	NA	NA	NA	NA	NA	NA	< 3.1 U
Perfluorododecanoic acid (PFDoA)			NSL	ng/L	< 0.81 U	NA	NA	NA	NA	NA	NA	NA	< 5.9 U
Perfluoroheptanesulfonic acid (PFHpS)			NSL	ng/L	< 1 U	NA	NA	NA	NA	NA	NA	NA	< 7.5 U
Perfluoroheptanoic acid (PFHpA)			NSL	ng/L	1.20 J	NA	NA	NA	NA	NA	NA	NA	10 J
Perfluorohexanesulfonic acid (PFHxS)			NSL	ng/L	1.80 J	NA	NA	NA	NA	NA	NA	NA	8.60 J
Perfluorohexanoic acid (PFHxA)			NSL	ng/L	0.880 J	NA	NA	NA	NA	NA	NA	NA	9.90 J
Perfluorononanesulfonic Acid (PFNS)			NSL	ng/L	< 1.5 U	NA	NA	NA	NA	NA	NA	NA	< 11 U
Perfluorononanoic acid (PFNA)			NSL	ng/L	< 0.42 U	NA	NA	NA	NA	NA	NA	NA	< 3.1 U
Perfluorooctane Sulfonamide (PFOSA)			NSL	ng/L	< 0.72 U	NA	NA	NA	NA	NA	NA	NA	7.50 J
Perfluorooctanesulfonic acid (PFOS)			2.7	ng/L	5.7	NA	NA	NA	NA	NA	NA	NA	150
Perfluorooctanoic acid (PFOA)			6.7	ng/L	5.1	NA	NA	NA	NA	NA	NA	NA	60
Perfluoropentanesulfonic Acid (PFPeS)			NSL	ng/L	< 1.1 U	NA	NA	NA	NA	NA	NA	NA	< 7.8 U
Perfluoropentanoic Acid (PFPeA)			NSL	ng/L	< 0.77 U	NA	NA	NA	NA	NA	NA	NA	6.70 J
Perfluorotetradecanoic acid (PFTeDA)			NSL	ng/L	< 0.8 U	NA	NA	NA	NA	NA	NA	NA	< 5.8 U
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)			NSL	ng/L	< 0.83 U	NA	NA	NA	NA	NA	NA	NA	< 6.1 U
Perfluoroundecanoic Acid (PFUnA)			NSL	ng/L	< 0.58 U	NA	NA	NA	NA	NA	NA	NA	< 4.2 U
1,4-Dioxane (SW8270)													
1,4-Dioxane (P-Dioxane)			0.35	µg/L	0.16	NA	NA	NA	NA	NA	NA	NA	0.53

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance)
µg/L = Microgram(s) per liter.
J = Concentration is estimated.
U = Analyte not detected.
NA = Not analyzed.
ng/L = Nanogram(s) per liter
NSL = No screening level available.
PFAS = Per- and Polyfluoroalkyl substances.
Concentrations exceeding the screening level are shaded gray.

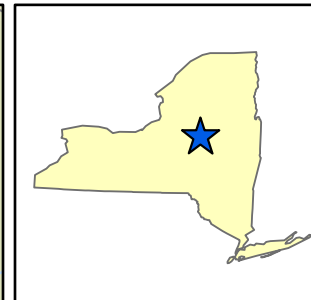
Figures

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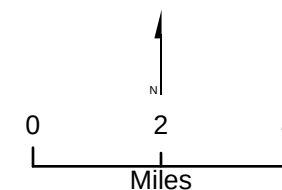


VICINITY MAP



Legend

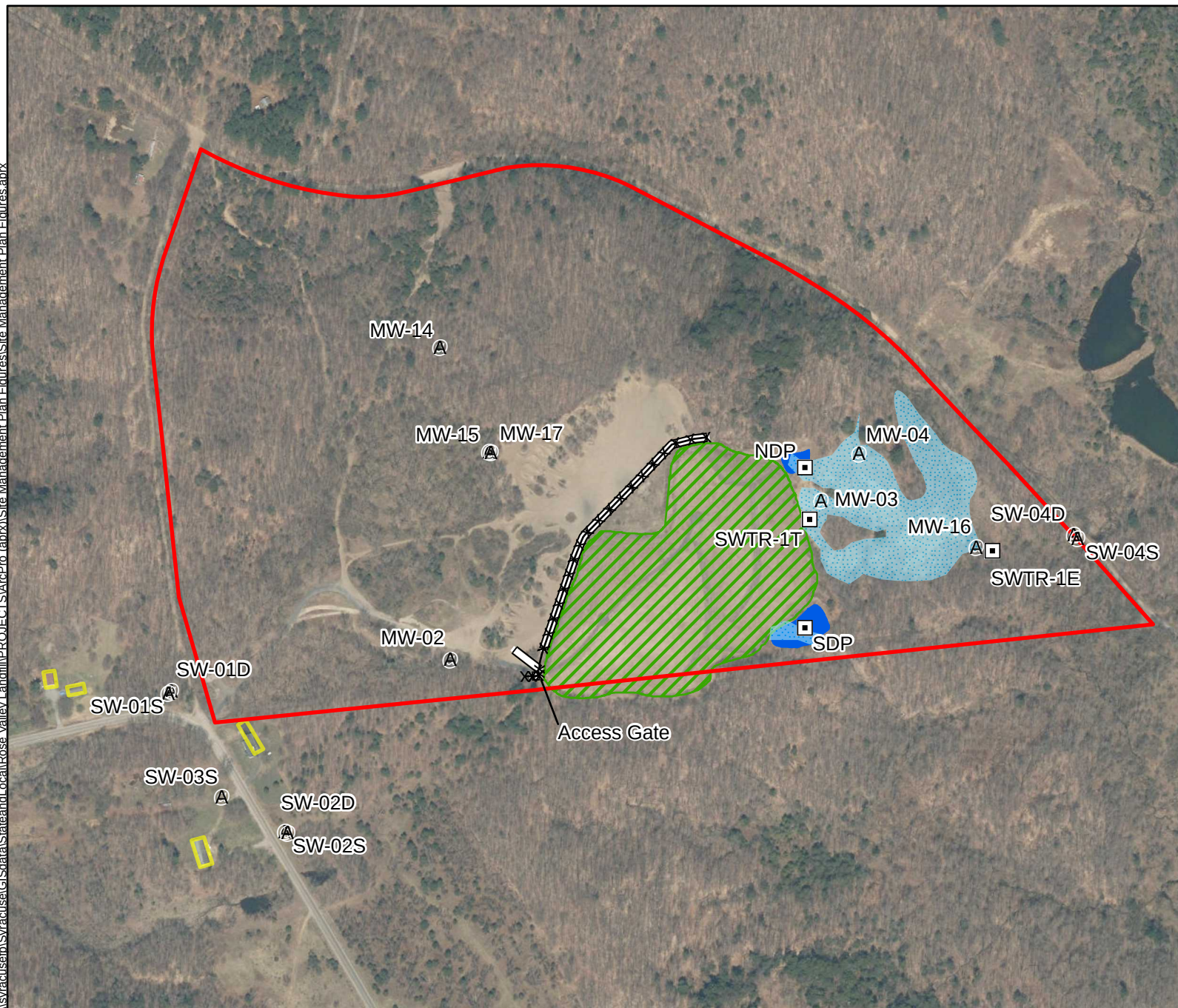
 Site Boundary



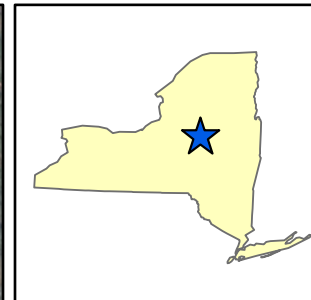
Map Date: 2/16/2024
Projection: NAD 1983 (2011) State Plane
New York East FIPS 3101 (US Feet)



Figure 1
Site Location
Rose Valley Landfill
Russia, New York

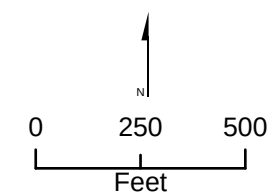


VICINITY MAP



Legend

- ▬ Site Boundary
- ▨ Landfill Cap
- Detention Pond
- ▨ Wetlands
- ▭ Nearby Residences
- X-X Fence
- ▬ Jersey Barrier
- A Groundwater Monitoring Well
- ▣ Surface Water Sampling Location



Map Date: 2/16/2024
Projection: NAD 1983 (2011) State Plane
New York East FIPS 3101 (US Feet)



Figure 2
Site Plan
Rose Valley Landfill
Russia, New York

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MW-04	NYSDEC AWQS	Sampling Event										
Analyte	µg/L	4/21/2010	7/13/2011	10/18/2012	10/16/2013	10/15/2014	10/7/2015	1/24/2017	12/5/2017	10/22/2019	9/7/2021	9/25/2023
1,1-DCA	5	9.3	10	15	11	9.5	11	6.4	6.3	6.1	7.6	7.2
Cis-1,2-DCEe	5	2.3	2.4	3	0.1	1.1	1.5	0.93	0.75	0.88	1.2	1.4

MW-03	NYSDEC AWQS	Sampling Event										
Analyte	µg/L	4/21/2010	7/13/2011	10/18/2012	10/16/2013	10/15/2014	10/7/2015	1/24/2017	12/5/2017	10/22/2019	9/7/2021	9/25/2023
1,1-DCA	5	2.3	2.2	3	1.9	1.6	1.7	6.3	1.4	1.2	0.93	0.85
Cis-1,2-DCEe	5	7.1	8	11	6.6	5.5	6.2	0.92	4.1	4.8	3.7	3.9

VICINITY MAP



Legend

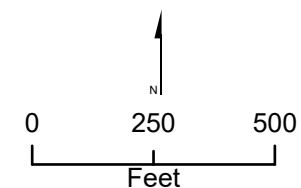
-  Wetlands
-  Groundwater Monitoring Well
-  Surface Water Sampling Location

Notes:

This figure only displays those parameters that were historically detected at least once. Grey highlighted values indicate exceedances of NYSDEC TOGS (1.1.1) Ambient Water Quality Standards (AWQS) Class G criteria. VOC concentrations reported in units of micrograms per liter (µg/L).

ND = non-detect

NS = not sampled for this parameter



Map Date: 5/24/2024
Projection: NAD 1983 (2011) State Plane
New York East FIPS 3101 (US Feet)



Figure 3
Groundwater VOCs
Exceedances 2010 - 2023
Rose Valley Landfill
Russia, New York

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PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctane sulfonic acid

MW-16	Analyte	Units	NYSDEC AWQS	Sampling Event			
				12/5/2017	10/21/2019	9/7/2021	9/25/2023
	1,4-Dioxane	µg/L	0.35	0.28	ND	0.42	0.14
	PFOS	ng/L	2.7	ND	ND	ND	ND
	PFOA	ng/L	6.7	1.3	1.7	1.3	ND

MW-04	Analyte	Units	NYSDEC AWQS	Sampling Event			
				12/5/2017	10/22/2019	9/7/2021	9/25/2023
	1,4-Dioxane	µg/L	0.35	2.9	6.2	4.6	1.12
	PFOS	ng/L	2.7	ND	ND	ND	ND
	PFOA	ng/L	6.7	4.1	6.6	7.7	7.6

NDP	Analyte	Units	NYSDEC AWQS	Sampling Event	
				9/25/2023	
	1,4-Dioxane	µg/L	0.35	0.14	
	PFOS	ng/L	2.7	40	
	PFOA	ng/L	6.7	8.4 J	

MW-03	Analyte	Units	NYSDEC AWQS	Sampling Event			
				12/5/2017	10/22/2019	9/7/2021	9/25/2023
	1,4-Dioxane	µg/L	0.35	0.12	0.34	0.23	0.11
	PFOS	ng/L	2.7	0.53	ND	ND	ND
	PFOA	ng/L	6.7	13	16	18	10

SW-01S	Analyte	Units	NYSDEC AWQS	Sampling Event			
				12/5/2017	10/21/2019	9/7/2021	9/26/2023
	1,4-Dioxane	µg/L	0.35	NS	ND	5.4	ND
	PFOS	ng/L	2.7	NS	ND	ND	ND
	PFOA	ng/L	6.7	NS	25	3.3	3.3

SWTR-1T	Analyte	Units	NYSDEC AWQS	Sampling Event	
				9/25/2023	
	1,4-Dioxane	µg/L	0.35	0.53	
	PFOS	ng/L	2.7	150	
	PFOA	ng/L	6.7	60	

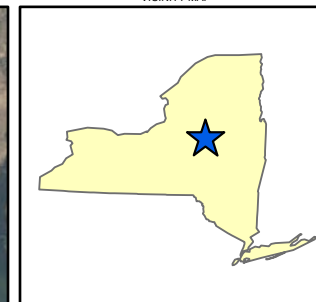
SDP	Analyte	Units	NYSDEC AWQS	Sampling Event	
				9/25/2023	
	1,4-Dioxane	µg/L	0.35	0.08 J	
	PFOS	ng/L	2.7	10	
	PFOA	ng/L	6.7	9.7	

SWTR-1E	Analyte	Units	NYSDEC AWQS	Sampling Event	
				9/25/2023	
	1,4-Dioxane	µg/L	0.35	0.16	
	PFOS	ng/L	2.7	5.7	
	PFOA	ng/L	6.7	5.1	

SW-04S	Analyte	Units	NYSDEC AWQS	Sampling Event			
				12/5/2017	10/21/2019	9/7/2021	9/26/2023
	1,4-Dioxane	µg/L	0.35	0.69	1.4	0.51	0.15
	PFOS	ng/L	2.7	ND	ND	ND	ND
	PFOA	ng/L	6.7	1	1.3	1.6	0.85

SW-03S	Analyte	Units	NYSDEC AWQS	Sampling Event			
				12/6/2017	10/22/2019	9/8/2021	9/26/2023
	1,4-Dioxane	µg/L	0.35	0.69	1.4	0.51	ND
	PFOS	ng/L	2.7	ND	ND	ND	ND
	PFOA	ng/L	6.7	ND	0.82	1	ND

VICINITY MAP



Legend

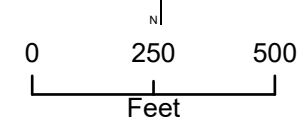
- Wetlands
- Groundwater Monitoring Well
- Surface Water Sampling Location

Notes:

Grey highlighted values indicate exceedances of NYS Ambient Water Quality Standards (AWQS) Council Recommended Screening Levels. VOC and Metals concentrations reported in units of nanograms per liter (ng/L).

ND = non-detect
NS = not sampled for this parameter

PFOA = Perfluorooctanoic acid
PFOS = Perfluorooctanesulfonic acid



Map Date: 5/24/2024
Projection: NAD 1983 (2011) State Plane
New York FIPS 3101 (US Feet)



Figure 4
Emerging Contaminants
Analytical Concentrations
Rose Valley Landfill
Russia, New York

Attachment A

Field forms and DFRs

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Sale Valley (622017) 9/25/23
Weather am: 57F Partly Cloudy, Some rain
pm: 69°F; Sun; 8 mph SE

1. N. Robinson & M. Boyle arrive onsite, wait for rest of EA crew
2. M. Gilkey & C. Derrick arrive onsite and meet to the SW-04 Series
3. EA Begin Calibrating PIDs & Horibus, N. Robinson held Safety briefing
4. Locate all wells on sampling plan
Open SW-04D; well is under pressure artensial; filled up well casing
5. Locate & setup on SW-04S
PID: 110.7 ppm
6. Start purge of SW-04S
7. Bail out well casing; start purge
↳ consistently have to bail out well
Sample SW-04S for VOCs, PFAS & 1,4-Dioxane
8. Sample SW-04D for VOCs
Take SW sample @ SWTR-1E
1. (M) Start purge of MW-16
2. Take SW sample @ SDP
3. Take SW sample @ NDP
4. Take SW sample @ SWTR-1T
5. Sample MW-16 for VOCs, PFAS & 1,4-D

Rose Valley Landfill (622017) 09/25/23
WX: 69 F; Sun; 8 mph SE (pm)

- 1304 Start purge of MW-03
- 1338 Start purge MW-04
- 1355 Sample MW-03 for VOCs, PFAS, & 1,4-Dioxane
- 1438 Sample MW-04 for VOCs, PFAS, & 1,4-Dioxane
- 1530 M. Gilkey, C. Derrick, N. Robinson, & M. Boyle (EA) offsite

M. Gilkey
09.25.2023

Rita in the Rain

Rose Valley Landfill (622017) 9/26/23
54°F; Partly Cloudy; 7 mph E (AM)
M. Gilkey, C. Derrick, & M. Boyle (EA)
onsite
1 Honda & PID calibrated @ office
2 Opened SW-DID w/ 3/8" socket
3 Start purge of SW-015
4 Attempt to purge SW-DID w/
perri pump
↳ attempt failed
5 Sample SW-015 for VOCs, PFAS,
1,4-D (FD-092623) taken here
6 Start purge of SW-DID w/
Grundfos pump
7 Sample SW-DID for VOCs
8 Locate SW-02S & SW-02D
9 PID Reading SW-02S =
PID Reading SW-02D = 38.7 ppm
10 Start purge SW-02S w/perri
11 Sample SW-02S for VOCs, PFAS &
1,4-Dioxane
12 Start purge of SW-02D ~~not~~ w/
Grundfos pump
13 Sample SW-02D for VOCs
14 Start purge of SW-03S
15 Sample SW-03S for VOCs, PFAS,
1,4-Dioxane (MS/MSD)

Rose Valley Landfill (622017) 9.26.23
WX: 64°F; Partly Cloudy; 6 mph ESE (PM)
1500 Start site wide gauging event
1615 Secure all wells & gates
1630 M. Gilkey, C. Derrick, M. Boyle (EA)
offsite

Michael Gilkey
9.26.2023

Rite in the Rain

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: <i>SW-015</i>	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition: <i>Fair</i>	Weather: <i>60's, Sunny</i>
Sounding Method: <i>Solinst w/</i>	Gauge Date: <i>09/26/2023</i>	Measurement Ref: <i>NO</i>
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date: 09/26/2023	Purge Time: 0900
Purge Method: Peristaltic	Field Technician: MB/MG/CD

Well Volume

Well Volume		
A. Well Depth (ft): 18.07	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 20.07	E. Well Volume (gal) C*D):	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: 2'

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):		Sampling Time:	
Samplers: MB/MB/CD		Split Sample With: FD-097623	
Sampling Date: 09/26/23		Sample Type: GRAB	

COMMENTS AND OBSERVATIONS:



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: SW-01D	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDEC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition: Good	Weather:
Sounding Method: Solanist WLM	Gauge Date: 09/26/2023	Measurement Ref: TDIC
Stick Up/Down (ft): ~3.5 ft	Gauge Time:	Well Diameter (in): 2" PVC

Purge Date: 09/26/23	Purge Time: 1010
Purge Method: Low Flow - peristaltic pump	Field Technician: M. Gilkey / M. Boyle / C. Derrick

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) (C*D):	Pump Type: Groundfos Pump
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: ~ mid-screen

Water Quality Parameters

Time (hrs)	Temperature (oC) ✓	pH (pH units) ✓	ORP (mV)	Conductivity (S/m) ✓	Turbidity (ntu) ✓	DO (mg/L) ✓	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1010	10.84	6.45	198	0.183	149	0.57	67.57	0.28	
1015	11.04	6.88	159	0.179	28.4	0.24	67.68		
1020	11.55	7.10	138	0.179	8.3	0.17	67.77		
1025	12.59	7.23	121	0.179	0.0	0.17	67.87		
1030	13.34	7.33	104	0.179	0.0	0.10	67.95		
1035	13.56	7.38	94	0.178	0.0	0.02	68.00		
1040	13.66	7.41	82	0.178	0.0	0.00	68.06		
1045	13.73	7.44	67	0.177	0.0	0.00	68.09		
1050	13.88	7.46	49	0.175	0.0	0.00	68.11		
1055	14.09	7.48	36	0.175	0.0	0.00	68.16		
1100	14.20	7.50	24	0.173	0.0	0.00	68.17		
1105	14.20	7.51	15	0.172	0.0	0.00	68.20		
1110	14.25	7.53	14	0.171	0.0	0.0			

Total Quantity of Water Removed (gal):	Sampling Time: 1110
Samplers:	Split Sample With:
Sampling Date:	Sample Type:

COMMENTS AND OBSERVATIONS:

GROUNDWATER SAMPLING PURGE FORM

GROUNDWATER SAMPLING PURGE FORM		
Well I.D.: SW-02S	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDEC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition: good	Weather: 61°F; Partly Cloudy; 6 mph <
Sounding Method: Solonist WLM	Gauge Date: 09/26/2023	Measurement Ref: TDIC
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in): 2" PVC

Purge Date:	9/26/23	Purge Time:	1142
Purge Method:	Low flow - perri pump	Field Technician:	M. Gilkay / C. Derrick / M. Boyle

Well Volume		
A. Well Depth (ft): 70-72	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 13.06	E. Well Volume (gal) C*D):	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: 2'

[illegible]

Total Quantity of Water Removed (gal):		Sampling Time:	
Samplers: <u>ma/cd/mb</u>		Split Sample With: <u>X</u>	
Sampling Date: <u>02/26/23</u>		Sample Type: <u>GRAB</u>	
COMMENTS AND OBSERVATIONS:			

COMMENTS AND OBSERVATIONS:

SAMPLE ID: ~~622017-1~~ SW-02S
Analysis: VOCs, PFAS, 1,4-D

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: SW-02D	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDEC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition: good	Weather: 61°F, partly cloudy, 6 mph SE
Sounding Method: Solonast WLM	Gauge Date: 09/26/2013	Measurement Ref: TOIC
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in): 2" PVC

Purge Date: 9/26/23	Purge Time: 1230
Purge Method: grundfos	Field Technician: M. Gilkey/C. Derrick/M: Boyle

Well Volume

A. Well Depth (ft): 79.57	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 70.90	E. Well Volume (gal) C*D):	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: 2'

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):		Sampling Time:	
Samplers:	MG/CD/MB	Split Sample With:	1335
Sampling Date:	09/26/23	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-3	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDEC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition: GOOD	Weather: 70's / SUNNY
Sounding Method:	Gauge Date: 09/26/2023	Measurement Ref: YES
Stick Up/Down (ft): STICK UP	Gauge Time:	Well Diameter (in): 2" PVC

Purge Date: 09/25/2023	Purge Time: 1304
Purge Method: PERISTALTIC: LOW FLOW	Field Technician: MB/WZ

Well Volume

A. Well Depth (ft): 17.54	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 3.25	E. Well Volume (gal) C*D):	Pump Type: Permistaltic
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: mid-screen

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	_____	Sampling Time:	_____
Samplers:	_____	Split Sample With:	_____
Sampling Date:	_____	Sample Type:	_____

COMMENTS AND OBSERVATIONS:

COMMENTS AND OBSERVATIONS:
 R DTW NOT RECORDED DURING PURGE DUE TO PFAS

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: <i>DA GW-048</i>	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDEC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition: <i>good</i>	Weather:
Sounding Method:	Gauge Date: <i>09/16/2023</i>	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date: 9/26/23	Purge Time: 1402
Purge Method: low flow perri pump	Field Technician: M. Gilkey/C. Derrick/M. Boyle

Well Volume

A. Well Depth (ft): 8.44'	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 2.04'	E. Well Volume (gal) C*D):	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: 2'

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):		Sampling Time:	1457
Samplers:	MG/CD/MB	Split Sample With:	MS/MSD
Sampling Date:	09/26/23	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:



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GROUNDWATER SAMPLING PURGE FORM

Well ID.: <u>MW-034 (MG)</u>	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDEC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition: (9600)	Weather:
Sounding Method: Solonistwlm	Gauge Date: <u>09/26/2013</u>	Measurement Ref: TOC
Stick Up/Down (ft): 13.5 ft	Gauge Time:	Well Diameter (in): 2" PVC

Purge Date: <u>09/25/23</u>	Purge Time: 1338
Purge Method: Peristaltic Pump	Field Technician: M. Gilkey / N. Derrick

Well Volume

A. Well Depth (ft): <u>17.72</u>	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): <u>2.54</u>	E. Well Volume (gal) C*D):	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: <u>Mid-Screen</u>

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1338	18.13	7.14	-61	0.710	452	1.14	X	0.25	—
1343	15.19	7.22	-73	0.730	288	0.52		0.25	1.25
1348	14.68	7.13	-73	0.747	262	0.43		0.25	2.50
1353	14.48	7.11	-70	0.745	240	0.39		0.25	3.75
1358	14.45	7.07	-60	0.739	224	0.35		0.25	5.00
1403	14.30	7.04	-53	0.734	175	0.32		0.25	6.25
1408	14.24	6.99	-49	0.738	117	0.31		0.25	7.50
1413	14.23	7.00	-46	0.736	127	0.29		0.25	8.75
1418	14.19	6.97	-43	0.737	95.0	0.28		0.25	10.00
1423	14.10	6.95	-41	0.738	60.5	0.27		0.25	11.25
1428	14.17	6.93	-39	0.738	25.7	0.26		0.25	12.50
1433	14.07	6.91	-37	0.737	25.2	0.26		0.25	13.75
1438	14.07	6.88	-35	0.738	26.5	0.25		0.25	15.00

Total Quantity of Water Removed (gal):	Sampling Time: <u>1438</u>
Samplers: <u>MG, C.D.</u>	Split Sample With:
Sampling Date: <u>9/25/23</u>	Sample Type:

COMMENTS AND OBSERVATIONS:

W/L can not be taken during purge due to PFA5 sampling
Sample ID: 622017-MW-03
Analysis: VOL, PFA5, 14-D



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: <u>SW-04S</u>	EA Personnel: <u>M.G. N.R.</u>	Client: <u>NYSDEC</u>
Location: <u>Rose Valley Landfill, Roseton, NY</u>	Well Condition:	Weather:
Sounding Method: <u>Solinst WLA</u>	Gauge Date: <u>09/26/2023</u>	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date: <u>09/25/2023</u>	Purge Time: <u>0928</u>
Purge Method: <u>Perristaltic</u>	Field Technician: <u>M. Galko</u>

Well Volume

A. Well Depth (ft): <u>8.44</u>	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): <u>7.04</u>	E. Well Volume (gal) C*D):	Pump Type: <u>Perristaltic</u>
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: <u>Mid Screen</u>

Water Quality Parameters

Time (hrs)	Temperature (°C)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0929	16.86	6.26	132	0.367	30.9	2.64	*	0.25	—
0932	16.62	6.52	-2	0.338	128	0.62		0.25	0.75
0935	16.41	6.65	-31	0.337	89.5	0.49		0.25	1.50
0938	16.28	6.70	-44	0.335	92.9	0.40		0.25	2.25
0941	16.18	6.75	-51	0.334	88.3	0.50		0.25	3.00
0944	16.11	6.75	-54	0.335	81.0	0.31		0.25	3.75
0947	16.06	6.74	-56	0.338	38.0	0.25		0.25	4.50
0950	16.01	6.75	-58	0.339	19.0	0.22		0.25	5.25
0953	15.99	6.76	-59	0.339	18.4	0.19		0.25	6.00
0956	15.96	6.76	-60	0.341	18.9	0.22		0.25	6.75
0959	15.93	6.79	-65	0.339	18.2	0.15		0.25	7.50
1002	15.93	6.80	-67	0.338	19.3	0.18		0.25	8.25
1005	15.92	6.79	-67	0.337	19.9	0.10		0.25	9.00
1008	15.92	6.81	-70	0.335	21.6	0.05		0.25	9.75
1011	15.93	6.85	-73	0.334	23.9	0.02		0.25	10.50
1014	15.93	6.87	-76	0.333	23.5	0.02		0.25	11.25
1017	15.99	6.88	-78	0.332	22.1	0.08		0.25	12.00

Total Quantity of Water Removed (gal):	Sampling Time:
Samplers:	Split Sample With:
Sampling Date:	Sample Type:

COMMENTS AND OBSERVATIONS:



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GROUNDWATER SAMPLING PURGE FORM

Well ID: SW-04D	EA Personnel: M. Gilkey / M. Boyle	Client: NYSDEC #622017
Location: Rose Valley landfill, Russia NY	Well Condition: Fair	Weather:
Sounding Method: Solanist WUM	Gauge Date: 09/26/2023	Measurement Ref: TOIC
Stick Up/Down (ft): Flush	Gauge Time:	Well Diameter (in): 2" PVC

Purge Date: 09/25/2023	Purge Time: 0957
Purge Method: Low flow perri pump	Field Technician: M. Gilkey / M. Boyle

Well Volume

A. Well Depth (ft): 83.48	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 0.0	E. Well Volume (gal) C*D):	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: Mid-Screen

Water Quality Parameters

Time (hrs)	Temperature (oC) ✓	pH (pH units) ✓	ORP (mV) ✓	Conductivity (S/m) ✓	Turbidity (ntu) ✓	DO (mg/L) ✓	DTW (ft bloc)	Rate (Lpm)	Volume (liters)
0958	13.53	5.98	162	0.197	79.6	0.59	*	0.3	
1001	12.32	6.80	179	0.161	70.5	0.84			
1004	11.88	7.34	32	0.159	65.8	0.76			
1007	11.64	7.74	-14	0.158	67.4	0.71			
1010	11.51	7.98	-45	0.156	73.3	0.68			
1013	11.47	8.18	-69	0.157	64.8	0.64			
1016	11.43	8.25	-79	0.156	62.8	0.62			
1019	11.49	8.38	-94	0.156	60.4	0.58			
1022	11.51	8.50	-107	0.155	57.0	0.55			
1025	11.53	8.65	-122	0.155	48.8	0.51			
1028	11.53	8.79	-135	0.154	42.4	0.51			
1031	11.62	8.97	-150	0.153	39.1	0.45			
1034	11.67	9.00	-152	0.153	46.2	0.44			
1037	12.01	9.16	-170	0.152	24.9	0.39			
1040	12.06	9.20	-173	0.151	21.6	0.39			
1043	12.11	9.22	-176	0.151	19.8	0.39			

Total Quantity of Water Removed (gal):	Sampling Time:
Samplers:	Split Sample With:
Sampling Date:	Sample Type:

COMMENTS AND OBSERVATIONS:

* WUM taken after sampling due to PFAS cross contamination
Well is artesianal; water level @ top of casing
perri pump rate enough to stop well over flow - constant bailing of well casing

Sample ID: 622017-SW-04D
Analysis: VOCs,



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-16	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDEC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition: fair	Weather:
Sounding Method: Solonist WLM	Gauge Date: 09/26/2023	Measurement Ref: TOC
Stick Up/Down (ft): ~3.5 ft	Gauge Time:	Well Diameter (in): 2 in. PVC

Purge Date: 9/25/23	Purge Time: 1122
Purge Method: low flow	Field Technician: M. Gilkey

Well Volume		
A. Well Depth (ft): 11.84	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft): 3.16	E. Well Volume (gal) C*D):	Pump Type: peristaltic pump
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth: mid-screen

Water Quality Parameters									
Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1122	17.41	8.56	-136	0.334	530	0.85	*	0.25	—
1127	16.85	7.80	-142	0.329	146	0.51		0.25	1.25
1132	16.59	7.49	-139	0.327	121	0.44		0.25	2.50
1137	16.44	7.40	-142	0.326	107	0.36		0.25	3.75
1142	14.55	7.32	-141	0.343	663	0.36		0.25	5.00
1147	14.22	7.23	-145	0.354	560	0.33		0.25	6.25
1152	14.07	7.18	-143	0.356	473	0.36		0.25	7.50
1157	14.15	7.16	-136	0.353	296	0.35		0.25	8.75
1202	14.11	7.15	-142	0.362	205	0.34		0.25	10.00
1207	14.15	7.17	-144	0.361	141	0.33		0.25	11.25
1212	14.18	7.16	-144	0.361	118	0.32		0.25	12.50
1217	14.22	7.18	-145	0.362	87.2	0.31		0.25	13.75
1222	14.26	7.19	-146	0.363	75.7	0.27		0.25	15.00
1227	14.30	7.21	-149	0.362	33.2	0.26		0.25	16.25
1232	14.46	7.23	-150	0.361	26.3	0.25		0.25	17.50
1237	14.57	7.22	-149	0.360	21.1	0.24		0.25	18.75
1242	14.62	7.22	-149	0.359	20.5	0.23		0.25	20.00

Total Quantity of Water Removed (gal):	Sampling Time: 1242
Samplers: M.G. N.R.	Split Sample With: X
Sampling Date: 9/25/23	Sample Type: GRAB

COMMENTS AND OBSERVATIONS: *** Water level not measured due to PFAS sampling**

Sample ID: **622017-MW-16**

Analysis: **VOCS, PFAS, 1,4-D**

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: SWTR-1E	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDEC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition:	Weather:
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	Purge Time:
Purge Method:	Field Technician:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth:

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	_____	Sampling Time:	1113
Samplers:	_____	Split Sample With:	_____
Sampling Date:	_____	Sample Type:	_____

COMMENTS AND OBSERVATIONS:

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: JDP	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDEC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition:	Weather:
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	Purge Time:
Purge Method:	Field Technician:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth:

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	_____	Sampling Time:	_____
Samplers:	_____	Split Sample With:	_____
Sampling Date:	_____	Sample Type:	_____

COMMENTS AND OBSERVATIONS:

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: <i>NIDP</i>	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDEC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition:	Weather:
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	Purge Time:
Purge Method:	Field Technician:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth:

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	_____	Sampling Time:	1210
Samplers:	_____	Split Sample With:	_____
Sampling Date:	_____	Sample Type:	_____

COMMENTS AND OBSERVATIONS:

GROUNDWATER SAMPLING PURGE FORM

Well ID.: SWTR 1T	EA Personnel: M. Gilkey / N. Robinson	Client: NYSDEC NYSDEC #622017
Location: Rose Valley Landfill, Russia, NY	Well Condition:	Weather:
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	Purge Time:
Purge Method:	Field Technician:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth:

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	_____	Sampling Time:	_____
Samplers:	_____	Split Sample With:	_____
Sampling Date:	_____	Sample Type:	_____

COMMENTS AND OBSERVATIONS:

MONITORING WELL GAUGING LOG

Inspector(s): N. Robinson, M. Gilkey

Weather Conditions: 67F, Sunny, 9mph SE

Site Name: Rose Valley Landfill

Date/Time: 09/26/2023; 1540

[illegible]

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FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	9/26/23
TIME:	8:25
METER ID:	21101

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	3.68	4.03

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.02	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU		0.2

COMMENTS

00	10.12	to 9.00

SIGNATURE



FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	09/25/2025
TIME:	0821
METER ID:	25335

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	0821 5.21 <i>(MB)</i>	~~5.21~~ 4.0 <i>(MB)</i>

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.71	4.41

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

SIGNATURE



FIELD CALIBRATION FORM

Site Name:

INSTRUMENT: Honeywell ³⁰⁰⁰⁺ MiniRAE	INSTRUMENT ID No: 51211
OPERATOR: Moriah Gulkey	WEATHER:
SPAN GAS TYPE: Isobutylene	DATE: 09/15/23
CALIBRATION NOTES:	
zero cal: 0.0 ppm	
span: 99.9 ppm	
COMMENTS:	
SIGNATURE:	DATE: 09/15/23

FIELD CALIBRATION FORM

Site Name:

INSTRUMENT: ^{T3000} Honeywell miniRAE	INSTRUMENT ID No: 045158
OPERATOR: m. Gilkey	WEATHER:
SPAN GAS TYPE: Isobutylene	DATE: 09/28/23
CALIBRATION NOTES:	
zero Cal : 0.0 ppm	
Span Cal : 100.0 ppm	
COMMENTS:	
SIGNATURE:	DATE: 09/28/23

Attachment B

Laboratory Summary Report

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The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EA Engineering

NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

160253410013

SGS Job Number: JD73734

Sampling Dates: 09/25/23 - 09/26/23

Report to:

EA Engineering
269 West Jefferson Street
Syracuse, NY 13202
nrobinson@eaest.com; joliver@eaest.com;
kcassidy@eaest.com
ATTN: Noah Robinson

Total number of pages in report: **76**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

EA Engineering

Job No: JD73734

NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Project No: 160253410013

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

JD73734-1	09/25/23	13:55	MG	09/27/23	AQ	Ground Water	622017-MW-03
JD73734-2	09/25/23	14:38	MG	09/27/23	AQ	Ground Water	622017-MW-04
JD73734-3	09/25/23	12:42	MG	09/27/23	AQ	Ground Water	622017-MW-16
JD73734-4	09/26/23	09:33	MG	09/27/23	AQ	Ground Water	622017-SW-01S
JD73734-5	09/26/23	12:12	MG	09/27/23	AQ	Ground Water	622017-SW-02S
JD73734-6	09/26/23	14:57	MG	09/27/23	AQ	Ground Water	622017-SW-03S
JD73734-6D	09/26/23	14:57	MG	09/27/23	AQ	Water Dup/MSD	622017-SW-03S
JD73734-6S	09/26/23	14:57	MG	09/27/23	AQ	Water Matrix Spike	622017-SW-03S
JD73734-7	09/25/23	10:29	MG	09/27/23	AQ	Ground Water	622017-SW-04S
JD73734-8	09/25/23	12:15	MG	09/27/23	AQ	Surface Water	622017-WDP
JD73734-9	09/25/23	11:35	MG	09/27/23	AQ	Surface Water	622017-SDP
JD73734-10	09/25/23	11:55	MG	09/27/23	AQ	Surface Water	622017-SWTR-1T



Sample Summary
(continued)

EA Engineering

Job No: JD73734

NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY
Project No: 160253410013

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD73734-11	09/25/23	11:13 MG	09/27/23	AQ	Surface Water	622017-SWTR-1E
JD73734-12	09/26/23	00:00 MG	09/27/23	AQ	Ground Water	622017-FD-092623
JD73734-13	09/25/23	15:00 MG	09/27/23	AQ	Field Blank Water	622017-FB-01
JD73734-14	09/26/23	13:00 MG	09/27/23	AQ	Field Blank Water	622017-FB-02
JD73734-15	09/26/23	16:00 MG	09/27/23	AQ	Equipment Blank	622017-EB-01

Summary of Hits

Page 1 of 3

Job Number: JD73734**Account:** EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY**Collected:** 09/25/23 thru 09/26/23

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD73734-1 622017-MW-03

Perfluorobutanoic acid	0.0030 J	0.0079	0.00092	ug/l	EPA DRAFT 1633
Perfluoropentanoic acid	0.0023 J	0.0040	0.00072	ug/l	EPA DRAFT 1633
Perfluorohexanoic acid	0.0043	0.0020	0.00029	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid	0.0048	0.0020	0.00049	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid	0.0109	0.0020	0.00074	ug/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid	0.0037	0.0020	0.00065	ug/l	EPA DRAFT 1633
Perfluoropentanesulfonic acid	0.0051	0.0020	0.0010	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid	0.0092	0.0020	0.0011	ug/l	EPA DRAFT 1633

JD73734-2 622017-MW-04

Perfluorobutanoic acid	0.0023 J	0.0080	0.00092	ug/l	EPA DRAFT 1633
Perfluoropentanoic acid	0.0017 J	0.0040	0.00073	ug/l	EPA DRAFT 1633
Perfluorohexanoic acid	0.0019 J	0.0020	0.00029	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid	0.0021	0.0020	0.00050	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid	0.0076	0.0020	0.00075	ug/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid	0.00091 J	0.0020	0.00066	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid	0.0015 J	0.0020	0.0011	ug/l	EPA DRAFT 1633

JD73734-3 622017-MW-16

Perfluorohexanoic acid	0.00048 J	0.0019	0.00028	ug/l	EPA DRAFT 1633
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JD73734-4 622017-SW-01S

Perfluorooctanoic acid	0.0033	0.0020	0.00075	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid	0.0015 J	0.0020	0.0011	ug/l	EPA DRAFT 1633

JD73734-5 622017-SW-02S

No hits reported in this sample.

JD73734-6 622017-SW-03S

Perfluorobutanoic acid	0.0016 J	0.0078	0.00091	ug/l	EPA DRAFT 1633
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JD73734-7 622017-SW-04S

Perfluoropentanoic acid	0.0011 J	0.0040	0.00072	ug/l	EPA DRAFT 1633
Perfluorohexanoic acid	0.00042 J	0.0020	0.00029	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid	0.00085 J	0.0020	0.00074	ug/l	EPA DRAFT 1633

Summary of Hits

Job Number: JD73734

Account: EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Collected: 09/25/23 thru 09/26/23

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD73734-8 622017-WDP						
Perfluorooctanoic acid		0.0084 J	0.014	0.0054	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		0.0430	0.014	0.0031	ug/l	EPA DRAFT 1633
PFOSA		0.0111 J	0.014	0.0049	ug/l	EPA DRAFT 1633
JD73734-9 622017-SDP						
Perfluorobutanoic acid		0.0028 J	0.0084	0.00098	ug/l	EPA DRAFT 1633
Perfluoropentanoic acid		0.0017 J	0.0042	0.00077	ug/l	EPA DRAFT 1633
Perfluorohexanoic acid		0.0026	0.0021	0.00031	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid		0.0026	0.0021	0.00053	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid		0.0097	0.0021	0.00079	ug/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid		0.00081 J	0.0021	0.00070	ug/l	EPA DRAFT 1633
Perfluoropentanesulfonic acid		0.0020 J	0.0021	0.0011	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid		0.0016 J	0.0021	0.0012	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		0.0125	0.0021	0.00045	ug/l	EPA DRAFT 1633
PFOSA		0.00096 J	0.0021	0.00073	ug/l	EPA DRAFT 1633
EtFOSAA		0.00097 J	0.0021	0.00096	ug/l	EPA DRAFT 1633
JD73734-10 622017-SWTR-1T						
Perfluorobutanoic acid		0.0079 J	0.062	0.0072	ug/l	EPA DRAFT 1633
Perfluoropentanoic acid		0.0067 J	0.031	0.0056	ug/l	EPA DRAFT 1633
Perfluorohexanoic acid		0.0099 J	0.015	0.0022	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid		0.0135 J	0.015	0.0038	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid		0.0617	0.015	0.0058	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid		0.0086 J	0.015	0.0085	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		0.154	0.015	0.0033	ug/l	EPA DRAFT 1633
PFOSA		0.0075 J	0.015	0.0053	ug/l	EPA DRAFT 1633
MeFOSAA		0.0275	0.015	0.0039	ug/l	EPA DRAFT 1633
EtFOSAA		0.0598	0.015	0.0070	ug/l	EPA DRAFT 1633
JD73734-11 622017-SWTR-1E						
Perfluorohexanoic acid		0.00088 J	0.0021	0.00030	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid		0.0012 J	0.0021	0.00052	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid		0.0051	0.0021	0.00079	ug/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid		0.00094 J	0.0021	0.00069	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid		0.0018 J	0.0021	0.0012	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		0.0057	0.0021	0.00045	ug/l	EPA DRAFT 1633
JD73734-12 622017-FD-092623						
Perfluoroheptanoic acid		0.0011 J	0.0020	0.00050	ug/l	EPA DRAFT 1633

Summary of Hits

Job Number: JD73734
Account: EA Engineering
Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY
Collected: 09/25/23 thru 09/26/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						
Perfluorooctanoic acid		0.0034	0.0020	0.00075	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid		0.0019 J	0.0020	0.0011	ug/l	EPA DRAFT 1633

JD73734-13 622017-FB-01

No hits reported in this sample.

JD73734-14 622017-FB-02

No hits reported in this sample.

JD73734-15 622017-EB-01

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	622017-MW-03	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-1	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4108.D	1	10/06/23 00:39	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	506 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.0030	0.0079	0.00092	ug/l	J
2706-90-3	Perfluoropentanoic acid	0.0023	0.0040	0.00072	ug/l	J
307-24-4	Perfluorohexanoic acid	0.0043	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0048	0.0020	0.00049	ug/l	
335-67-1	Perfluorooctanoic acid	0.0109	0.0020	0.00074	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00061	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00054	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00076	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00078	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00075	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0037	0.0020	0.00065	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	0.0051	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0092	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00097	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00042	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0079	0.0022	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0079	0.00090	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0079	0.0014	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0020	0.00068	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00063	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00052	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-03	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-1	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
---------	----------	--------	----	-----	-------	---

PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0020	0.00050	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00090	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.020	0.0027	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0037	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0079	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0079	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00055	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0079	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0079	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0099	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.049	0.0070	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.049	0.0061	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	95%		5-130%
	13C5-PFPeA	102%		40-130%
	13C5-PFHxA	97%		40-130%
	13C4-PFHpA	99%		40-130%
	13C8-PFOA	107%		40-130%
	13C9-PFNA	112%		40-130%
	13C6-PFDA	104%		40-130%
	13C7-PFUnDA	113%		30-130%
	13C2-PFDoDA	104%		10-130%
	13C2-PFTeDA	97%		10-130%
	13C3-PFBS	109%		40-135%
	13C3-PFHxS	110%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-03	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-1	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	119%		40-130%
	13C8-FOSA	104%		40-130%
	d3-MeFOSA	78%		10-130%
	d5-EtFOSA	86%		10-130%
	d3-MeFOSAA	104%		40-170%
	d5-EtFOSAA	96%		25-135%
	d7-MeFOSE	95%		10-130%
	d9-EtFOSE	97%		10-130%
	13C2-4:2FTS	132%		40-200%
	13C2-6:2FTS	106%		40-200%
	13C2-8:2FTS	106%		40-300%
	13C3-HFPO-DA	100%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-04	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-2	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4111.D	1	10/06/23 00:54	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	503 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.0023	0.0080	0.00092	ug/l	J
2706-90-3	Perfluoropentanoic acid	0.0017	0.0040	0.00073	ug/l	J
307-24-4	Perfluorohexanoic acid	0.0019	0.0020	0.00029	ug/l	J
375-85-9	Perfluoroheptanoic acid	0.0021	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	0.0076	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.00091	0.0020	0.00066	ug/l	J
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0015	0.0020	0.0011	ug/l	J
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00097	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0022	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00090	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0014	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-04	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-2	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00090	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0037	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0099	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0061	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	95%		5-130%
	13C5-PFPeA	112%		40-130%
	13C5-PFHxA	115%		40-130%
	13C4-PFHpA	113%		40-130%
	13C8-PFOA	128%		40-130%
	13C9-PFNA	94%		40-130%
	13C6-PFDA	92%		40-130%
	13C7-PFUnDA	102%		30-130%
	13C2-PFDoDA	97%		10-130%
	13C2-PFTeDA	88%		10-130%
	13C3-PFBS	97%		40-135%
	13C3-PFHxS	118%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-04	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-2	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	108%		40-130%
	13C8-FOSA	95%		40-130%
	d3-MeFOSA	74%		10-130%
	d5-EtFOSA	73%		10-130%
	d3-MeFOSAA	100%		40-170%
	d5-EtFOSAA	91%		25-135%
	d7-MeFOSE	85%		10-130%
	d9-EtFOSE	88%		10-130%
	13C2-4:2FTS	96%		40-200%
	13C2-6:2FTS	111%		40-200%
	13C2-8:2FTS	98%		40-300%
	13C3-HFPO-DA	121%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-16	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-3	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4112.D	1	10/06/23 01:09	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	513 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0078	0.00091	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0039	0.00071	ug/l	
307-24-4	Perfluorohexanoic acid	0.00048	0.0019	0.00028	ug/l	J
375-85-9	Perfluoroheptanoic acid	ND	0.0019	0.00049	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0019	0.00073	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	0.00039	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00060	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00054	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00075	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00074	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0019	0.00064	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0019	0.00098	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0019	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00096	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0019	0.00042	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.00039	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0078	0.0022	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0078	0.00089	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0078	0.0014	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0019	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00062	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00052	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-16	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-3	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0019	0.00050	ug/l	
2991-50-6	EtFOSAA	ND	0.0019	0.00089	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.019	0.0027	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0037	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0078	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0078	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0039	0.00029	ug/l	
863090-89-5	PFMBA	ND	0.0039	0.00055	ug/l	
151772-58-6	NFDHA	ND	0.0039	0.0012	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0078	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0078	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0039	0.00026	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0097	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.049	0.0069	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.049	0.0060	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	101%		5-130%
	13C5-PFPeA	106%		40-130%
	13C5-PFHxA	107%		40-130%
	13C4-PFHpA	105%		40-130%
	13C8-PFOA	109%		40-130%
	13C9-PFNA	111%		40-130%
	13C6-PFDA	97%		40-130%
	13C7-PFUnDA	98%		30-130%
	13C2-PFDoDA	83%		10-130%
	13C2-PFTeDA	83%		10-130%
	13C3-PFBS	101%		40-135%
	13C3-PFHxS	109%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-16	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-3	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	91%		40-130%
	13C8-FOSA	96%		40-130%
	d3-MeFOSA	74%		10-130%
	d5-EtFOSA	80%		10-130%
	d3-MeFOSAA	90%		40-170%
	d5-EtFOSAA	87%		25-135%
	d7-MeFOSE	89%		10-130%
	d9-EtFOSE	87%		10-130%
	13C2-4:2FTS	102%		40-200%
	13C2-6:2FTS	116%		40-200%
	13C2-8:2FTS	95%		40-300%
	13C3-HFPO-DA	108%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-01S	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-4	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4113.D	1	10/06/23 01:24	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	502 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	0.0033	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0015	0.0020	0.0011	ug/l	J
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0022	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0014	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-01S	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-4	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0037	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	103%		5-130%
	13C5-PFPeA	107%		40-130%
	13C5-PFHxA	106%		40-130%
	13C4-PFHpA	102%		40-130%
	13C8-PFOA	105%		40-130%
	13C9-PFNA	106%		40-130%
	13C6-PFDA	113%		40-130%
	13C7-PFUnDA	115%		30-130%
	13C2-PFDoDA	107%		10-130%
	13C2-PFTeDA	90%		10-130%
	13C3-PFBS	117%		40-135%
	13C3-PFHxS	119%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-01S	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-4	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	106%		40-130%
	13C8-FOSA	94%		40-130%
	d3-MeFOSA	76%		10-130%
	d5-EtFOSA	80%		10-130%
	d3-MeFOSAA	96%		40-170%
	d5-EtFOSAA	89%		25-135%
	d7-MeFOSE	89%		10-130%
	d9-EtFOSE	90%		10-130%
	13C2-4:2FTS	100%		40-200%
	13C2-6:2FTS	114%		40-200%
	13C2-8:2FTS	101%		40-300%
	13C3-HFPO-DA	109%		40-130%

ND = Not detectedMDL = Method Detection LimitJ = Indicates an estimated value

RL = Reporting LimitB = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration rangeN = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-02S	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-5	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4114.D	1	10/06/23 01:39	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	434 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0092	0.0011	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0046	0.00084	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0023	0.00033	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0023	0.00058	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0023	0.00086	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0023	0.00046	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0023	0.00071	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0023	0.00063	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0023	0.00089	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0023	0.00091	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0023	0.00088	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0023	0.00076	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0023	0.0012	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0023	0.0013	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0023	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0023	0.00050	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0023	0.0017	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0023	0.0013	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0023	0.00046	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0092	0.0026	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0092	0.0010	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0092	0.0017	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0023	0.00079	ug/l	
31506-32-8	MeFOSA	ND	0.0023	0.00074	ug/l	
4151-50-2	EtFOSA	ND	0.0023	0.00061	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-02S	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-5	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0023	0.00059	ug/l	
2991-50-6	EtFOSAA	ND	0.0023	0.0010	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.023	0.0032	ug/l	
1691-99-2	EtFOSE	ND	0.023	0.0043	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0092	0.0021	ug/l	
919005-14-4	ADONA	ND	0.0092	0.0014	ug/l	
377-73-1	PFMPA	ND	0.0046	0.00035	ug/l	
863090-89-5	PFMBA	ND	0.0046	0.00065	ug/l	
151772-58-6	NFDHA	ND	0.0046	0.0015	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0092	0.0028	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0092	0.0021	ug/l	
113507-82-7	PFEESA	ND	0.0046	0.00031	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.012	0.0028	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.058	0.0082	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.058	0.0071	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	83%		5-130%
	13C5-PFPeA	107%		40-130%
	13C5-PFHxA	103%		40-130%
	13C4-PFHpA	107%		40-130%
	13C8-PFOA	115%		40-130%
	13C9-PFNA	116%		40-130%
	13C6-PFDA	112%		40-130%
	13C7-PFUnDA	114%		30-130%
	13C2-PFDoDA	97%		10-130%
	13C2-PFTeDA	99%		10-130%
	13C3-PFBS	111%		40-135%
	13C3-PFHxS	98%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-02S	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-5	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	95%		40-130%
	13C8-FOSA	87%		40-130%
	d3-MeFOSA	72%		10-130%
	d5-EtFOSA	76%		10-130%
	d3-MeFOSAA	88%		40-170%
	d5-EtFOSAA	88%		25-135%
	d7-MeFOSE	87%		10-130%
	d9-EtFOSE	88%		10-130%
	13C2-4:2FTS	107%		40-200%
	13C2-6:2FTS	88%		40-200%
	13C2-8:2FTS	117%		40-300%
	13C3-HFPO-DA	110%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-03S	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-6	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4115.D	1	10/06/23 01:54	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	512 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.0016	0.0078	0.00091	ug/l	J
2706-90-3	Perfluoropentanoic acid	ND	0.0039	0.00071	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00028	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00049	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00073	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00039	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00061	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00054	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00075	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00074	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00064	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.00099	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00096	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00042	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00039	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0078	0.0022	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0078	0.00089	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0078	0.0014	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0020	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00063	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00052	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-03S	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-6	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0020	0.00050	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00089	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.020	0.0027	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0037	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0078	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0078	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0039	0.00029	ug/l	
863090-89-5	PFMBA	ND	0.0039	0.00055	ug/l	
151772-58-6	NFDHA	ND	0.0039	0.0013	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0078	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0078	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0039	0.00026	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0098	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.049	0.0070	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.049	0.0060	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	84%		5-130%
	13C5-PFPeA	110%		40-130%
	13C5-PFHxA	107%		40-130%
	13C4-PFHpA	104%		40-130%
	13C8-PFOA	118%		40-130%
	13C9-PFNA	109%		40-130%
	13C6-PFDA	106%		40-130%
	13C7-PFUnDA	115%		30-130%
	13C2-PFDoDA	102%		10-130%
	13C2-PFTeDA	99%		10-130%
	13C3-PFBS	101%		40-135%
	13C3-PFHxS	102%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-03S	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-6	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	93%		40-130%
	13C8-FOSA	98%		40-130%
	d3-MeFOSA	84%		10-130%
	d5-EtFOSA	86%		10-130%
	d3-MeFOSAA	104%		40-170%
	d5-EtFOSAA	104%		25-135%
	d7-MeFOSE	98%		10-130%
	d9-EtFOSE	96%		10-130%
	13C2-4:2FTS	81%		40-200%
	13C2-6:2FTS	116%		40-200%
	13C2-8:2FTS	99%		40-300%
	13C3-HFPO-DA	114%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-04S	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-7	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4116.D	1	10/06/23 02:09	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	506 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0079	0.00092	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0011	0.0040	0.00072	ug/l	J
307-24-4	Perfluorohexanoic acid	0.00042	0.0020	0.00029	ug/l	J
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00049	ug/l	
335-67-1	Perfluorooctanoic acid	0.00085	0.0020	0.00074	ug/l	J
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00061	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00054	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00076	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00078	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00075	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00065	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00097	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00042	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0079	0.0022	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0079	0.00090	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0079	0.0014	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0020	0.00068	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00063	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00052	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-04S	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-7	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0020	0.00050	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00090	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.020	0.0027	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0037	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0079	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0079	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00055	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0079	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0079	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0099	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.049	0.0070	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.049	0.0061	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	99%		5-130%
	13C5-PFPeA	108%		40-130%
	13C5-PFHxA	109%		40-130%
	13C4-PFHpA	103%		40-130%
	13C8-PFOA	102%		40-130%
	13C9-PFNA	113%		40-130%
	13C6-PFDA	96%		40-130%
	13C7-PFUnDA	87%		30-130%
	13C2-PFDoDA	81%		10-130%
	13C2-PFTeDA	79%		10-130%
	13C3-PFBS	115%		40-135%
	13C3-PFHxS	123%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-04S	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-7	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	104%		40-130%
	13C8-FOSA	107%		40-130%
	d3-MeFOSA	79%		10-130%
	d5-EtFOSA	84%		10-130%
	d3-MeFOSAA	96%		40-170%
	d5-EtFOSAA	89%		25-135%
	d7-MeFOSE	94%		10-130%
	d9-EtFOSE	93%		10-130%
	13C2-4:2FTS	96%		40-200%
	13C2-6:2FTS	122%		40-200%
	13C2-8:2FTS	111%		40-300%
	13C3-HFPO-DA	112%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-WDP	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-8	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4120.D	1	10/06/23 03:09	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	70.0 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.057	0.0066	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.029	0.0052	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.014	0.0021	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.014	0.0036	ug/l	
335-67-1	Perfluorooctanoic acid	0.0084	0.014	0.0054	ug/l	J
375-95-1	Perfluorononanoic acid	ND	0.014	0.0029	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.014	0.0044	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.014	0.0039	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.014	0.0055	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.014	0.0056	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.014	0.0054	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.014	0.0047	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.014	0.0072	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.014	0.0079	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.014	0.0070	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0430	0.014	0.0031	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.014	0.010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.014	0.0078	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.014	0.0029	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.057	0.016	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.057	0.0065	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.057	0.010	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	0.0111	0.014	0.0049	ug/l	J
31506-32-8	MeFOSA	ND	0.014	0.0046	ug/l	
4151-50-2	EtFOSA	ND	0.014	0.0038	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-WDP		
Lab Sample ID:	JD73734-8	Date Sampled:	09/25/23
Matrix:	AQ - Surface Water	Date Received:	09/27/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.014	0.0036	ug/l	
2991-50-6	EtFOSAA	ND	0.014	0.0065	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.14	0.020	ug/l	
1691-99-2	EtFOSE	ND	0.14	0.027	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.057	0.013	ug/l	
919005-14-4	ADONA	ND	0.057	0.0088	ug/l	
377-73-1	PFMPA	ND	0.029	0.0021	ug/l	
863090-89-5	PFMBA	ND	0.029	0.0040	ug/l	
151772-58-6	NFDHA	ND	0.029	0.0091	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.057	0.017	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.057	0.013	ug/l	
113507-82-7	PFEESA	ND	0.029	0.0019	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.071	0.017	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.36	0.051	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.36	0.044	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	109%		5-130%
	13C5-PFPeA	112%		40-130%
	13C5-PFHxA	112%		40-130%
	13C4-PFHpA	111%		40-130%
	13C8-PFOA	102%		40-130%
	13C9-PFNA	93%		40-130%
	13C6-PFDA	104%		40-130%
	13C7-PFUnDA	96%		30-130%
	13C2-PFDoDA	80%		10-130%
	13C2-PFTeDA	78%		10-130%
	13C3-PFBS	99%		40-135%
	13C3-PFHxS	102%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-WDP	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-8	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	96%		40-130%
	13C8-FOSA	94%		40-130%
	d3-MeFOSA	83%		10-130%
	d5-EtFOSA	89%		10-130%
	d3-MeFOSAA	92%		40-170%
	d5-EtFOSAA	97%		25-135%
	d7-MeFOSE	84%		10-130%
	d9-EtFOSE	81%		10-130%
	13C2-4:2FTS	94%		40-200%
	13C2-6:2FTS	89%		40-200%
	13C2-8:2FTS	85%		40-300%
	13C3-HFPO-DA	110%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SDP	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-9	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4121.D	1	10/06/23 03:24	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	474 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.0028	0.0084	0.00098	ug/l	J
2706-90-3	Perfluoropentanoic acid	0.0017	0.0042	0.00077	ug/l	J
307-24-4	Perfluorohexanoic acid	0.0026	0.0021	0.00031	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0026	0.0021	0.00053	ug/l	
335-67-1	Perfluorooctanoic acid	0.0097	0.0021	0.00079	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0021	0.00042	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0021	0.00065	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0021	0.00058	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0021	0.00081	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0021	0.00083	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0021	0.00080	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.00081	0.0021	0.00070	ug/l	J
2706-91-4	Perfluoropentanesulfonic acid	0.0020	0.0021	0.0011	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.0016	0.0021	0.0012	ug/l	J
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0021	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0125	0.0021	0.00045	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0021	0.0015	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0021	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0021	0.00042	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0084	0.0024	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0084	0.00096	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0084	0.0015	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	0.00096	0.0021	0.00073	ug/l	J
31506-32-8	MeFOSA	ND	0.0021	0.00068	ug/l	
4151-50-2	EtFOSA	ND	0.0021	0.00056	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SDP		
Lab Sample ID:	JD73734-9	Date Sampled:	09/25/23
Matrix:	AQ - Surface Water	Date Received:	09/27/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0021	0.00054	ug/l	
2991-50-6	EtFOSAA	0.00097	0.0021	0.00096	ug/l	J

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.021	0.0029	ug/l	
1691-99-2	EtFOSE	ND	0.021	0.0040	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0084	0.0019	ug/l	
919005-14-4	ADONA	ND	0.0084	0.0013	ug/l	
377-73-1	PFMPA	ND	0.0042	0.00032	ug/l	
863090-89-5	PFMBA	ND	0.0042	0.00059	ug/l	
151772-58-6	NFDHA	ND	0.0042	0.0014	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0084	0.0026	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0084	0.0019	ug/l	
113507-82-7	PFEESA	ND	0.0042	0.00028	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	0.0026	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.053	0.0075	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.053	0.0065	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	86%		5-130%
	13C5-PFPeA	106%		40-130%
	13C5-PFHxA	109%		40-130%
	13C4-PFHpA	103%		40-130%
	13C8-PFOA	101%		40-130%
	13C9-PFNA	93%		40-130%
	13C6-PFDA	89%		40-130%
	13C7-PFUnDA	99%		30-130%
	13C2-PFDoDA	88%		10-130%
	13C2-PFTeDA	72%		10-130%
	13C3-PFBS	92%		40-135%
	13C3-PFHxS	100%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SDP	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-9	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	89%		40-130%
	13C8-FOSA	97%		40-130%
	d3-MeFOSA	79%		10-130%
	d5-EtFOSA	80%		10-130%
	d3-MeFOSAA	96%		40-170%
	d5-EtFOSAA	103%		25-135%
	d7-MeFOSE	87%		10-130%
	d9-EtFOSE	73%		10-130%
	13C2-4:2FTS	102%		40-200%
	13C2-6:2FTS	147%		40-200%
	13C2-8:2FTS	101%		40-300%
	13C3-HFPO-DA	104%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1T	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-10	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4122.D	1	10/06/23 03:39	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	65.0 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.0079	0.062	0.0072	ug/l	J
2706-90-3	Perfluoropentanoic acid	0.0067	0.031	0.0056	ug/l	J
307-24-4	Perfluorohexanoic acid	0.0099	0.015	0.0022	ug/l	J
375-85-9	Perfluoroheptanoic acid	0.0135	0.015	0.0038	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0617	0.015	0.0058	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.015	0.0031	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.015	0.0048	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.015	0.0042	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.015	0.0059	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.015	0.0061	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.015	0.0058	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.015	0.0051	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.015	0.0078	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0086	0.015	0.0085	ug/l	J
375-92-8	Perfluoroheptanesulfonic acid	ND	0.015	0.0075	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.154	0.015	0.0033	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.015	0.011	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.015	0.0084	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.015	0.0031	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.062	0.017	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.062	0.0070	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.062	0.011	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	0.0075	0.015	0.0053	ug/l	J
31506-32-8	MeFOSA	ND	0.015	0.0049	ug/l	
4151-50-2	EtFOSA	ND	0.015	0.0041	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1T	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-10	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	0.0275	0.015	0.0039	ug/l	
2991-50-6	EtFOSAA	0.0598	0.015	0.0070	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.15	0.021	ug/l	
1691-99-2	EtFOSE	ND	0.15	0.029	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.062	0.014	ug/l	
919005-14-4	ADONA	ND	0.062	0.0095	ug/l	
377-73-1	PFMPA	ND	0.031	0.0023	ug/l	
863090-89-5	PFMBA	ND	0.031	0.0043	ug/l	
151772-58-6	NFDHA	ND	0.031	0.0098	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.062	0.019	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.062	0.014	ug/l	
113507-82-7	PFEESA	ND	0.031	0.0021	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.077	0.019	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.38	0.055	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.38	0.048	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	113%		5-130%
	13C5-PFPeA	116%		40-130%
	13C5-PFHxA	120%		40-130%
	13C4-PFHpA	113%		40-130%
	13C8-PFOA	104%		40-130%
	13C9-PFNA	99%		40-130%
	13C6-PFDA	110%		40-130%
	13C7-PFUnDA	110%		30-130%
	13C2-PFDoDA	107%		10-130%
	13C2-PFTeDA	101%		10-130%
	13C3-PFBS	107%		40-135%
	13C3-PFHxS	124%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1T	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-10	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	99%		40-130%
	13C8-FOSA	102%		40-130%
	d3-MeFOSA	89%		10-130%
	d5-EtFOSA	104%		10-130%
	d3-MeFOSAA	109%		40-170%
	d5-EtFOSAA	104%		25-135%
	d7-MeFOSE	100%		10-130%
	d9-EtFOSE	87%		10-130%
	13C2-4:2FTS	107%		40-200%
	13C2-6:2FTS	139%		40-200%
	13C2-8:2FTS	90%		40-300%
	13C3-HFPO-DA	120%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1E	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-11	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4123.D	1	10/06/23 03:54	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	477 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0084	0.00097	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0042	0.00077	ug/l	
307-24-4	Perfluorohexanoic acid	0.00088	0.0021	0.00030	ug/l	J
375-85-9	Perfluoroheptanoic acid	0.0012	0.0021	0.00052	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0051	0.0021	0.00079	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0021	0.00042	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0021	0.00065	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0021	0.00058	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0021	0.00081	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0021	0.00083	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0021	0.00080	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.00094	0.0021	0.00069	ug/l	J
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0021	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0018	0.0021	0.0012	ug/l	J
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0021	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0057	0.0021	0.00045	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0021	0.0015	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0021	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0021	0.00042	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0084	0.0024	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0084	0.00095	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0084	0.0015	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0021	0.00072	ug/l	
31506-32-8	MeFOSA	ND	0.0021	0.00067	ug/l	
4151-50-2	EtFOSA	ND	0.0021	0.00056	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1E	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-11	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0021	0.00053	ug/l	
2991-50-6	EtFOSAA	ND	0.0021	0.00095	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.021	0.0029	ug/l	
1691-99-2	EtFOSE	ND	0.021	0.0039	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0084	0.0019	ug/l	
919005-14-4	ADONA	ND	0.0084	0.0013	ug/l	
377-73-1	PFMPA	ND	0.0042	0.00031	ug/l	
863090-89-5	PFMBA	ND	0.0042	0.00059	ug/l	
151772-58-6	NFDHA	ND	0.0042	0.0013	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0084	0.0026	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0084	0.0019	ug/l	
113507-82-7	PFEESA	ND	0.0042	0.00028	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0025	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.052	0.0075	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.052	0.0065	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	53%		5-130%
	13C5-PFPeA	113%		40-130%
	13C5-PFHxA	114%		40-130%
	13C4-PFHpA	113%		40-130%
	13C8-PFOA	123%		40-130%
	13C9-PFNA	124%		40-130%
	13C6-PFDA	106%		40-130%
	13C7-PFUnDA	106%		30-130%
	13C2-PFDoDA	89%		10-130%
	13C2-PFTeDA	83%		10-130%
	13C3-PFBS	118%		40-135%
	13C3-PFHxS	110%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1E	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-11	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	100%		40-130%
	13C8-FOSA	101%		40-130%
	d3-MeFOSA	73%		10-130%
	d5-EtFOSA	77%		10-130%
	d3-MeFOSAA	89%		40-170%
	d5-EtFOSAA	88%		25-135%
	d7-MeFOSE	85%		10-130%
	d9-EtFOSE	87%		10-130%
	13C2-4:2FTS	144%		40-200%
	13C2-6:2FTS	135%		40-200%
	13C2-8:2FTS	103%		40-300%
	13C3-HFPO-DA	119%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FD-092623	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-12	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4124.D	1	10/06/23 04:09	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	497 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00094	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0011	0.0020	0.00050	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0034	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0019	0.0020	0.0011	ug/l	J
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00099	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00092	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FD-092623		
Lab Sample ID:	JD73734-12	Date Sampled:	09/26/23
Matrix:	AQ - Ground Water	Date Received:	09/27/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00092	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0025	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0072	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	110%		5-130%
	13C5-PFPeA	116%		40-130%
	13C5-PFHxA	112%		40-130%
	13C4-PFHpA	111%		40-130%
	13C8-PFOA	111%		40-130%
	13C9-PFNA	113%		40-130%
	13C6-PFDA	101%		40-130%
	13C7-PFUnDA	107%		30-130%
	13C2-PFDoDA	104%		10-130%
	13C2-PFTeDA	92%		10-130%
	13C3-PFBS	118%		40-135%
	13C3-PFHxS	104%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FD-092623	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-12	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	107%		40-130%
	13C8-FOSA	104%		40-130%
	d3-MeFOSA	84%		10-130%
	d5-EtFOSA	92%		10-130%
	d3-MeFOSAA	106%		40-170%
	d5-EtFOSAA	99%		25-135%
	d7-MeFOSE	103%		10-130%
	d9-EtFOSE	104%		10-130%
	13C2-4:2FTS	121%		40-200%
	13C2-6:2FTS	121%		40-200%
	13C2-8:2FTS	121%		40-300%
	13C3-HFPO-DA	121%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FB-01	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-13	Date Received:	09/27/23
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4125.D	1	10/06/23 04:23	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	514 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0078	0.00090	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0039	0.00071	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0019	0.00028	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0019	0.00049	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0019	0.00073	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	0.00039	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00060	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00054	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00075	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00074	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0019	0.00064	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0019	0.00098	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0019	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00095	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0019	0.00042	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.00039	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0078	0.0022	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0078	0.00089	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0078	0.0014	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0019	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00062	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00052	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FB-01	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-13	Date Received:	09/27/23
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0019	0.00050	ug/l	
2991-50-6	EtFOSAA	ND	0.0019	0.00089	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.019	0.0027	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0036	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0078	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0078	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0039	0.00029	ug/l	
863090-89-5	PFMBA	ND	0.0039	0.00054	ug/l	
151772-58-6	NFDHA	ND	0.0039	0.0012	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0078	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0078	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0039	0.00026	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0097	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.049	0.0069	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.049	0.0060	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	113%		5-130%
	13C5-PFPeA	118%		40-130%
	13C5-PFHxA	119%		40-130%
	13C4-PFHpA	113%		40-130%
	13C8-PFOA	120%		40-130%
	13C9-PFNA	114%		40-130%
	13C6-PFDA	114%		40-130%
	13C7-PFUnDA	113%		30-130%
	13C2-PFDoDA	104%		10-130%
	13C2-PFTeDA	94%		10-130%
	13C3-PFBS	94%		40-135%
	13C3-PFHxS	95%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FB-01	Date Sampled:	09/25/23
Lab Sample ID:	JD73734-13	Date Received:	09/27/23
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	100%		40-130%
	13C8-FOSA	112%		40-130%
	d3-MeFOSA	85%		10-130%
	d5-EtFOSA	94%		10-130%
	d3-MeFOSAA	108%		40-170%
	d5-EtFOSAA	104%		25-135%
	d7-MeFOSE	101%		10-130%
	d9-EtFOSE	105%		10-130%
	13C2-4:2FTS	115%		40-200%
	13C2-6:2FTS	106%		40-200%
	13C2-8:2FTS	96%		40-300%
	13C3-HFPO-DA	120%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FB-02	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-14	Date Received:	09/27/23
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4126.D	1	10/06/23 04:38	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	532 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0075	0.00087	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0038	0.00069	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0019	0.00027	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0019	0.00047	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0019	0.00070	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	0.00038	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00058	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00052	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00072	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00074	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00071	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0019	0.00062	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0019	0.00095	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0019	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00092	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0019	0.00040	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.0010	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.00038	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0075	0.0021	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0075	0.00086	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0075	0.0014	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0019	0.00065	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00060	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00050	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FB-02	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-14	Date Received:	09/27/23
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0019	0.00048	ug/l	
2991-50-6	EtFOSAA	ND	0.0019	0.00086	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.019	0.0026	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0035	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0075	0.0017	ug/l	
919005-14-4	ADONA	ND	0.0075	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0038	0.00028	ug/l	
863090-89-5	PFMBA	ND	0.0038	0.00053	ug/l	
151772-58-6	NFDHA	ND	0.0038	0.0012	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0075	0.0023	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0075	0.0017	ug/l	
113507-82-7	PFEESA	ND	0.0038	0.00025	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0094	0.0023	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.047	0.0067	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.047	0.0058	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	107%		5-130%
	13C5-PFPeA	99%		40-130%
	13C5-PFHxA	98%		40-130%
	13C4-PFHpA	100%		40-130%
	13C8-PFOA	110%		40-130%
	13C9-PFNA	103%		40-130%
	13C6-PFDA	107%		40-130%
	13C7-PFUnDA	105%		30-130%
	13C2-PFDoDA	88%		10-130%
	13C2-PFTeDA	91%		10-130%
	13C3-PFBS	103%		40-135%
	13C3-PFHxS	96%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FB-02	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-14	Date Received:	09/27/23
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	100%		40-130%
	13C8-FOSA	95%		40-130%
	d3-MeFOSA	66%		10-130%
	d5-EtFOSA	74%		10-130%
	d3-MeFOSAA	93%		40-170%
	d5-EtFOSAA	99%		25-135%
	d7-MeFOSE	86%		10-130%
	d9-EtFOSE	89%		10-130%
	13C2-4:2FTS	107%		40-200%
	13C2-6:2FTS	122%		40-200%
	13C2-8:2FTS	104%		40-300%
	13C3-HFPO-DA	106%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-EB-01	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-15	Date Received:	09/27/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q4127.D	1	10/06/23 04:53	RKS	10/03/23 01:42	OP49509	T2Q83
Run #2							

	Initial Volume	Final Volume
Run #1	495 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0081	0.00094	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00074	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00051	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00076	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00063	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00056	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00078	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00077	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00067	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00099	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0015	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0081	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0081	0.00092	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0081	0.0015	ug/l	

PERFLUOROOCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0020	0.00070	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00065	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00054	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-EB-01	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-15	Date Received:	09/27/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0020	0.00052	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00092	ug/l	

PERFLUOROOCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.0081	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0081	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00057	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0081	0.0025	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0081	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.051	0.0072	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.051	0.0062	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	112%		5-130%
	13C5-PFPeA	111%		40-130%
	13C5-PFHxA	113%		40-130%
	13C4-PFHpA	104%		40-130%
	13C8-PFOA	109%		40-130%
	13C9-PFNA	107%		40-130%
	13C6-PFDA	114%		40-130%
	13C7-PFUnDA	111%		30-130%
	13C2-PFDoDA	104%		10-130%
	13C2-PFTeDA	98%		10-130%
	13C3-PFBS	121%		40-135%
	13C3-PFHxS	123%		40-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-EB-01	Date Sampled:	09/26/23
Lab Sample ID:	JD73734-15	Date Received:	09/27/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	113%		40-130%
	13C8-FOSA	94%		40-130%
	d3-MeFOSA	79%		10-130%
	d5-EtFOSA	86%		10-130%
	d3-MeFOSAA	91%		40-170%
	d5-EtFOSAA	94%		25-135%
	d7-MeFOSE	94%		10-130%
	d9-EtFOSE	98%		10-130%
	13C2-4:2FTS	143%		40-200%
	13C2-6:2FTS	136%		40-200%
	13C2-8:2FTS	100%		40-300%
	13C3-HFPO-DA	115%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW
SW
FB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

JS-0910-23-110

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SGS SGS North America Inc. - Dayton 2235 Route 130, Dayton, NJ 08810 TEL. 732-329-0200 www.sgs.com/ehsusa		FED-EX Tracking # <u>912-27</u> SGS Quote # _____		Bottle Order Control # _____ SGS Job # <u>JD73734</u>	
Client / Reporting Information Company Name: <u>CA Engineering</u> Street Address: <u>269 W. Jefferson St</u> City: <u>Syracuse NY</u> State: <u>13202</u> Project Contact: <u>Josh Oliver</u> E-mail: <u>joliver@caengineering.com</u> Phone #: <u>315 679 4856</u> Sampler(s) Name(s): <u>Monika Wilkey</u> Phone #: <u>315 380 3466</u>		Project Information Project Name: <u>Rose Valley Landfill (NYSDEC # 622017)</u> Street: <u>196 Rose Valley Rd</u> City: <u>Newport</u> State: <u>NY</u> Project #: <u>160253410015</u> Client Purchase Order #: _____ Project Manager: <u>Josh Oliver (CA)</u> Attention: _____		Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SQ - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Billing Information (if different from Report to) Company Name: <u>Same as report</u> Street Address: _____ City: _____ State: _____ Zip: _____		PEAS 1633 		Matrix Codes	
Collection Date: _____ Time: _____ Sampled by: _____ Grab (G) Comp (C) Source Chlorine (CC) (Y/N) Matrix: _____ # of bottles: _____ HCl: _____ NaOH: _____ HNO ₃ : _____ H ₂ SO ₄ : _____ DI Water: _____ MCH: _____ ENGORE: _____				pH Check (Lab Use Only)	
SCS Sample # _____ Field ID / Point of Collection _____ MECH/DI Val # _____		Number of Bottles HCl: _____ NaOH: _____ HNO ₃ : _____ H ₂ SO ₄ : _____ DI Water: _____ MCH: _____ ENGORE: _____		LAB USE ONLY <u>M9</u> <u>M3012</u>	
Turn Around Time (Business Days) ☐ 0 Business Days ☐ 5 Business Days ☐ 3 Business Days* ☐ 2 Business Days* ☐ 1 Business Day* * Other _____ All data available via SGS Engage		Approved By (SGS PM) / Date: _____ Approved By (SGS PM) / Date: _____ Approved By (SGS PM) / Date: _____ Approved By (SGS PM) / Date: _____ Approved By (SGS PM) / Date: _____		Deliverable ☐ Commercial "A" (Level 1) ☒ Commercial "B" (Level 2) ☐ NJ Reduced (Level 3) ☐ Full Tier 1 (Level 4) ☐ Commercial "C" ☐ NJ DKQP ☐ NYASP Category A ☐ NYASP Category B ☐ MA MCP Criteria _____ ☐ CT RCP Criteria _____ ☐ State Forms ☒ EDD Format <u>NYSDEC EQUS EDD</u>	
Sample Custody must be documented below each time samples change possession, including courier delivery.		Comments / Special Instructions <u>Extra volume provided w/ 622017-SW-03S for mslmsd</u> <u>(samples from chain are in two coolers)</u> http://www.sgs.com/en/terms-and-conditions		Relinquished By: <u>1/15</u> Received By: <u>James</u>	
Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>	
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Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>	
Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>	
Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>	
Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>	
Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>	
Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>	
Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u>1/15</u> Received By: <u>James</u>	
Relinquished By: <u>1/15</u> Received By: <u>James</u>		Relinquished By: <u></u>			

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IR-40

JD73734: Chain of Custody

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JD73734

CHAIN OF CUSTODY

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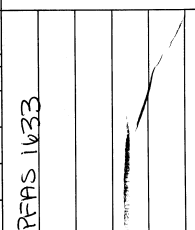
SGS North America Inc. - Dayton
 2325 Route 130, Dayton, NJ 08810
 TEL. 732-329-0200
www.sgs.com/ehsusa

FED-EX Tracking # _____

SGS Quote # _____

Bottle Order Control # _____

SGS Job # **JD 0734**

Client / Reporting Information				Project Information												Matrix Codes																															
Company Name:				Project Name:												PFAS 1633  DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																															
Street Address				Street																																											
City State Zip				City State																																											
Project Contact E-mail				Project #																																											
Phone #				Client Purchase Order #																																											
Sampler(s) Name(s)				Project Manager												Attention:																															
Field ID / Point of Collection				Collection												pH Check (Lab Use Only)																															
SGS Sample #	Field ID / Point of Collection			MEOH/DI Vial #	Date	Time	Sampled by	Grab (G) Comp (C)	Source (S) (Other) (O) (V) (N)	Matrix	# of bottles	HCl	NaOH	HNO ₃	H ₂ SO ₄	None	DI Water	MEDH	ENDORE																												
13	622017-FB-01				09/25/23	1300	MLG	G	FB	3					3						X																										
14	622017-FB-02				9/26/23	1300	MLG	G	FB	3					3						X																										
15	622017-FB-01				9/26/23	1600	MLG	G	FB	3					3						X																										
Turn Around Time (Business Days)																								Deliverable												Comments / Special Instructions											
☒ 10 Business Days ☐ 5 Business Days ☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day ☐ Other _____												Approved By (SGS PM) / Date: _____ _____ _____ _____ _____ _____												☐ Commercial "A" (Level 1) ☒ Commercial "B" (Level 2) ☐ NJ Reduced (Level 3) ☐ Full Tier I (Level 4) ☐ Commercial "C" ☐ NJ DKQP												☐ NYASP Category A ☐ NYASP Category B ☐ MA MCP Criteria ☐ CT RCP Criteria ☐ State Forms ☒ EDD Format NY&DC&EQU&SEDO											
Sample Custody must be documented below each time samples change possession, including courier delivery.																								Commercial "A" = Results only; Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Partial Raw data												http://www.sgs.com/en/terms-and-conditions											
Relinquished by: 1				Date / Time: 1				Received by: 1				Relinquished by: 2				Date / Time: 2				Received by: 2																											
Relinquished by: 3				Date / Time: 3				Received by: 3				Relinquished by: 4				Date / Time: 4				Received by: 4																											
Relinquished by: 5				Date / Time: 5				Received by: 5				Custody Seal #				Therm ID:				On Ice				Cooler Temp. °C																							

EHSA-QAC-0023-05 Rev. Date: 8/5/22

JD73734: Chain of Custody

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JD73734

SGS Sample Receipt Summary

Job Number: JD73734

Client: EA ENGINEERING

Project: NYSDEC SMP-D SITE- ROSE VALLEY LANDF

Date / Time Received: 9/27/2023 1:15:00 AM

Delivery Method:

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (4.7);

Cooler Temps (Corrected) °C: Cooler 1: (4.4);

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐

2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐

4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐

2. Cooler temp verification: IR Gun 40

3. Cooler media: Ice (Bag)

4. No. Coolers: 1

Quality Control Preservation

Y or N N/A

1. Trip Blank present / cooler: ☐ ☐ ☒

2. Trip Blank listed on COC: ☐ ☐ ☒

3. Samples preserved properly: ☒ ☐

4. VOCs headspace free: ☐ ☐ ☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐

2. Container labeling complete: ☒ ☐

3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐

2. All containers accounted for: ☒ ☐

3. Condition of sample: Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐

2. Bottles received for unspecified tests: ☐ ☒

3. Sufficient volume recvd for analysis: ☒ ☐

4. Compositing instructions clear: ☐ ☐ ☒

5. Filtering instructions clear: ☐ ☐ ☒

Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify)

Comments:

-1 Did not receive 60mL bottle for PFAS. Limited volume.

JD73734: Chain of Custody

Page 3 of 4

Responded to by: Kelly Ramos

Response Date: 9/29/2023

Please proceed as noted

4.1

4

JD73734: Chain of Custody
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MS Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Isotope Dilution Standard Recovery Summaries

Instrument Blank

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Job Number: JD73734**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q83-IBLK	2Q4080.D	1	10/05/23	RKS	n/a	n/a	T2Q83

The QC reported here applies to the following samples:**Method:** EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7, JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic acid	ND	0.0020	0.00040	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

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Job Number: JD73734

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q83-IBLK	2Q4080.D	1	10/05/23	RKS	n/a	n/a	T2Q83

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7, JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries	Limits	
	13C4-PFBA	109%	5-130%
	13C5-PFPeA	106%	40-130%
	13C5-PFHxA	110%	40-130%
	13C4-PFHpA	103%	40-130%
	13C8-PFOA	111%	40-130%
	13C9-PFNA	100%	40-130%
	13C6-PFDA	110%	40-130%
	13C7-PFUnDA	104%	30-130%
	13C2-PFDoDA	102%	10-130%
	13C2-PFTeDA	105%	10-130%
	13C3-PFBS	120%	40-135%
	13C3-PFHxS	126%	40-130%
	13C8-PFOS	121%	40-130%
	13C8-FOSA	117%	40-130%
	d3-MeFOSA	106%	10-130%
	d5-EtFOSA	118%	10-130%
	d3-MeFOSAA	115%	40-170%
	d5-EtFOSAA	116%	25-135%
	d7-MeFOSE	114%	10-130%
	d9-EtFOSE	118%	10-130%
	13C2-4:2FTS	122%	40-200%
	13C2-6:2FTS	150%	40-200%
	13C2-8:2FTS	152%	40-300%
	13C3-HFPO-DA	111%	40-130%

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Job Number: JD73734**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q83-ICCB	2Q4088.D	1	10/05/23	RKS	n/a	n/a	T2Q83

The QC reported here applies to the following samples:**Method:** EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic acid	ND	0.0020	0.00040	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

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Job Number: JD73734**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q83-ICCB	2Q4088.D	1	10/05/23	RKS	n/a	n/a	T2Q83

The QC reported here applies to the following samples:**Method:** EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries	Limits	
	13C4-PFBA	110%	5-130%
	13C5-PFPeA	110%	40-130%
	13C5-PFHxA	107%	40-130%
	13C4-PFHpA	107%	40-130%
	13C8-PFOA	108%	40-130%
	13C9-PFNA	103%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	106%	30-130%
	13C2-PFDoDA	99%	10-130%
	13C2-PFTeDA	105%	10-130%
	13C3-PFBS	98%	40-135%
	13C3-PFHxS	118%	40-130%
	13C8-PFOS	108%	40-130%
	13C8-FOSA	114%	40-130%
	d3-MeFOSA	107%	10-130%
	d5-EtFOSA	117%	10-130%
	d3-MeFOSAA	126%	40-170%
	d5-EtFOSAA	119%	25-135%
	d7-MeFOSE	115%	10-130%
	d9-EtFOSE	117%	10-130%
	13C2-4:2FTS	136%	40-200%
	13C2-6:2FTS	124%	40-200%
	13C2-8:2FTS	125%	40-300%
	13C3-HFPO-DA	112%	40-130%

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Page 1 of 2

Job Number: JD73734**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q83-ICCB	2Q4119.D	1	10/06/23	RKS	n/a	n/a	T2Q83

The QC reported here applies to the following samples:**Method:** EPA DRAFT 1633

JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic acid	ND	0.0020	0.00040	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

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Job Number: JD73734

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q83-ICCB	2Q4119.D	1	10/06/23	RKS	n/a	n/a	T2Q83

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries	Limits	
	13C4-PFBA	109%	5-130%
	13C5-PFPeA	107%	40-130%
	13C5-PFHxA	105%	40-130%
	13C4-PFHpA	101%	40-130%
	13C8-PFOA	110%	40-130%
	13C9-PFNA	101%	40-130%
	13C6-PFDA	104%	40-130%
	13C7-PFUnDA	106%	30-130%
	13C2-PFDoDA	104%	10-130%
	13C2-PFTeDA	102%	10-130%
	13C3-PFBS	93%	40-135%
	13C3-PFHxS	111%	40-130%
	13C8-PFOS	103%	40-130%
	13C8-FOSA	109%	40-130%
	d3-MeFOSA	99%	10-130%
	d5-EtFOSA	104%	10-130%
	d3-MeFOSAA	107%	40-170%
	d5-EtFOSAA	106%	25-135%
	d7-MeFOSE	107%	10-130%
	d9-EtFOSE	108%	10-130%
	13C2-4:2FTS	84%	40-200%
	13C2-6:2FTS	118%	40-200%
	13C2-8:2FTS	108%	40-300%
	13C3-HFPO-DA	115%	40-130%

Method Blank Summary

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Job Number: JD73734

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49509-MB	2Q4103.D	1	10/05/23	RKS	10/03/23	OP49509	T2Q83

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7, JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic acid	ND	0.0020	0.00040	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Method Blank Summary

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Job Number: JD73734

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49509-MB	2Q4103.D	1	10/05/23	RKS	10/03/23	OP49509	T2Q83

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7, JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	109%
	13C5-PFPeA	109%
	13C5-PFHxA	105%
	13C4-PFHpA	101%
	13C8-PFOA	114%
	13C9-PFNA	98%
	13C6-PFDA	98%
	13C7-PFUnDA	100%
	13C2-PFDoDA	93%
	13C2-PFTeDA	85%
	13C3-PFBS	115%
	13C3-PFHxS	107%
	13C8-PFOS	108%
	13C8-FOSA	92%
	d3-MeFOSA	69%
	d5-EtFOSA	79%
	d3-MeFOSAA	96%
	d5-EtFOSAA	89%
	d7-MeFOSE	84%
	d9-EtFOSE	83%
	13C2-4:2FTS	126%
	13C2-6:2FTS	124%
	13C2-8:2FTS	122%
	13C3-HFPO-DA	114%

Blank Spike Summary

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Job Number: JD73734**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49509-LLBS	2Q4104.D	1	10/05/23	RKS	10/03/23	OP49509	T2Q83

The QC reported here applies to the following samples:**Method:** EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7, JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.016	0.0133	83	70-140
2706-90-3	Perfluoropentanoic acid	0.008	0.0063	79	65-135
307-24-4	Perfluorohexanoic acid	0.004	0.0030	75	70-145
375-85-9	Perfluoroheptanoic acid	0.004	0.0039	98	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0031	78	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0034	85	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0027	68* a	70-140
2058-94-8	Perfluoroundecanoic acid	0.004	0.0037	93	70-145
307-55-1	Perfluorododecanoic acid	0.004	0.0034	85	70-140
72629-94-8	Perfluorotridecanoic acid	0.004	0.0024	60* a	65-140
376-06-7	Perfluorotetradecanoic acid	0.004	0.0036	90	60-140
375-73-5	Perfluorobutanesulfonic acid	0.00355	0.0031	87	60-145
2706-91-4	Perfluoropentanesulfonic acid	0.00376	0.0027	72	65-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0031	85	65-145
375-92-8	Perfluoroheptanesulfonic acid	0.00381	0.0031	81	70-150
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0034	92	55-150
68259-12-1	Perfluorononanesulfonic acid	0.00385	0.0029	75	65-145
335-77-3	Perfluorodecanesulfonic acid	0.00386	0.0025	65	60-145
79780-39-5	Perfluorododecanesulfonic acid	0.00388	0.0029	75	50-145
757124-72-44:2	Fluorotelomer sulfonate	0.015	0.0164	109	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	0.0152	0.0121	80	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	0.0154	0.0115	75	60-150
754-91-6	PFOSA	0.008	0.0063	79	70-145
31506-32-8	MeFOSA	0.008	0.0029	36* a	60-150
4151-50-2	EtFOSA	0.008	0.0066	83	65-145
2355-31-9	MeFOSAA	0.004	0.0029	73	50-140
2991-50-6	EtFOSAA	0.004	0.0040	100	70-145
24448-09-7	MeFOSE	0.02	0.0466	233* b	70-145
1691-99-2	EtFOSE	0.02	0.0174	87	70-135
13252-13-6	HFPO-DA (GenX)	0.016	0.0143	89	70-140
919005-14-4	ADONA	0.0151	0.0124	82	65-145
377-73-1	PFMPA	0.008	0.0071	89	55-140
863090-89-5	PFMBA	0.008	0.0072	90	60-150
151772-58-6	NFDHA	0.008	0.0056	70	50-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.015	0.0127	85	70-155
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0151	0.0119	79	50-150

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JD73734

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49509-LLBS	2Q4104.D	1	10/05/23	RKS	10/03/23	OP49509	T2Q83

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7, JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.00712	0.0068	96	70-140
356-02-5	3:3 Fluorotelomer carboxylate	0.02	0.0189	95	65-130
914637-49-35:3	Fluorotelomer carboxylate	0.1	0.0758	76	70-135
812-70-4	7:3 Fluorotelomer carboxylate	0.1	0.0753	75	50-145

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	103%	5-130%
	13C5-PFPeA	100%	40-130%
	13C5-PFHxA	103%	40-130%
	13C4-PFHpA	93%	40-130%
	13C8-PFOA	104%	40-130%
	13C9-PFNA	98%	40-130%
	13C6-PFDA	103%	40-130%
	13C7-PFUnDA	94%	30-130%
	13C2-PFDoDA	85%	10-130%
	13C2-PFTeDA	71%	10-130%
	13C3-PFBS	105%	40-135%
	13C3-PFHxS	124%	40-130%
	13C8-PFOS	104%	40-130%
	13C8-FOSA	95%	40-130%
	d3-MeFOSA	79%	10-130%
	d5-EtFOSA	90%	10-130%
	d3-MeFOSAA	87%	40-170%
	d5-EtFOSAA	81%	25-135%
	d7-MeFOSE	96%	10-130%
	d9-EtFOSE	93%	10-130%
	13C2-4:2FTS	119%	40-200%
	13C2-6:2FTS	109%	40-200%
	13C2-8:2FTS	118%	40-300%
	13C3-HFPO-DA	105%	40-130%

(a) Outside of control limits, but within reasonable method recovery limits.

(b) Outside control limits. Associated analytes were not detected in the client sample.

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JD73734**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49509-BS	2Q4105.D	1	10/05/23	RKS	10/03/23	OP49509	T2Q83

The QC reported here applies to the following samples:**Method:** EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7, JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.1	0.0769	77	70-140
2706-90-3	Perfluoropentanoic acid	0.05	0.0389	78	65-135
307-24-4	Perfluorohexanoic acid	0.025	0.0197	79	70-145
375-85-9	Perfluoroheptanoic acid	0.025	0.0186	74	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0184	74	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0177	71	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0185	74	70-140
2058-94-8	Perfluoroundecanoic acid	0.025	0.0209	84	70-145
307-55-1	Perfluorododecanoic acid	0.025	0.0226	90	70-140
72629-94-8	Perfluorotridecanoic acid	0.025	0.0205	82	65-140
376-06-7	Perfluorotetradecanoic acid	0.025	0.0197	79	60-140
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0206	93	60-145
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0202	86	65-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0193	84	65-145
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0210	88	70-150
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0175	75	55-150
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0197	82	65-145
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0194	80	60-145
79780-39-5	Perfluorododecanesulfonic acid	0.0243	0.0164	68	50-145
757124-72-44:2	Fluorotelomer sulfonate	0.0938	0.0641	68* a	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.0792	83	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.0782	81	60-150
754-91-6	PFOSA	0.05	0.0411	82	70-145
31506-32-8	MeFOSA	0.05	0.0202	40* a	60-150
4151-50-2	EtFOSA	0.05	0.0417	83	65-145
2355-31-9	MeFOSAA	0.025	0.0179	72	50-140
2991-50-6	EtFOSAA	0.025	0.0182	73	70-145
24448-09-7	MeFOSE	0.125	0.273	218* b	70-145
1691-99-2	EtFOSE	0.125	0.102	82	70-135
13252-13-6	HFPO-DA (GenX)	0.1	0.0812	81	70-140
919005-14-4	ADONA	0.0945	0.0824	87	65-145
377-73-1	PFMPA	0.05	0.0430	86	55-140
863090-89-5	PFMBA	0.05	0.0432	86	60-150
151772-58-6	NFDHA	0.05	0.0388	78	50-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0935	0.0828	89	70-155
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0945	0.0819	87	50-150

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JD73734

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49509-BS	2Q4105.D	1	10/05/23	RKS	10/03/23	OP49509	T2Q83

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7, JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0445	0.0429	96	70-140
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.114	91	65-130
914637-49-35:3	Fluorotelomer carboxylate	0.625	0.530	85	70-135
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.505	81	50-145

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	107%	5-130%
	13C5-PFPeA	108%	40-130%
	13C5-PFHxA	107%	40-130%
	13C4-PFHpA	113%	40-130%
	13C8-PFOA	104%	40-130%
	13C9-PFNA	112%	40-130%
	13C6-PFDA	94%	40-130%
	13C7-PFUnDA	103%	30-130%
	13C2-PFDoDA	86%	10-130%
	13C2-PFTeDA	83%	10-130%
	13C3-PFBS	107%	40-135%
	13C3-PFHxS	104%	40-130%
	13C8-PFOS	126%	40-130%
	13C8-FOSA	107%	40-130%
	d3-MeFOSA	86%	10-130%
	d5-EtFOSA	99%	10-130%
	d3-MeFOSAA	109%	40-170%
	d5-EtFOSAA	109%	25-135%
	d7-MeFOSE	103%	10-130%
	d9-EtFOSE	105%	10-130%
	13C2-4:2FTS	122%	40-200%
	13C2-6:2FTS	113%	40-200%
	13C2-8:2FTS	106%	40-300%
	13C3-HFPO-DA	109%	40-130%

(a) Outside of control limits, but within reasonable method recovery limits.

(b) Outside control limits. Associated analytes were not detected in the client sample.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JD73734

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49509-MS	2Q4106.D	1	10/06/23	RKS	10/03/23	OP49509	T2Q83
OP49509-MSD	2Q4107.D	1	10/06/23	RKS	10/03/23	OP49509	T2Q83
JD73734-6	2Q4115.D	1	10/06/23	RKS	10/03/23	OP49509	T2Q83

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7, JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	JD73734-6		Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q								
375-22-4	Perfluorobutanoic acid	0.0016	J	0.098	0.0811	81	0.101	0.0826	80	2	70-140/30
2706-90-3	Perfluoropentanoic acid	ND		0.049	0.0403	82	0.0504	0.0416	83	3	65-135/30
307-24-4	Perfluorohexanoic acid	ND		0.0245	0.0195	80	0.0252	0.0204	81	5	70-145/30
375-85-9	Perfluoroheptanoic acid	ND		0.0245	0.0198	81	0.0252	0.0197	78	1	70-150/30
335-67-1	Perfluorooctanoic acid	ND		0.0245	0.0177	72	0.0252	0.0212	84	18	70-150/30
375-95-1	Perfluorononanoic acid	ND		0.0245	0.0198	81	0.0252	0.0198	79	0	70-150/30
335-76-2	Perfluorodecanoic acid	ND		0.0245	0.0173	71	0.0252	0.0205	81	17	70-140/30
2058-94-8	Perfluoroundecanoic acid	ND		0.0245	0.0208	85	0.0252	0.0207	82	0	70-145/30
307-55-1	Perfluorododecanoic acid	ND		0.0245	0.0219	89	0.0252	0.0240	95	9	70-140/30
72629-94-8	Perfluorotridecanoic acid	ND		0.0245	0.0198	81	0.0252	0.0223	88	12	65-140/30
376-06-7	Perfluorotetradecanoic acid	ND		0.0245	0.0197	80	0.0252	0.0206	82	4	60-140/30
375-73-5	Perfluorobutanesulfonic acid	ND		0.0217	0.0195	90	0.0224	0.0209	93	7	60-145/30
2706-91-4	Perfluoropentanesulfonic acid	ND		0.0231	0.0220	95	0.0237	0.0210	89	5	65-140/30
355-46-4	Perfluorohexanesulfonic acid	ND		0.0224	0.0163	73	0.023	0.0222	96	31* a	65-145/30
375-92-8	Perfluoroheptanesulfonic acid	ND		0.0234	0.0187	80	0.024	0.0220	92	16	70-150/30
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0227	0.0223	98	0.0234	0.0207	89	7	55-150/30
68259-12-1	Perfluorononanesulfonic acid	ND		0.0236	0.0251	106	0.0242	0.0240	99	4	65-145/30
335-77-3	Perfluorodecanesulfonic acid	ND		0.0237	0.0174	74	0.0243	0.0162	67	7	60-145/30
79780-39-5	Perfluorododecanesulfonic aci	ND		0.0238	0.0194	82	0.0244	0.0193	79	1	50-145/30
757124-72-44:2	Fluorotelomer sulfonate	ND		0.0919	0.0764	83	0.0945	0.0787	83	3	70-145/30
27619-97-2	6:2 Fluorotelomer sulfonate	ND		0.0931	0.0843	91	0.0958	0.0899	94	6	65-155/30
39108-34-4	8:2 Fluorotelomer sulfonate	ND		0.0941	0.0764	81	0.0968	0.0785	81	3	60-150/30
754-91-6	PFOSA	ND		0.049	0.0384	78	0.0504	0.0424	84	10	70-145/30
31506-32-8	MeFOSA	ND		0.049	0.0182	37* a	0.0504	0.0190	38* a	4	60-150/30
4151-50-2	EtFOSA	ND		0.049	0.0454	93	0.0504	0.0433	86	5	65-145/30
2355-31-9	MeFOSAA	ND		0.0245	0.0180	73	0.0252	0.0198	79	10	50-140/30
2991-50-6	EtFOSAA	ND		0.0245	0.0208	85	0.0252	0.0176	70	17	70-145/30
24448-09-7	MeFOSE	ND		0.123	0.301	246* b	0.126	0.282	224* b	7	70-145/30
1691-99-2	EtFOSE	ND		0.123	0.104	85	0.126	0.108	86	4	70-135/30
13252-13-6	HFPO-DA (GenX)	ND		0.098	0.0772	79	0.101	0.0812	81	5	70-140/30
919005-14-4	ADONA	ND		0.0926	0.0813	88	0.0953	0.0811	85	0	65-145/30
377-73-1	PFMPA	ND		0.049	0.0427	87	0.0504	0.0437	87	2	55-140/30
863090-89-5	PFMBA	ND		0.049	0.0439	90	0.0504	0.0442	88	1	60-150/30
151772-58-6	NFDHA	ND		0.049	0.0416	85	0.0504	0.0419	83	1	50-150/30
756426-58-19	Cl-PF3ONS (F-53B Major)	ND		0.0917	0.0775	85	0.0943	0.0802	85	3	70-155/30
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND		0.0926	0.0759	82	0.0953	0.0822	86	8	50-150/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: JD73734

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49509-MS	2Q4106.D	1	10/06/23	RKS	10/03/23	OP49509	T2Q83
OP49509-MSD	2Q4107.D	1	10/06/23	RKS	10/03/23	OP49509	T2Q83
JD73734-6	2Q4115.D	1	10/06/23	RKS	10/03/23	OP49509	T2Q83

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

JD73734-1, JD73734-2, JD73734-3, JD73734-4, JD73734-5, JD73734-6, JD73734-7, JD73734-8, JD73734-9, JD73734-10, JD73734-11, JD73734-12, JD73734-13, JD73734-14, JD73734-15

CAS No.	Compound	JD73734-6 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
113507-82-7	PFEEESA	ND		0.0436	100	0.0449	0.0456	102	4	70-140/30
356-02-5	3:3 Fluorotelomer carboxylate	ND		0.123	86	0.126	0.0995	79	6	65-130/30
914637-49-35:3	Fluorotelomer carboxylate	ND		0.613	90	0.63	0.558	89	1	70-135/30
812-70-4	7:3 Fluorotelomer carboxylate	ND		0.613	88	0.63	0.558	89	3	50-145/30

CAS No.	ID Standard Recoveries	MS	MSD	JD73734-6	Limits
	13C4-PFBA	82%	86%	84%	5-130%
	13C5-PFPeA	113%	117%	110%	40-130%
	13C5-PFHxA	111%	113%	107%	40-130%
	13C4-PFHpA	113%	116%	104%	40-130%
	13C8-PFOA	117%	118%	118%	40-130%
	13C9-PFNA	111%	118%	109%	40-130%
	13C6-PFDA	112%	104%	106%	40-130%
	13C7-PFUnDA	104%	115%	115%	30-130%
	13C2-PFDoDA	94%	91%	102%	10-130%
	13C2-PFTeDA	90%	100%	99%	10-130%
	13C3-PFBS	103%	113%	101%	40-135%
	13C3-PFHxS	116%	104%	102%	40-130%
	13C8-PFOS	94%	106%	93%	40-130%
	13C8-FOSA	103%	86%	98%	40-130%
	d3-MeFOSA	79%	76%	84%	10-130%
	d5-EtFOSA	81%	86%	86%	10-130%
	d3-MeFOSAA	99%	102%	104%	40-170%
	d5-EtFOSAA	92%	104%	104%	25-135%
	d7-MeFOSE	87%	84%	98%	10-130%
	d9-EtFOSE	92%	87%	96%	10-130%
	13C2-4:2FTS	107%	106%	81%	40-200%
	13C2-6:2FTS	100%	113%	116%	40-200%
	13C2-8:2FTS	113%	117%	99%	40-300%
	13C3-HFPO-DA	123%	125%	114%	40-130%

(a) Outside of control limits, but within reasonable method recovery limits.

(b) Outside control limits. Associated analytes were not detected in the client sample.

* = Outside of Control Limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD73734
Account: EAENYES EA Engineering
Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Method: EPA DRAFT 1633	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6	S7	S8
JD73734-1	2Q4108.D	95	102	97	99	107	112	104	113
JD73734-2	2Q4111.D	95	112	115	113	128	94	92	102
JD73734-3	2Q4112.D	101	106	107	105	109	111	97	98
JD73734-4	2Q4113.D	103	107	106	102	105	106	113	115
JD73734-5	2Q4114.D	83	107	103	107	115	116	112	114
JD73734-6	2Q4115.D	84	110	107	104	118	109	106	115
JD73734-7	2Q4116.D	99	108	109	103	102	113	96	87
JD73734-8	2Q4120.D	109	112	112	111	102	93	104	96
JD73734-9	2Q4121.D	86	106	109	103	101	93	89	99
JD73734-10	2Q4122.D	113	116	120	113	104	99	110	110
JD73734-11	2Q4123.D	53	113	114	113	123	124	106	106
JD73734-12	2Q4124.D	110	116	112	111	111	113	101	107
JD73734-13	2Q4125.D	113	118	119	113	120	114	114	113
JD73734-14	2Q4126.D	107	99	98	100	110	103	107	105
JD73734-15	2Q4127.D	112	111	113	104	109	107	114	111
OP49509-BS	2Q4105.D	107	108	107	113	104	112	94	103
OP49509-LLBS	2Q4104.D	103	100	103	93	104	98	103	94
OP49509-MB	2Q4103.D	109	109	105	101	114	98	98	100
OP49509-MS	2Q4106.D	82	113	111	113	117	111	112	104
OP49509-MSD	2Q4107.D	86	117	113	116	118	118	104	115
T2Q83-IBLK	2Q4080.D	109	106	110	103	111	100	110	104
T2Q83-ICCB	2Q4088.D	110	110	107	107	108	103	98	106
T2Q83-ICCB	2Q4119.D	109	107	105	101	110	101	104	106

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFBA	5-130%
S2 = 13C5-PFPeA	40-130%
S3 = 13C5-PFHxA	40-130%
S4 = 13C4-PFHpA	40-130%
S5 = 13C8-PFOA	40-130%
S6 = 13C9-PFNA	40-130%
S7 = 13C6-PFDA	40-130%
S8 = 13C7-PFUnDA	30-130%

Isotope Dilution Standard Recovery Summary

Job Number: JD73734
Account: EAENYES EA Engineering
Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Method: EPA DRAFT 1633	Matrix: AQ
------------------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S9	S10	S11	S12	S13	S14	S15	S16
JD73734-1	2Q4108.D	104	97	109	110	119	104	78	86
JD73734-2	2Q4111.D	97	88	97	118	108	95	74	73
JD73734-3	2Q4112.D	83	83	101	109	91	96	74	80
JD73734-4	2Q4113.D	107	90	117	119	106	94	76	80
JD73734-5	2Q4114.D	97	99	111	98	95	87	72	76
JD73734-6	2Q4115.D	102	99	101	102	93	98	84	86
JD73734-7	2Q4116.D	81	79	115	123	104	107	79	84
JD73734-8	2Q4120.D	80	78	99	102	96	94	83	89
JD73734-9	2Q4121.D	88	72	92	100	89	97	79	80
JD73734-10	2Q4122.D	107	101	107	124	99	102	89	104
JD73734-11	2Q4123.D	89	83	118	110	100	101	73	77
JD73734-12	2Q4124.D	104	92	118	104	107	104	84	92
JD73734-13	2Q4125.D	104	94	94	95	100	112	85	94
JD73734-14	2Q4126.D	88	91	103	96	100	95	66	74
JD73734-15	2Q4127.D	104	98	121	123	113	94	79	86
OP49509-BS	2Q4105.D	86	83	107	104	126	107	86	99
OP49509-LLBS	2Q4104.D	85	71	105	124	104	95	79	90
OP49509-MB	2Q4103.D	93	85	115	107	108	92	69	79
OP49509-MS	2Q4106.D	94	90	103	116	94	103	79	81
OP49509-MSD	2Q4107.D	91	100	113	104	106	86	76	86
T2Q83-IBLK	2Q4080.D	102	105	120	126	121	117	106	118
T2Q83-ICCB	2Q4088.D	99	105	98	118	108	114	107	117
T2Q83-ICCB	2Q4119.D	104	102	93	111	103	109	99	104

Isotope Dilution Standards	Recovery Limits
S9 = 13C2-PFDoDA	10-130%
S10 = 13C2-PFTeDA	10-130%
S11 = 13C3-PFBS	40-135%
S12 = 13C3-PFHxS	40-130%
S13 = 13C8-PFOS	40-130%
S14 = 13C8-FOSA	40-130%
S15 = d3-MeFOSA	10-130%
S16 = d5-EtFOSA	10-130%

Isotope Dilution Standard Recovery Summary

Job Number: JD73734
Account: EAENYES EA Engineering
Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Method: EPA DRAFT 1633	Matrix: AQ
------------------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S17	S18	S19	S20	S21	S22	S23	S24
JD73734-1	2Q4108.D	104	96	95	97	132	106	106	100
JD73734-2	2Q4111.D	100	91	85	88	96	111	98	121
JD73734-3	2Q4112.D	90	87	89	87	102	116	95	108
JD73734-4	2Q4113.D	96	89	89	90	100	114	101	109
JD73734-5	2Q4114.D	88	88	87	88	107	88	117	110
JD73734-6	2Q4115.D	104	104	98	96	81	116	99	114
JD73734-7	2Q4116.D	96	89	94	93	96	122	111	112
JD73734-8	2Q4120.D	92	97	84	81	94	89	85	110
JD73734-9	2Q4121.D	96	103	87	73	102	147	101	104
JD73734-10	2Q4122.D	109	104	100	87	107	139	90	120
JD73734-11	2Q4123.D	89	88	85	87	144	135	103	119
JD73734-12	2Q4124.D	106	99	103	104	121	121	121	121
JD73734-13	2Q4125.D	108	104	101	105	115	106	96	120
JD73734-14	2Q4126.D	93	99	86	89	107	122	104	106
JD73734-15	2Q4127.D	91	94	94	98	143	136	100	115
OP49509-BS	2Q4105.D	109	109	103	105	122	113	106	109
OP49509-LLBS	2Q4104.D	87	81	96	93	119	109	118	105
OP49509-MB	2Q4103.D	96	89	84	83	126	124	122	114
OP49509-MS	2Q4106.D	99	92	87	92	107	100	113	123
OP49509-MSD	2Q4107.D	102	104	84	87	106	113	117	125
T2Q83-IBLK	2Q4080.D	115	116	114	118	122	150	152	111
T2Q83-ICCB	2Q4088.D	126	119	115	117	136	124	125	112
T2Q83-ICCB	2Q4119.D	107	106	107	108	84	118	108	115

Isotope Dilution Standards	Recovery Limits
S17 = d3-MeFOSAA	40-170%
S18 = d5-EtFOSAA	25-135%
S19 = d7-MeFOSE	10-130%
S20 = d9-EtFOSE	10-130%
S21 = 13C2-4:2FTS	40-200%
S22 = 13C2-6:2FTS	40-200%
S23 = 13C2-8:2FTS	40-300%
S24 = 13C3-HFPO-DA	40-130%

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EA Engineering

NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

160253410013

SGS Job Number: JD73737

Sampling Dates: 09/25/23 - 09/26/23

Report to:

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Total number of pages in report: **103**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

EA Engineering

Job No: JD73737

NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY
Project No: 160253410013

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD73737-1	09/25/23	13:55	MG	09/27/23	AQ	Ground Water	622017-MW-03
JD73737-2	09/25/23	14:38	MG	09/27/23	AQ	Ground Water	622017-MW-04
JD73737-3	09/25/23	12:42	MG	09/27/23	AQ	Ground Water	622017-MW-16
JD73737-4	09/26/23	09:33	MG	09/27/23	AQ	Ground Water	622017-SW-01S
JD73737-5	09/26/23	11:10	MG	09/27/23	AQ	Ground Water	622017-SW-01D
JD73737-6	09/26/23	12:12	MG	09/27/23	AQ	Ground Water	622017-SW-02S
JD73737-7	09/26/23	13:35	MG	09/27/23	AQ	Ground Water	622017-SW-02D
JD73737-8	09/26/23	14:57	MG	09/27/23	AQ	Ground Water	622017-SW-03S
JD73737-8D	09/26/23	14:57	MG	09/27/23	AQ	Water Dup/MSD	622017-SW-03S
JD73737-8S	09/26/23	14:57	MG	09/27/23	AQ	Water Matrix Spike	622017-SW-03S
JD73737-9	09/25/23	10:29	MG	09/27/23	AQ	Ground Water	622017-SW-04S
JD73737-10	09/25/23	10:43	MG	09/27/23	AQ	Ground Water	622017-SW-04D



Sample Summary
(continued)

EA Engineering

Job No: JD73737

NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY
Project No: 160253410013

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD73737-11	09/25/23	12:15 MG	09/27/23	AQ	Surface Water	622017-NDP
JD73737-12	09/25/23	11:35 MG	09/27/23	AQ	Surface Water	622017-SDP
JD73737-13	09/25/23	11:55 MG	09/27/23	AQ	Surface Water	622017-SWTR-1T
JD73737-14	09/25/23	11:13 MG	09/27/23	AQ	Surface Water	622017-SWTR-1E
JD73737-15	09/26/23	00:00 MG	09/27/23	AQ	Ground Water	622017-FD-092623
JD73737-16	09/26/23	16:00 MG	09/27/23	AQ	Trip Blank Water	622017-TB
JD73737-17	09/25/23	15:00 MG	09/27/23	AQ	Field Blank Water	622017-FB-01
JD73737-18	09/26/23	13:00 MG	09/27/23	AQ	Field Blank Water	622017-FB-02
JD73737-19	09/26/23	16:00 MG	09/27/23	AQ	Equipment Blank	622017-EB-01

Summary of Hits

Page 1 of 3

Job Number: JD73737**Account:** EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY**Collected:** 09/25/23 thru 09/26/23

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD73737-1 622017-MW-03

1,1-Dichloroethane	0.85 J	1.0	0.57	ug/l	SW846 8260D
cis-1,2-Dichloroethene	3.9	1.0	0.51	ug/l	SW846 8260D
1,4-Dioxane	0.114	0.10	0.050	ug/l	SW846 8270E BY SIM

JD73737-2 622017-MW-04

1,1-Dichloroethane	7.2	1.0	0.57	ug/l	SW846 8260D
cis-1,2-Dichloroethene	1.4	1.0	0.51	ug/l	SW846 8260D
1,4-Dioxane	1.12	0.10	0.050	ug/l	SW846 8270E BY SIM

JD73737-3 622017-MW-16

1,4-Dioxane	0.147	0.10	0.050	ug/l	SW846 8270E BY SIM
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JD73737-4 622017-SW-01S

No hits reported in this sample.

JD73737-5 622017-SW-01D

No hits reported in this sample.

JD73737-6 622017-SW-02S

No hits reported in this sample.

JD73737-7 622017-SW-02D

No hits reported in this sample.

JD73737-8 622017-SW-03S

No hits reported in this sample.

JD73737-9 622017-SW-04S

1,4-Dioxane	0.154	0.10	0.050	ug/l	SW846 8270E BY SIM
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JD73737-10 622017-SW-04D

No hits reported in this sample.

Summary of Hits

Job Number: JD73737

Account: EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Collected: 09/25/23 thru 09/26/23

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD73737-11	622017-NDP					
Acetone ^a		3.6 J	10	3.1	ug/l	SW846 8260D
1,4-Dioxane		0.145	0.10	0.050	ug/l	SW846 8270E BY SIM
JD73737-12	622017-SDP					
1,4-Dioxane		0.0896 J	0.10	0.050	ug/l	SW846 8270E BY SIM
JD73737-13	622017-SWTR-1T					
Acetone		3.9 J	10	3.1	ug/l	SW846 8260D
Benzene		0.77	0.50	0.43	ug/l	SW846 8260D
Chlorobenzene		2.5	1.0	0.56	ug/l	SW846 8260D
Chloroethane		0.93 J	1.0	0.73	ug/l	SW846 8260D
1,4-Dichlorobenzene		0.58 J	1.0	0.51	ug/l	SW846 8260D
1,4-Dioxane		0.537	0.10	0.050	ug/l	SW846 8270E BY SIM
JD73737-14	622017-SWTR-1E					
1,4-Dioxane		0.161	0.10	0.050	ug/l	SW846 8270E BY SIM
JD73737-15	622017-FD-092623					
No hits reported in this sample.						
JD73737-16	622017-TB					
No hits reported in this sample.						
JD73737-17	622017-FB-01					
Acetone ^a		17.3	10	3.1	ug/l	SW846 8260D
Toluene		0.63 J	1.0	0.49	ug/l	SW846 8260D
JD73737-18	622017-FB-02					
Acetone ^a		15.7	10	3.1	ug/l	SW846 8260D
Toluene		0.65 J	1.0	0.49	ug/l	SW846 8260D
JD73737-19	622017-EB-01					
Acetone ^a		18.9	10	3.1	ug/l	SW846 8260D
Toluene		0.49 J	1.0	0.49	ug/l	SW846 8260D

Summary of Hits

Job Number: JD73737
Account: EA Engineering
Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY
Collected: 09/25/23 thru 09/26/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	622017-MW-03	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-1	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2N5073.D	1	10/03/23 08:02	PS	n/a	n/a	V2N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	0.85	1.0	0.57	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.9	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-03	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-1	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	113%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-03	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-1	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E BY SIM SW846 3510C		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119231.D	1	10/02/23 18:35	KM	10/01/23 07:30	OP49459A	E4M5581
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.114	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		23-127%
321-60-8	2-Fluorobiphenyl	62%		23-114%
1718-51-0	Terphenyl-d14	44%		10-121%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-04	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-2	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1T4609.D	1	10/04/23 19:51	LD	n/a	n/a	V1T138
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform ^a	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane ^a	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	7.2	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane ^a	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.4	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene ^a	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-04	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-2	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene ^a	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene ^a	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-04	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-2	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E BY SIM SW846 3510C		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119232.D	1	10/02/23 18:58	KM	10/01/23 07:30	OP49459A	E4M5581
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	1,12	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		23-127%
321-60-8	2-Fluorobiphenyl	71%		23-114%
1718-51-0	Terphenyl-d14	51%		10-121%

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-16	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-3	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2N5071.D	1	10/03/23 07:34	PS	n/a	n/a	V2N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-16	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-3	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	117% ^b		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

(b) Outside of in house control limits, but within reasonable method recovery limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-MW-16	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-3	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E BY SIM SW846 3510C		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119233.D	1	10/02/23 19:21	KM	10/01/23 07:30	OP49459A	E4M5581
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.147	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		23-127%
321-60-8	2-Fluorobiphenyl	76%		23-114%
1718-51-0	Terphenyl-d14	54%		10-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-01S	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-4	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1N5070.D	1	10/03/23 07:20	PS	n/a	n/a	V1N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane ^a	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^a	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene ^a	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene ^a	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113 ^a	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-01S	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-4	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^a	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride ^a	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	110%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.4
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Client Sample ID:	622017-SW-01S	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-4	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E BY SIM SW846 3510C		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119234.D	1	10/02/23 19:44	KM	10/01/23 07:30	OP49459A	E4M5581
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
4165-60-0	Nitrobenzene-d5	84%		23-127%		
321-60-8	2-Fluorobiphenyl	79%		23-114%		
1718-51-0	Terphenyl-d14	33%		10-121%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-01D	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-5	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2N5069.D	1	10/03/23 07:06	PS	n/a	n/a	V2N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-01D	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-5	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	115% ^b		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

(b) Outside of in house control limits, but within reasonable method recovery limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-02S	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-6	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1N5068.D	1	10/03/23 06:53	PS	n/a	n/a	V1N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane ^a	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^a	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene ^a	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene ^a	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113 ^a	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-02S	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-6	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^a	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride ^a	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	92%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	111%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-02S	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-6	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E BY SIM SW846 3510C		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119235.D	1	10/02/23 20:07	KM	10/01/23 07:30	OP49459A	E4M5581
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.051	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		23-127%
321-60-8	2-Fluorobiphenyl	80%		23-114%
1718-51-0	Terphenyl-d14	34%		10-121%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-02D	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-7	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2N5067.D	1	10/03/23 06:39	PS	n/a	n/a	V2N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-02D	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-7	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	114%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-03S	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-8	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2N5037.D	1	10/02/23 23:44	PS	n/a	n/a	V2N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-03S	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-8	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	110%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-03S	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-8	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270E BY SIM SW846 3510C		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119236.D	1	10/02/23 20:29	KM	10/01/23 07:30	OP49459A	E4M5581
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	87%		23-127%
321-60-8	2-Fluorobiphenyl	79%		23-114%
1718-51-0	Terphenyl-d14	51%		10-121%

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-04S	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-9	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1N5066.D	1	10/03/23 06:25	PS	n/a	n/a	V1N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane ^a	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^a	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene ^a	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene ^a	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113 ^a	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-04S	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-9	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^a	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride ^a	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	111%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-04S	
Lab Sample ID:	JD73737-9	Date Sampled: 09/25/23
Matrix:	AQ - Ground Water	Date Received: 09/27/23
Method:	SW846 8270E BY SIM SW846 3510C	Percent Solids: n/a
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119237.D	1	10/02/23 20:51	KM	10/01/23 07:30	OP49459A	E4M5581
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.154	0.10	0.050	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
4165-60-0	Nitrobenzene-d5	70%		23-127%		
321-60-8	2-Fluorobiphenyl	67%		23-114%		
1718-51-0	Terphenyl-d14	48%		10-121%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-04D	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-10	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2N5065.D	1	10/03/23 06:11	PS	n/a	n/a	V2N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SW-04D	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-10	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	113%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-NDP	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-11	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1N5064.D	1	10/03/23 05:57	PS	n/a	n/a	V1N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	3.6	10	3.1	ug/l	J
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^b	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^b	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^b	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^b	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^b	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane ^b	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane ^b	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^b	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene ^b	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene ^b	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113 ^b	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-NDP	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-11	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^b	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride ^b	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^b	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^b	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	109%		82-114%

- (a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-NDP	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-11	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E BY SIM SW846 3510C		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119238.D	1	10/02/23 21:14	KM	10/01/23 07:30	OP49459A	E4M5581
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.145	0.10	0.050	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
4165-60-0	Nitrobenzene-d5	47%		23-127%		
321-60-8	2-Fluorobiphenyl	42%		23-114%		
1718-51-0	Terphenyl-d14	21%		10-121%		

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SDP	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-12	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2N5063.D	1	10/03/23 05:44	PS	n/a	n/a	V2N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SDP	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-12	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	108%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SDP						
Lab Sample ID:	JD73737-12					Date Sampled:	09/25/23
Matrix:	AQ - Surface Water					Date Received:	09/27/23
Method:	SW846 8270E BY SIM SW846 3510C					Percent Solids:	n/a
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119239.D	1	10/02/23 21:37	KM	10/01/23 07:30	OP49459A	E4M5581
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.0896	0.10	0.050	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		23-127%
321-60-8	2-Fluorobiphenyl	67%		23-114%
1718-51-0	Terphenyl-d14	31%		10-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1T	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-13	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1T4611.D	1	10/04/23 20:19	LD	n/a	n/a	V1T138
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3.9	10	3.1	ug/l	J
71-43-2	Benzene	0.77	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform ^a	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	2.5	1.0	0.56	ug/l	
75-00-3	Chloroethane	0.93	1.0	0.73	ug/l	J
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane ^a	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	0.58	1.0	0.51	ug/l	J
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane ^a	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene ^a	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1T	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-13	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene ^a	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene ^a	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	94%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1T	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-13	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E BY SIM SW846 3510C		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119254.D	1	10/03/23 04:08	RS	10/01/23 07:30	OP49459A	E4M5582
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.537	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		23-127%
321-60-8	2-Fluorobiphenyl	65%		23-114%
1718-51-0	Terphenyl-d14	29%		10-121%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1E	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-14	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2N5061.D	1	10/03/23 05:16	PS	n/a	n/a	V2N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1E	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-14	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	115% ^b		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

(b) Outside of in house control limits, but within reasonable method recovery limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-SWTR-1E	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-14	Date Received:	09/27/23
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8270E BY SIM SW846 3510C		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119255.D	1	10/03/23 04:30	RS	10/01/23 07:30	OP49459A	E4M5582
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.161	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		23-127%
321-60-8	2-Fluorobiphenyl	78%		23-114%
1718-51-0	Terphenyl-d14	47%		10-121%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FD-092623	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-15	Date Received:	09/27/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1N5060.D	1	10/03/23 05:02	PS	n/a	n/a	V1N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^a	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^a	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane ^a	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^a	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene ^a	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene ^a	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113 ^a	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 622017-FD-092623**Lab Sample ID:** JD73737-15**Date Sampled:** 09/26/23**Matrix:** AQ - Ground Water**Date Received:** 09/27/23**Method:** SW846 8260D**Percent Solids:** n/a**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^a	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride ^a	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	109%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FD-092623	
Lab Sample ID:	JD73737-15	Date Sampled: 09/26/23
Matrix:	AQ - Ground Water	Date Received: 09/27/23
Method:	SW846 8270E BY SIM SW846 3510C	Percent Solids: n/a
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M119256A.D	1	10/03/23 05:23	RS	10/01/23 07:30	OP49459A	E4M5582
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		23-127%
321-60-8	2-Fluorobiphenyl	61%		23-114%
1718-51-0	Terphenyl-d14	35%		10-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-TB	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-16	Date Received:	09/27/23
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D131966.D	1	10/10/23 19:58	NW	n/a	n/a	V4D5843
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-TB	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-16	Date Received:	09/27/23
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	100%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FB-01	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-17	Date Received:	09/27/23
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2N5047.D	1	10/03/23 02:03	PS	n/a	n/a	V2N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	17.3	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^b	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^b	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^b	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^b	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^b	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FB-01	Date Sampled:	09/25/23
Lab Sample ID:	JD73737-17	Date Received:	09/27/23
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	0.63	1.0	0.49	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^b	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^b	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	93%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	114%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FB-02	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-18	Date Received:	09/27/23
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1N5048.D	1	10/03/23 02:17	PS	n/a	n/a	V1N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	15.7	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^b	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^b	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^b	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^b	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^b	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane ^b	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane ^b	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^b	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene ^b	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene ^b	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113 ^b	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-FB-02	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-18	Date Received:	09/27/23
Matrix:	AQ - Field Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^b	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride ^b	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	0.65	1.0	0.49	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^b	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^b	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	110%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-EB-01	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-19	Date Received:	09/27/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2N5049.D	1	10/03/23 02:30	PS	n/a	n/a	V2N135
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	18.9	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane ^b	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide ^b	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^b	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^b	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^b	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	622017-EB-01	Date Sampled:	09/26/23
Lab Sample ID:	JD73737-19	Date Received:	09/27/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	0.49	1.0	0.49	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^b	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^b	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	110%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

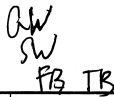
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

JS-09123-110

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[illegible]

EHSA-QAC-0023-05 Rev.Date:8/5/22

JD73737: Chain of Custody

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JD73737

SGS Sample Receipt Summary

Job Number: JD73737

Client: EA ENGINEERING

Project: NYSDEC SMP-D SITE- ROSE VALLEY LA

Date / Time Received: 9/27/2023 5:15:00 PM

Delivery Method: _____

Airbill #s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (4.7); Cooler 2: (4.8); Cooler 3: (4.9);

Cooler Temps (Corrected) °C: Cooler 1: (4.4); Cooler 2: (4.5); Cooler 3: (4.6);

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: IR Gun 40
3. Cooler media: Ice (Bag)
4. No. Coolers: 3

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____

Comments

SM089-03
Rev. Date 12/7/17

JD73737: Chain of Custody

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MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 2

Job Number: JD73737**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2N135-MB	2N5035.D	1	10/02/23	PS	n/a	n/a	V2N135

The QC reported here applies to the following samples:**Method:** SW846 8260D

JD73737-1, JD73737-3, JD73737-5, JD73737-7, JD73737-8, JD73737-10, JD73737-12, JD73737-14, JD73737-17, JD73737-19

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2N135-MB	2N5035.D	1	10/02/23	PS	n/a	n/a	V2N135

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-1, JD73737-3, JD73737-5, JD73737-7, JD73737-8, JD73737-10, JD73737-12, JD73737-14, JD73737-17, JD73737-19

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	98% 80-120%
17060-07-0	1,2-Dichloroethane-D4	93% 80-120%
2037-26-5	Toluene-D8	99% 80-120%
460-00-4	4-Bromofluorobenzene	112% 82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.09	5.5	ug/l	J
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

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Job Number: JD73737**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1N135-MB	1N5036.D	1	10/02/23	PS	n/a	n/a	V1N135

The QC reported here applies to the following samples:**Method:** SW846 8260D

JD73737-4, JD73737-6, JD73737-9, JD73737-11, JD73737-15, JD73737-18

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1N135-MB	1N5036.D	1	10/02/23	PS	n/a	n/a	V1N135

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-4, JD73737-6, JD73737-9, JD73737-11, JD73737-15, JD73737-18

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 80-120%
17060-07-0	1,2-Dichloroethane-D4	96% 80-120%
2037-26-5	Toluene-D8	98% 80-120%
460-00-4	4-Bromofluorobenzene	107% 82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.07	5.7	ug/l	J
	Total TIC, Volatile		0	ug/l	

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Job Number: JD73737**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1T138-MB	1T4579.D	1	10/04/23	LD	n/a	n/a	V1T138

The QC reported here applies to the following samples:**Method:** SW846 8260D

JD73737-2, JD73737-13

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1T138-MB	1T4579.D	1	10/04/23	LD	n/a	n/a	V1T138

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-2, JD73737-13

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 80-120%
17060-07-0	1,2-Dichloroethane-D4	96% 80-120%
2037-26-5	Toluene-D8	103% 80-120%
460-00-4	4-Bromofluorobenzene	95% 82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.04	7.8	ug/l	J
	Total TIC, Volatile		0	ug/l	

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Job Number: JD73737**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5843-MB	4D131950.D	1	10/10/23	NW	n/a	n/a	V4D5843

The QC reported here applies to the following samples:**Method:** SW846 8260D

JD73737-16

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5843-MB	4D131950.D	1	10/10/23	NW	n/a	n/a	V4D5843

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-16

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 80-120%
17060-07-0	1,2-Dichloroethane-D4	102% 80-120%
2037-26-5	Toluene-D8	102% 80-120%
460-00-4	4-Bromofluorobenzene	101% 82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	4.27	6.2	ug/l	J
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

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Job Number: JD73737**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1N135-BS	1N5032.D	1	10/02/23	PS	n/a	n/a	V1N135

The QC reported here applies to the following samples:**Method:** SW846 8260D

JD73737-4, JD73737-6, JD73737-9, JD73737-11, JD73737-15, JD73737-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	122	61	27-175
71-43-2	Benzene	50	42.7	85	80-115
74-97-5	Bromochloromethane	50	42.7	85	83-122
75-27-4	Bromodichloromethane	50	47.5	95	82-119
75-25-2	Bromoform	50	53.0	106	77-135
74-83-9	Bromomethane	50	22.1	44	40-162
78-93-3	2-Butanone (MEK)	200	150	75	61-150
75-15-0	Carbon disulfide	50	36.1	72	64-130
56-23-5	Carbon tetrachloride	50	42.7	85	75-127
108-90-7	Chlorobenzene	50	45.3	91	80-115
75-00-3	Chloroethane	50	30.9	62	56-144
67-66-3	Chloroform	50	36.8	74* a	75-116
74-87-3	Chloromethane	50	31.6	63	41-153
110-82-7	Cyclohexane	50	37.0	74	66-129
96-12-8	1,2-Dibromo-3-chloropropane	50	49.1	98	69-134
124-48-1	Dibromochloromethane	50	50.5	101	81-123
106-93-4	1,2-Dibromoethane	50	48.6	97	67-138
95-50-1	1,2-Dichlorobenzene	50	48.3	97	81-117
541-73-1	1,3-Dichlorobenzene	50	46.8	94	81-115
106-46-7	1,4-Dichlorobenzene	50	44.5	89	80-114
75-71-8	Dichlorodifluoromethane	50	32.9	66	43-152
75-34-3	1,1-Dichloroethane	50	37.8	76	75-125
107-06-2	1,2-Dichloroethane	50	41.1	82	73-117
75-35-4	1,1-Dichloroethene	50	36.2	72	70-124
156-59-2	cis-1,2-Dichloroethene	50	42.6	85	80-120
156-60-5	trans-1,2-Dichloroethene	50	38.3	77	77-121
78-87-5	1,2-Dichloropropane	50	43.3	87	79-121
10061-01-5	cis-1,3-Dichloropropene	50	44.6	89	83-123
10061-02-6	trans-1,3-Dichloropropene	50	45.8	92	83-122
100-41-4	Ethylbenzene	50	44.2	88	78-116
76-13-1	Freon 113	50	34.1	68	68-134
591-78-6	2-Hexanone	200	183	92	66-136
98-82-8	Isopropylbenzene	50	48.4	97	78-121
79-20-9	Methyl Acetate	50	43.0	86	60-143
108-87-2	Methylcyclohexane	50	37.7	75	71-123
1634-04-4	Methyl Tert Butyl Ether	50	41.6	83	76-123

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1N135-BS	1N5032.D	1	10/02/23	PS	n/a	n/a	V1N135

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-4, JD73737-6, JD73737-9, JD73737-11, JD73737-15, JD73737-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	181	91	73-134
75-09-2	Methylene chloride	50	39.8	80	73-123
100-42-5	Styrene	50	49.0	98	81-125
79-34-5	1,1,2,2-Tetrachloroethane	50	47.0	94	73-126
127-18-4	Tetrachloroethene	50	39.6	79	73-119
108-88-3	Toluene	50	44.9	90	79-116
87-61-6	1,2,3-Trichlorobenzene	50	45.8	92	63-137
120-82-1	1,2,4-Trichlorobenzene	50	48.5	97	68-135
71-55-6	1,1,1-Trichloroethane	50	42.0	84	76-124
79-00-5	1,1,2-Trichloroethane	50	46.5	93	83-117
79-01-6	Trichloroethene	50	43.1	86	80-118
75-69-4	Trichlorofluoromethane	50	34.1	68	67-134
75-01-4	Vinyl chloride	50	31.4	63	52-146
	m,p-Xylene	100	96.0	96	79-119
95-47-6	o-Xylene	50	47.0	94	81-119
1330-20-7	Xylene (total)	150	143	95	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	91%	80-120%
17060-07-0	1,2-Dichloroethane-D4	92%	80-120%
2037-26-5	Toluene-D8	94%	80-120%
460-00-4	4-Bromofluorobenzene	108%	82-114%

(a) Outside of in house control limits, but within the marginal exceedance limits.

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JD73737**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2N135-BS	2N5033.D	1	10/02/23	PS	n/a	n/a	V2N135

The QC reported here applies to the following samples:**Method:** SW846 8260D

JD73737-1, JD73737-3, JD73737-5, JD73737-7, JD73737-8, JD73737-10, JD73737-12, JD73737-14, JD73737-17, JD73737-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	115	58	27-175
71-43-2	Benzene	50	46.1	92	80-115
74-97-5	Bromochloromethane	50	45.8	92	83-122
75-27-4	Bromodichloromethane	50	47.8	96	82-119
75-25-2	Bromoform	50	54.7	109	77-135
74-83-9	Bromomethane	50	22.8	46	40-162
78-93-3	2-Butanone (MEK)	200	143	72	61-150
75-15-0	Carbon disulfide	50	39.7	79	64-130
56-23-5	Carbon tetrachloride	50	48.9	98	75-127
108-90-7	Chlorobenzene	50	49.9	100	80-115
75-00-3	Chloroethane	50	32.1	64	56-144
67-66-3	Chloroform	50	38.6	77	75-116
74-87-3	Chloromethane	50	36.7	73	41-153
110-82-7	Cyclohexane	50	43.1	86	66-129
96-12-8	1,2-Dibromo-3-chloropropane	50	52.8	106	69-134
124-48-1	Dibromochloromethane	50	54.0	108	81-123
106-93-4	1,2-Dibromoethane	50	50.5	101	67-138
95-50-1	1,2-Dichlorobenzene	50	51.6	103	81-117
541-73-1	1,3-Dichlorobenzene	50	51.4	103	81-115
106-46-7	1,4-Dichlorobenzene	50	47.8	96	80-114
75-71-8	Dichlorodifluoromethane	50	40.5	81	43-152
75-34-3	1,1-Dichloroethane	50	42.9	86	75-125
107-06-2	1,2-Dichloroethane	50	47.1	94	73-117
75-35-4	1,1-Dichloroethene	50	40.7	81	70-124
156-59-2	cis-1,2-Dichloroethene	50	44.4	89	80-120
156-60-5	trans-1,2-Dichloroethene	50	43.9	88	77-121
78-87-5	1,2-Dichloropropane	50	44.8	90	79-121
10061-01-5	cis-1,3-Dichloropropene	50	46.0	92	83-123
10061-02-6	trans-1,3-Dichloropropene	50	47.1	94	83-122
100-41-4	Ethylbenzene	50	48.3	97	78-116
76-13-1	Freon 113	50	41.5	83	68-134
591-78-6	2-Hexanone	200	182	91	66-136
98-82-8	Isopropylbenzene	50	52.4	105	78-121
79-20-9	Methyl Acetate	50	41.3	83	60-143
108-87-2	Methylcyclohexane	50	44.2	88	71-123
1634-04-4	Methyl Tert Butyl Ether	50	42.5	85	76-123

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2N135-BS	2N5033.D	1	10/02/23	PS	n/a	n/a	V2N135

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-1, JD73737-3, JD73737-5, JD73737-7, JD73737-8, JD73737-10, JD73737-12, JD73737-14, JD73737-17, JD73737-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	182	91	73-134
75-09-2	Methylene chloride	50	45.0	90	73-123
100-42-5	Styrene	50	55.3	111	81-125
79-34-5	1,1,2,2-Tetrachloroethane	50	48.3	97	73-126
127-18-4	Tetrachloroethene	50	47.5	95	73-119
108-88-3	Toluene	50	47.4	95	79-116
87-61-6	1,2,3-Trichlorobenzene	50	48.1	96	63-137
120-82-1	1,2,4-Trichlorobenzene	50	48.2	96	68-135
71-55-6	1,1,1-Trichloroethane	50	45.8	92	76-124
79-00-5	1,1,2-Trichloroethane	50	47.1	94	83-117
79-01-6	Trichloroethene	50	48.8	98	80-118
75-69-4	Trichlorofluoromethane	50	35.3	71	67-134
75-01-4	Vinyl chloride	50	34.7	69	52-146
	m,p-Xylene	100	107	107	79-119
95-47-6	o-Xylene	50	53.1	106	81-119
1330-20-7	Xylene (total)	150	160	107	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	91%	80-120%
17060-07-0	1,2-Dichloroethane-D4	93%	80-120%
2037-26-5	Toluene-D8	93%	80-120%
460-00-4	4-Bromofluorobenzene	109%	82-114%

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JD73737**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1T138-BS	1T4575.D	1	10/04/23	LD	n/a	n/a	V1T138

The QC reported here applies to the following samples:**Method:** SW846 8260D

JD73737-2, JD73737-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	230	115	27-175
71-43-2	Benzene	50	44.7	89	80-115
74-97-5	Bromochloromethane	50	45.7	91	83-122
75-27-4	Bromodichloromethane	50	45.7	91	82-119
75-25-2	Bromoform	50	47.3	95	77-135
74-83-9	Bromomethane	50	41.3	83	40-162
78-93-3	2-Butanone (MEK)	200	222	111	61-150
75-15-0	Carbon disulfide	50	35.9	72	64-130
56-23-5	Carbon tetrachloride	50	42.2	84	75-127
108-90-7	Chlorobenzene	50	45.7	91	80-115
75-00-3	Chloroethane	50	57.3	115	56-144
67-66-3	Chloroform	50	43.8	88	75-116
74-87-3	Chloromethane	50	49.7	99	41-153
110-82-7	Cyclohexane	50	41.2	82	66-129
96-12-8	1,2-Dibromo-3-chloropropane	50	46.7	93	69-134
124-48-1	Dibromochloromethane	50	46.4	93	81-123
106-93-4	1,2-Dibromoethane	50	45.9	92	67-138
95-50-1	1,2-Dichlorobenzene	50	47.5	95	81-117
541-73-1	1,3-Dichlorobenzene	50	47.1	94	81-115
106-46-7	1,4-Dichlorobenzene	50	46.1	92	80-114
75-71-8	Dichlorodifluoromethane	50	41.6	83	43-152
75-34-3	1,1-Dichloroethane	50	44.9	90	75-125
107-06-2	1,2-Dichloroethane	50	41.1	82	73-117
75-35-4	1,1-Dichloroethene	50	41.8	84	70-124
156-59-2	cis-1,2-Dichloroethene	50	46.5	93	80-120
156-60-5	trans-1,2-Dichloroethene	50	43.8	88	77-121
78-87-5	1,2-Dichloropropane	50	48.2	96	79-121
10061-01-5	cis-1,3-Dichloropropene	50	48.7	97	83-123
10061-02-6	trans-1,3-Dichloropropene	50	48.4	97	83-122
100-41-4	Ethylbenzene	50	42.7	85	78-116
76-13-1	Freon 113	50	42.1	84	68-134
591-78-6	2-Hexanone	200	224	112	66-136
98-82-8	Isopropylbenzene	50	45.0	90	78-121
79-20-9	Methyl Acetate	50	49.8	100	60-143
108-87-2	Methylcyclohexane	50	42.4	85	71-123
1634-04-4	Methyl Tert Butyl Ether	50	44.4	89	76-123

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1T138-BS	1T4575.D	1	10/04/23	LD	n/a	n/a	V1T138

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-2, JD73737-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	209	105	73-134
75-09-2	Methylene chloride	50	45.0	90	73-123
100-42-5	Styrene	50	48.2	96	81-125
79-34-5	1,1,2,2-Tetrachloroethane	50	49.4	99	73-126
127-18-4	Tetrachloroethene	50	43.4	87	73-119
108-88-3	Toluene	50	45.3	91	79-116
87-61-6	1,2,3-Trichlorobenzene	50	44.7	89	63-137
120-82-1	1,2,4-Trichlorobenzene	50	45.1	90	68-135
71-55-6	1,1,1-Trichloroethane	50	41.2	82	76-124
79-00-5	1,1,2-Trichloroethane	50	46.1	92	83-117
79-01-6	Trichloroethene	50	45.7	91	80-118
75-69-4	Trichlorofluoromethane	50	47.4	95	67-134
75-01-4	Vinyl chloride	50	47.1	94	52-146
	m,p-Xylene	100	91.4	91	79-119
95-47-6	o-Xylene	50	46.2	92	81-119
1330-20-7	Xylene (total)	150	138	92	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	80-120%
17060-07-0	1,2-Dichloroethane-D4	93%	80-120%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	96%	82-114%

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JD73737**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5843-BS	4D131948.D	1	10/10/23	NW	n/a	n/a	V4D5843

The QC reported here applies to the following samples:**Method:** SW846 8260D

JD73737-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	253	127	27-175
71-43-2	Benzene	50	41.1	82	80-115
74-97-5	Bromochloromethane	50	46.3	93	83-122
75-27-4	Bromodichloromethane	50	43.1	86	82-119
75-25-2	Bromoform	50	46.5	93	77-135
74-83-9	Bromomethane	50	47.3	95	40-162
78-93-3	2-Butanone (MEK)	200	221	111	61-150
75-15-0	Carbon disulfide	50	43.1	86	64-130
56-23-5	Carbon tetrachloride	50	40.6	81	75-127
108-90-7	Chlorobenzene	50	42.3	85	80-115
75-00-3	Chloroethane	50	40.1	80	56-144
67-66-3	Chloroform	50	45.5	91	75-116
74-87-3	Chloromethane	50	40.9	82	41-153
110-82-7	Cyclohexane	50	32.0	64* a	66-129
96-12-8	1,2-Dibromo-3-chloropropane	50	48.4	97	69-134
124-48-1	Dibromochloromethane	50	45.1	90	81-123
106-93-4	1,2-Dibromoethane	50	45.0	90	67-138
95-50-1	1,2-Dichlorobenzene	50	44.3	89	81-117
541-73-1	1,3-Dichlorobenzene	50	43.2	86	81-115
106-46-7	1,4-Dichlorobenzene	50	44.1	88	80-114
75-71-8	Dichlorodifluoromethane	50	29.4	59	43-152
75-34-3	1,1-Dichloroethane	50	42.9	86	75-125
107-06-2	1,2-Dichloroethane	50	42.9	86	73-117
75-35-4	1,1-Dichloroethene	50	41.6	83	70-124
156-59-2	cis-1,2-Dichloroethene	50	42.5	85	80-120
156-60-5	trans-1,2-Dichloroethene	50	42.8	86	77-121
78-87-5	1,2-Dichloropropane	50	43.4	87	79-121
10061-01-5	cis-1,3-Dichloropropene	50	44.2	88	83-123
10061-02-6	trans-1,3-Dichloropropene	50	44.5	89	83-122
100-41-4	Ethylbenzene	50	40.6	81	78-116
76-13-1	Freon 113	50	40.4	81	68-134
591-78-6	2-Hexanone	200	187	94	66-136
98-82-8	Isopropylbenzene	50	39.5	79	78-121
79-20-9	Methyl Acetate	50	48.5	97	60-143
108-87-2	Methylcyclohexane	50	34.1	68* a	71-123
1634-04-4	Methyl Tert Butyl Ether	50	47.8	96	76-123

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5843-BS	4D131948.D	1	10/10/23	NW	n/a	n/a	V4D5843

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	178	89	73-134
75-09-2	Methylene chloride	50	41.7	83	73-123
100-42-5	Styrene	50	42.9	86	81-125
79-34-5	1,1,2,2-Tetrachloroethane	50	45.0	90	73-126
127-18-4	Tetrachloroethene	50	39.1	78	73-119
108-88-3	Toluene	50	41.2	82	79-116
87-61-6	1,2,3-Trichlorobenzene	50	45.6	91	63-137
120-82-1	1,2,4-Trichlorobenzene	50	47.2	94	68-135
71-55-6	1,1,1-Trichloroethane	50	40.8	82	76-124
79-00-5	1,1,2-Trichloroethane	50	43.4	87	83-117
79-01-6	Trichloroethene	50	41.3	83	80-118
75-69-4	Trichlorofluoromethane	50	36.0	72	67-134
75-01-4	Vinyl chloride	50	38.7	77	52-146
	m,p-Xylene	100	81.5	82	79-119
95-47-6	o-Xylene	50	42.0	84	81-119
1330-20-7	Xylene (total)	150	124	83	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	98%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	99%	82-114%

(a) Outside of in house control limits, but within the marginal exceedance limits.

* = Outside of Control Limits.

Matrix Spike Summary

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD74316-2MS	4D131960.D	1	10/10/23	NW	n/a	n/a	V4D5843
JD74316-2	4D131956.D	1	10/10/23	NW	n/a	n/a	V4D5843

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-16

CAS No.	Compound	JD74316-2 ug/l	Spike Q	MS ug/l	MS %	Limits
67-64-1	Acetone	ND	200	156	78	22-134
71-43-2	Benzene	ND	50	52.3	105	49-137
74-97-5	Bromochloromethane	ND	50	57.0	114	78-122
75-27-4	Bromodichloromethane	ND	50	51.3	103	76-121
75-25-2	Bromoform	ND	50	51.8	104	70-133
74-83-9	Bromomethane	ND	50	39.0	78	27-164
78-93-3	2-Butanone (MEK)	ND	200	200	100	52-137
75-15-0	Carbon disulfide	ND	50	59.3	119	54-136
56-23-5	Carbon tetrachloride	ND	50	61.3	123	70-132
108-90-7	Chlorobenzene	ND	50	52.3	105	68-123
75-00-3	Chloroethane	ND	50	57.3	115	48-152
67-66-3	Chloroform	ND	50	59.9	120	68-120
74-87-3	Chloromethane	ND	50	52.2	104	35-156
110-82-7	Cyclohexane	ND	50	58.6	117	53-146
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	53.6	107	63-134
124-48-1	Dibromochloromethane	ND	50	51.2	102	75-122
106-93-4	1,2-Dibromoethane	ND	50	50.2	100	63-134
95-50-1	1,2-Dichlorobenzene	ND	50	53.0	106	74-119
541-73-1	1,3-Dichlorobenzene	ND	50	53.2	106	75-117
106-46-7	1,4-Dichlorobenzene	ND	50	53.3	107	72-117
75-71-8	Dichlorodifluoromethane	ND	50	57.5	115	34-163
75-34-3	1,1-Dichloroethane	ND	50	57.4	115	68-129
107-06-2	1,2-Dichloroethane	ND	50	49.3	99	66-120
75-35-4	1,1-Dichloroethene	ND	50	60.5	121	59-133
156-59-2	cis-1,2-Dichloroethene	2.4	50	59.1	113	52-140
156-60-5	trans-1,2-Dichloroethene	1.3	50	60.6	119	70-125
78-87-5	1,2-Dichloropropane	ND	50	52.6	105	73-124
10061-01-5	cis-1,3-Dichloropropene	ND	50	53.5	107	75-125
10061-02-6	trans-1,3-Dichloropropene	ND	50	50.4	101	75-122
100-41-4	Ethylbenzene	ND	50	52.2	104	37-144
76-13-1	Freon 113	ND	50	64.0	128	61-142
591-78-6	2-Hexanone	ND	200	188	94	56-132
98-82-8	Isopropylbenzene	ND	50	53.1	106	71-126
79-20-9	Methyl Acetate	ND	50	54.1	108	51-139
108-87-2	Methylcyclohexane	ND	50	56.0	112	59-137
1634-04-4	Methyl Tert Butyl Ether	ND	50	56.1	112	66-124

* = Outside of Control Limits.

Matrix Spike Summary

Page 2 of 2

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD74316-2MS	4D131960.D	1	10/10/23	NW	n/a	n/a	V4D5843
JD74316-2	4D131956.D	1	10/10/23	NW	n/a	n/a	V4D5843

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-16

CAS No.	Compound	JD74316-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		200	200	100	65-135
75-09-2	Methylene chloride	ND		50	52.0	104	66-125
100-42-5	Styrene	ND		50	51.3	103	71-133
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	52.1	104	68-127
127-18-4	Tetrachloroethene	ND		50	54.4	109	58-132
108-88-3	Toluene	ND		50	53.2	106	46-139
87-61-6	1,2,3-Trichlorobenzene	ND		50	53.2	106	57-136
120-82-1	1,2,4-Trichlorobenzene	ND		50	54.9	110	61-137
71-55-6	1,1,1-Trichloroethane	ND		50	60.7	121	67-132
79-00-5	1,1,2-Trichloroethane	ND		50	49.5	99	75-120
79-01-6	Trichloroethene	0.99	J	50	55.8	110	56-136
75-69-4	Trichlorofluoromethane	ND		50	64.5	129	61-145
75-01-4	Vinyl chloride	4.6		50	66.2	123	41-156
	m,p-Xylene	ND		100	105	105	32-151
95-47-6	o-Xylene	ND		50	52.4	105	50-139
1330-20-7	Xylene (total)	ND		150	157	105	38-147

CAS No.	Surrogate Recoveries	MS	JD74316-2	Limits
1868-53-7	Dibromofluoromethane	113%	112%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	104%	80-120%
2037-26-5	Toluene-D8	100%	102%	80-120%
460-00-4	4-Bromofluorobenzene	101%	100%	82-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD73737-8MS	2N5039.D	1	10/03/23	PS	n/a	n/a	V2N135
JD73737-8MSD	2N5041.D	1	10/03/23	PS	n/a	n/a	V2N135
JD73737-8	2N5037.D	1	10/02/23	PS	n/a	n/a	V2N135

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-1, JD73737-3, JD73737-5, JD73737-7, JD73737-8, JD73737-10, JD73737-12, JD73737-14, JD73737-17, JD73737-19

CAS No.	Compound	JD73737-8 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	200	111	56	200	117	59	5	22-134/19
71-43-2	Benzene	ND	50	45.9	92	50	47.3	95	3	49-137/12
74-97-5	Bromochloromethane	ND	50	43.7	87	50	46.9	94	7	78-122/12
75-27-4	Bromodichloromethane	ND	50	46.1	92	50	49.0	98	6	76-121/12
75-25-2	Bromoform	ND	50	52.2	104	50	53.6	107	3	70-133/13
74-83-9	Bromomethane	ND	50	26.0	52	50	25.5	51	2	27-164/38
78-93-3	2-Butanone (MEK)	ND	200	140	70	200	146	73	4	52-137/17
75-15-0	Carbon disulfide	ND	50	39.8	80	50	44.5	89	11	54-136/16
56-23-5	Carbon tetrachloride	ND	50	48.8	98	50	54.0	108	10	70-132/13
108-90-7	Chlorobenzene	ND	50	48.1	96	50	47.7	95	1	68-123/12
75-00-3	Chloroethane	ND	50	34.4	69	50	30.6	61	12	48-152/17
67-66-3	Chloroform	ND	50	37.2	74	50	40.0	80	7	68-120/13
74-87-3	Chloromethane	ND	50	35.3	71	50	38.5	77	9	35-156/18
110-82-7	Cyclohexane	ND	50	48.4	97	50	47.4	95	2	53-146/14
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	50.2	100	50	52.8	106	5	63-134/16
124-48-1	Dibromochloromethane	ND	50	51.1	102	50	51.4	103	1	75-122/12
106-93-4	1,2-Dibromoethane	ND	50	51.7	103	50	49.8	100	4	63-134/12
95-50-1	1,2-Dichlorobenzene	ND	50	49.3	99	50	52.8	106	7	74-119/12
541-73-1	1,3-Dichlorobenzene	ND	50	48.9	98	50	53.2	106	8	75-117/12
106-46-7	1,4-Dichlorobenzene	ND	50	44.9	90	50	47.1	94	5	72-117/12
75-71-8	Dichlorodifluoromethane	ND	50	41.9	84	50	46.5	93	10	34-163/16
75-34-3	1,1-Dichloroethane	ND	50	40.6	81	50	44.3	89	9	68-129/13
107-06-2	1,2-Dichloroethane	ND	50	44.9	90	50	46.6	93	4	66-120/13
75-35-4	1,1-Dichloroethene	ND	50	41.8	84	50	46.3	93	10	59-133/15
156-59-2	cis-1,2-Dichloroethene	ND	50	41.8	84	50	46.2	92	10	52-140/12
156-60-5	trans-1,2-Dichloroethene	ND	50	41.9	84	50	47.6	95	13	70-125/13
78-87-5	1,2-Dichloropropane	ND	50	44.4	89	50	46.5	93	5	73-124/12
10061-01-5	cis-1,3-Dichloropropene	ND	50	45.9	92	50	47.3	95	3	75-125/13
10061-02-6	trans-1,3-Dichloropropene	ND	50	45.7	91	50	46.3	93	1	75-122/12
100-41-4	Ethylbenzene	ND	50	46.6	93	50	46.6	93	0	37-144/12
76-13-1	Freon 113	ND	50	44.7	89	50	50.0	100	11	61-142/14
591-78-6	2-Hexanone	ND	200	176	88	200	176	88	0	56-132/16
98-82-8	Isopropylbenzene	ND	50	52.2	104	50	51.5	103	1	71-126/13
79-20-9	Methyl Acetate	ND	50	36.9	74	50	39.1	78	6	51-139/18
108-87-2	Methylcyclohexane	ND	50	51.5	103	50	49.3	99	4	59-137/16
1634-04-4	Methyl Tert Butyl Ether	ND	50	39.5	79	50	43.8	88	10	66-124/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD73737-8MS	2N5039.D	1	10/03/23	PS	n/a	n/a	V2N135
JD73737-8MSD	2N5041.D	1	10/03/23	PS	n/a	n/a	V2N135
JD73737-8	2N5037.D	1	10/02/23	PS	n/a	n/a	V2N135

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-1, JD73737-3, JD73737-5, JD73737-7, JD73737-8, JD73737-10, JD73737-12, JD73737-14, JD73737-17, JD73737-19

CAS No.	Compound	JD73737-8 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	200	184	92	200	181	91	2	65-135/14
75-09-2	Methylene chloride	ND	50	41.5	83	50	45.9	92	10	66-125/14
100-42-5	Styrene	ND	50	53.3	107	50	53.8	108	1	71-133/12
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	46.8	94	50	49.2	98	5	68-127/14
127-18-4	Tetrachloroethene	ND	50	47.8	96	50	47.7	95	0	58-132/13
108-88-3	Toluene	ND	50	45.5	91	50	46.5	93	2	46-139/12
87-61-6	1,2,3-Trichlorobenzene	ND	50	47.1	94	50	48.8	98	4	57-136/17
120-82-1	1,2,4-Trichlorobenzene	ND	50	48.9	98	50	48.7	97	0	61-137/16
71-55-6	1,1,1-Trichloroethane	ND	50	45.1	90	50	50.3	101	11	67-132/13
79-00-5	1,1,2-Trichloroethane	ND	50	46.2	92	50	44.6	89	4	75-120/12
79-01-6	Trichloroethene	ND	50	47.4	95	50	50.3	101	6	56-136/12
75-69-4	Trichlorofluoromethane	ND	50	39.4	79	50	36.4	73	8	61-145/16
75-01-4	Vinyl chloride	ND	50	38.4	77	50	34.8	70	10	41-156/16
	m,p-Xylene	ND	100	102	102	100	103	103	1	32-151/12
95-47-6	o-Xylene	ND	50	49.7	99	50	51.8	104	4	50-139/12
1330-20-7	Xylene (total)	ND	150	152	101	150	155	103	2	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JD73737-8	Limits
1868-53-7	Dibromofluoromethane	94%	93%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	96%	93%	98%	80-120%
2037-26-5	Toluene-D8	96%	95%	101%	80-120%
460-00-4	4-Bromofluorobenzene	104%	113%	110%	82-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD73841-4MS	1N5040.D	25	10/03/23	PS	n/a	n/a	V1N135
JD73841-4MSD	1N5042.D	25	10/03/23	PS	n/a	n/a	V1N135
JD73841-4 ^a	1N5038.D	25	10/02/23	PS	n/a	n/a	V1N135

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-4, JD73737-6, JD73737-9, JD73737-11, JD73737-15, JD73737-18

CAS No.	Compound	JD73841-4		Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q								
67-64-1	Acetone	ND		5000	3220	64	5000	3170	63	2	22-134/19
71-43-2	Benzene	ND		1250	1300	104	1250	1280	102	2	49-137/12
74-97-5	Bromochloromethane	ND		1250	1080	86	1250	1080	86	0	78-122/12
75-27-4	Bromodichloromethane	ND		1250	1380	110	1250	1350	108	2	76-121/12
75-25-2	Bromoform	ND		1250	1350	108	1250	1350	108	0	70-133/13
74-83-9	Bromomethane	ND		1250	582	47	1250	598	48	3	27-164/38
78-93-3	2-Butanone (MEK)	ND		5000	4070	81	5000	3830	77	6	52-137/17
75-15-0	Carbon disulfide	ND		1250	989	79	1250	929	74	6	54-136/16
56-23-5	Carbon tetrachloride	ND		1250	1220	98	1250	1190	95	2	70-132/13
108-90-7	Chlorobenzene	ND		1250	1150	92	1250	1180	94	3	68-123/12
75-00-3	Chloroethane	ND		1250	767	61	1250	709	57	8	48-152/17
67-66-3	Chloroform	ND		1250	962	77	1250	913	73	5	68-120/13
74-87-3	Chloromethane	ND		1250	830	66	1250	808	65	3	35-156/18
110-82-7	Cyclohexane	ND		1250	1010	81	1250	954	76	6	53-146/14
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1260	101	1250	1320	106	5	63-134/16
124-48-1	Dibromochloromethane	ND		1250	1260	101	1250	1270	102	1	75-122/12
106-93-4	1,2-Dibromoethane	ND		1250	1270	102	1250	1280	102	1	63-134/12
95-50-1	1,2-Dichlorobenzene	ND		1250	1180	94	1250	1190	95	1	74-119/12
541-73-1	1,3-Dichlorobenzene	ND		1250	1210	97	1250	1180	94	3	75-117/12
106-46-7	1,4-Dichlorobenzene	ND		1250	1130	90	1250	1120	90	1	72-117/12
75-71-8	Dichlorodifluoromethane	ND		1250	962	77	1250	939	75	2	34-163/16
75-34-3	1,1-Dichloroethane	ND		1250	1000	80	1250	985	79	2	68-129/13
107-06-2	1,2-Dichloroethane	ND		1250	1280	102	1250	1290	103	1	66-120/13
75-35-4	1,1-Dichloroethene	42.6		1250	1050	81	1250	1000	77	5	59-133/15
156-59-2	cis-1,2-Dichloroethene	7630	E	1250	7420	-17* b	1250	7270	-29* b	2	52-140/12
156-60-5	trans-1,2-Dichloroethene	21.2	J	1250	1060	83	1250	992	78	7	70-125/13
78-87-5	1,2-Dichloropropane	ND		1250	1250	100	1250	1270	102	2	73-124/12
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1340	107	1250	1360	109	1	75-125/13
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1190	95	1250	1190	95	0	75-122/12
100-41-4	Ethylbenzene	ND		1250	1130	90	1250	1140	91	1	37-144/12
76-13-1	Freon 113	ND		1250	1010	81	1250	985	79	3	61-142/14
591-78-6	2-Hexanone	ND		5000	4470	89	5000	4470	89	0	56-132/16
98-82-8	Isopropylbenzene	ND		1250	1220	98	1250	1250	100	2	71-126/13
79-20-9	Methyl Acetate	ND		1250	1110	89	1250	1050	84	6	51-139/18
108-87-2	Methylcyclohexane	ND		1250	1360	109	1250	1330	106	2	59-137/16
1634-04-4	Methyl Tert Butyl Ether	ND		1250	1130	90	1250	1080	86	5	66-124/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD73841-4MS	1N5040.D	25	10/03/23	PS	n/a	n/a	V1N135
JD73841-4MSD	1N5042.D	25	10/03/23	PS	n/a	n/a	V1N135
JD73841-4 ^a	1N5038.D	25	10/02/23	PS	n/a	n/a	V1N135

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-4, JD73737-6, JD73737-9, JD73737-11, JD73737-15, JD73737-18

CAS No.	Compound	JD73841-4 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		5000	103	5000	5250	105	2	65-135/14
75-09-2	Methylene chloride	ND		1250	85	1250	1020	82	4	66-125/14
100-42-5	Styrene	ND		1250	103	1250	1270	102	2	71-133/12
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	94	1250	1180	94	0	68-127/14
127-18-4	Tetrachloroethene	21.5	J	1250	86	1250	1110	87	1	58-132/13
108-88-3	Toluene	ND		1250	88	1250	1130	90	3	46-139/12
87-61-6	1,2,3-Trichlorobenzene	ND		1250	95	1250	1140	91	4	57-136/17
120-82-1	1,2,4-Trichlorobenzene	ND		1250	94	1250	1190	95	2	61-137/16
71-55-6	1,1,1-Trichloroethane	ND		1250	95	1250	1150	92	3	67-132/13
79-00-5	1,1,2-Trichloroethane	ND		1250	95	1250	1160	93	3	75-120/12
79-01-6	Trichloroethene	67500	E	1250	-1160*	1250	51700	-1264*	b2	56-136/12
75-69-4	Trichlorofluoromethane	ND		1250	68	1250	802	64	6	61-145/16
75-01-4	Vinyl chloride	76.7		1250	59	1250	786	57	3	41-156/16
	m,p-Xylene	ND		2500	98	2500	2440	98	0	32-151/12
95-47-6	o-Xylene	ND		1250	97	1250	1220	98	1	50-139/12
1330-20-7	Xylene (total)	ND		3750	98	3750	3660	98	0	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JD73841-4	Limits
1868-53-7	Dibromofluoromethane	98%	93%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	112%	115%	111%	80-120%
2037-26-5	Toluene-D8	95%	97%	99%	80-120%
460-00-4	4-Bromofluorobenzene	105%	111%	111%	82-114%

(a) Preliminary Data.

(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD73823-19MS	1T4595.D	10	10/04/23	LD	n/a	n/a	V1T138
JD73823-19MSD	1T4597.D	10	10/04/23	LD	n/a	n/a	V1T138
JD73823-19	1T4587.D	10	10/04/23	LD	n/a	n/a	V1T138

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-2, JD73737-13

CAS No.	Compound	JD73823-19 ug/l	Spike Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	60.0	J	2000	1530	74	2000	1520	73	1	22-134/19
71-43-2	Benzene	ND		500	436	87	500	434	87	0	49-137/12
74-97-5	Bromochloromethane	ND		500	431	86	500	441	88	2	78-122/12
75-27-4	Bromodichloromethane	ND		500	432	86	500	434	87	0	76-121/12
75-25-2	Bromoform	ND		500	449	90	500	457	91	2	70-133/13
74-83-9	Bromomethane	ND		500	366	73	500	473	95	26	27-164/38
78-93-3	2-Butanone (MEK)	ND		2000	1830	92	2000	1800	90	2	52-137/17
75-15-0	Carbon disulfide	ND		500	468	94	500	481	96	3	54-136/16
56-23-5	Carbon tetrachloride	ND		500	421	84	500	428	86	2	70-132/13
108-90-7	Chlorobenzene	ND		500	428	86	500	441	88	3	68-123/12
75-00-3	Chloroethane	ND		500	530	106	500	553	111	4	48-152/17
67-66-3	Chloroform	ND		500	399	80	500	414	83	4	68-120/13
74-87-3	Chloromethane	ND		500	451	90	500	474	95	5	35-156/18
110-82-7	Cyclohexane	ND		500	407	81	500	419	84	3	53-146/14
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	437	87	500	456	91	4	63-134/16
124-48-1	Dibromochloromethane	ND		500	434	87	500	445	89	3	75-122/12
106-93-4	1,2-Dibromoethane	ND		500	442	88	500	453	91	2	63-134/12
95-50-1	1,2-Dichlorobenzene	ND		500	446	89	500	450	90	1	74-119/12
541-73-1	1,3-Dichlorobenzene	ND		500	440	88	500	450	90	2	75-117/12
106-46-7	1,4-Dichlorobenzene	ND		500	433	87	500	437	87	1	72-117/12
75-71-8	Dichlorodifluoromethane	ND		500	449	90	500	459	92	2	34-163/16
75-34-3	1,1-Dichloroethane	ND		500	434	87	500	434	87	0	68-129/13
107-06-2	1,2-Dichloroethane	ND		500	399	80	500	401	80	1	66-120/13
75-35-4	1,1-Dichloroethene	ND		500	477	95	500	496	99	4	59-133/15
156-59-2	cis-1,2-Dichloroethene	328		500	683	71	500	699	74	2	52-140/12
156-60-5	trans-1,2-Dichloroethene	7.8	J	500	444	87	500	456	90	3	70-125/13
78-87-5	1,2-Dichloropropane	ND		500	457	91	500	455	91	0	73-124/12
10061-01-5	cis-1,3-Dichloropropene	ND		500	454	91	500	450	90	1	75-125/13
10061-02-6	trans-1,3-Dichloropropene	ND		500	453	91	500	463	93	2	75-122/12
100-41-4	Ethylbenzene	ND		500	406	81	500	411	82	1	37-144/12
76-13-1	Freon 113	ND		500	492	98	500	511	102	4	61-142/14
591-78-6	2-Hexanone	ND		2000	1930	97	2000	1950	98	1	56-132/16
98-82-8	Isopropylbenzene	ND		500	425	85	500	436	87	3	71-126/13
79-20-9	Methyl Acetate	ND		500	470	94	500	476	95	1	51-139/18
108-87-2	Methylcyclohexane	ND		500	449	90	500	447	89	0	59-137/16
1634-04-4	Methyl Tert Butyl Ether	ND		500	427	85	500	436	87	2	66-124/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD73737
Account: EAENYES EA Engineering
Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD73823-19MS	1T4595.D	10	10/04/23	LD	n/a	n/a	V1T138
JD73823-19MSD	1T4597.D	10	10/04/23	LD	n/a	n/a	V1T138
JD73823-19	1T4587.D	10	10/04/23	LD	n/a	n/a	V1T138

The QC reported here applies to the following samples: Method: SW846 8260D

JD73737-2, JD73737-13

CAS No.	Compound	JD73823-19 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	2000	2010	101	2000	2000	100	0	65-135/14
75-09-2	Methylene chloride	ND	500	444	89	500	448	90	1	66-125/14
100-42-5	Styrene	ND	500	452	90	500	452	90	0	71-133/12
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	478	96	500	484	97	1	68-127/14
127-18-4	Tetrachloroethene	ND	500	427	85	500	442	88	3	58-132/13
108-88-3	Toluene	ND	500	429	86	500	428	86	0	46-139/12
87-61-6	1,2,3-Trichlorobenzene	ND	500	432	86	500	431	86	0	57-136/17
120-82-1	1,2,4-Trichlorobenzene	ND	500	412	82	500	428	86	4	61-137/16
71-55-6	1,1,1-Trichloroethane	ND	500	414	83	500	419	84	1	67-132/13
79-00-5	1,1,2-Trichloroethane	ND	500	439	88	500	454	91	3	75-120/12
79-01-6	Trichloroethene	50.4	500	464	83	500	472	84	2	56-136/12
75-69-4	Trichlorofluoromethane	ND	500	489	98	500	499	100	2	61-145/16
75-01-4	Vinyl chloride	57.4	500	502	89	500	516	92	3	41-156/16
	m,p-Xylene	ND	1000	868	87	1000	877	88	1	32-151/12
95-47-6	o-Xylene	ND	500	427	85	500	438	88	3	50-139/12
1330-20-7	Xylene (total)	ND	1500	1290	86	1500	1320	88	2	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JD73823-19	Limits
1868-53-7	Dibromofluoromethane	95%	96%	105%	80-120%
17060-07-0	1,2-Dichloroethane-D4	94%	93%	98%	80-120%
2037-26-5	Toluene-D8	100%	100%	101%	80-120%
460-00-4	4-Bromofluorobenzene	94%	94%	96%	82-114%

* = Outside of Control Limits.

Duplicate Summary

Page 1 of 2

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD74316-1DUP	4D131962.D	1	10/10/23	NW	n/a	n/a	V4D5843
JD74316-1	4D131955.D	1	10/10/23	NW	n/a	n/a	V4D5843

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-16

CAS No.	Compound	JD74316-1 ug/l	DUP Q ug/l	Q	RPD	Limits
67-64-1	Acetone	ND	ND		nc	23
71-43-2	Benzene	ND	ND		nc	14
74-97-5	Bromochloromethane	ND	ND		nc	20
75-27-4	Bromodichloromethane	ND	ND		nc	10
75-25-2	Bromoform	ND	ND		nc	10
74-83-9	Bromomethane	ND	ND		nc	10
78-93-3	2-Butanone (MEK)	ND	ND		nc	10
75-15-0	Carbon disulfide	ND	ND		nc	10
56-23-5	Carbon tetrachloride	ND	ND		nc	10
108-90-7	Chlorobenzene	ND	ND		nc	10
75-00-3	Chloroethane	ND	ND		nc	10
67-66-3	Chloroform	2.1	2.1		0	10
74-87-3	Chloromethane	ND	ND		nc	10
110-82-7	Cyclohexane	ND	ND		nc	14
96-12-8	1,2-Dibromo-3-chloropropane	ND	ND		nc	20
124-48-1	Dibromochloromethane	ND	ND		nc	10
106-93-4	1,2-Dibromoethane	ND	ND		nc	20
95-50-1	1,2-Dichlorobenzene	ND	ND		nc	10
541-73-1	1,3-Dichlorobenzene	ND	ND		nc	10
106-46-7	1,4-Dichlorobenzene	ND	ND		nc	10
75-71-8	Dichlorodifluoromethane	ND	ND		nc	20
75-34-3	1,1-Dichloroethane	ND	ND		nc	10
107-06-2	1,2-Dichloroethane	ND	ND		nc	10
75-35-4	1,1-Dichloroethene	ND	ND		nc	15
156-59-2	cis-1,2-Dichloroethene	ND	ND		nc	10
156-60-5	trans-1,2-Dichloroethene	ND	ND		nc	10
78-87-5	1,2-Dichloropropane	ND	ND		nc	20
10061-01-5	cis-1,3-Dichloropropene	ND	ND		nc	20
10061-02-6	trans-1,3-Dichloropropene	ND	ND		nc	20
100-41-4	Ethylbenzene	ND	ND		nc	20
76-13-1	Freon 113	ND	ND		nc	10
591-78-6	2-Hexanone	ND	ND		nc	10
98-82-8	Isopropylbenzene	ND	ND		nc	15
79-20-9	Methyl Acetate	ND	ND		nc	20
108-87-2	Methylcyclohexane	ND	ND		nc	20
1634-04-4	Methyl Tert Butyl Ether	ND	ND		nc	12

* = Outside of Control Limits.

Duplicate Summary

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD74316-1DUP	4D131962.D	1	10/10/23	NW	n/a	n/a	V4D5843
JD74316-1	4D131955.D	1	10/10/23	NW	n/a	n/a	V4D5843

The QC reported here applies to the following samples:

Method: SW846 8260D

JD73737-16

CAS No.	Compound	JD74316-1 ug/l	DUP Q	ug/l	Q	RPD	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	10
75-09-2	Methylene chloride	ND		ND		nc	10
100-42-5	Styrene	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	10
127-18-4	Tetrachloroethene	3.4		3.4		0	10
108-88-3	Toluene	ND		ND		nc	16
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	10
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	10
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	10
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	10
79-01-6	Trichloroethene	0.84	J	0.85	J	1	14
75-69-4	Trichlorofluoromethane	ND		ND		nc	10
75-01-4	Vinyl chloride	ND		ND		nc	10
	m,p-Xylene	ND		ND		nc	18
95-47-6	o-Xylene	ND		ND		nc	18
1330-20-7	Xylene (total)	ND		ND		nc	22

CAS No.	Surrogate Recoveries	DUP	JD74316-1	Limits
1868-53-7	Dibromofluoromethane	114%	112%	80-120%
17060-07-0	1,2-Dichloroethane-D4	105%	105%	80-120%
2037-26-5	Toluene-D8	102%	101%	80-120%
460-00-4	4-Bromofluorobenzene	100%	100%	82-114%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

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Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample: V1N132-BFB

Injection Date: 09/25/23

Lab File ID: 1N4889.D

Injection Time: 21:12

Instrument ID: GCMS1N

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	32824	19.5	Pass
75	30.0 - 60.0% of mass 95	89043	52.8	Pass
95	Base peak, 100% relative abundance	168669	100.0	Pass
96	5.0 - 9.0% of mass 95	11267	6.68	Pass
173	Less than 2.0% of mass 174	1617	0.96 (0.90) ^a	Pass
174	50.0 - 120.0% of mass 95	179520	106.4	Pass
175	5.0 - 9.0% of mass 174	13775	8.17 (7.67) ^a	Pass
176	95.0 - 101.0% of mass 174	177429	105.2 (98.8) ^a	Pass
177	5.0 - 9.0% of mass 176	11201	6.64 (6.31) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1N132-IC132	1N4891.D	09/25/23	22:01	00:49	Initial cal 0.2
V1N132-IC132	1N4893.D	09/25/23	22:29	01:17	Initial cal 0.5
V1N132-IC132	1N4895.D	09/25/23	22:57	01:45	Initial cal 1
V1N132-IC132	1N4897.D	09/25/23	23:24	02:12	Initial cal 2
V1N132-IC132	1N4899.D	09/25/23	23:52	02:40	Initial cal 4
V1N132-IC132	1N4901.D	09/26/23	00:20	03:08	Initial cal 8
V1N132-IC132	1N4903.D	09/26/23	00:48	03:36	Initial cal 20
V1N132-ICC132	1N4905.D	09/26/23	01:15	04:03	Initial cal 50
V1N132-IC132	1N4907.D	09/26/23	01:43	04:31	Initial cal 100
V1N132-IC132	1N4909.D	09/26/23	02:11	04:59	Initial cal 200
V1N132-ICV132	1N4915.D	09/26/23	03:34	06:22	Initial cal verification 50
V1N132-ICV132	1N4917.D	09/26/23	04:01	06:49	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample: V1T117-BFB

Injection Date: 09/11/23

Lab File ID: 1T3497.D

Injection Time: 15:43

Instrument ID: GCMS1T

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	47803	19.6	Pass
75	30.0 - 60.0% of mass 95	126619	51.9	Pass
95	Base peak, 100% relative abundance	243925	100.0	Pass
96	5.0 - 9.0% of mass 95	15973	6.55	Pass
173	Less than 2.0% of mass 174	1869	0.77 (0.95) ^a	Pass
174	50.0 - 120.0% of mass 95	197696	81.0	Pass
175	5.0 - 9.0% of mass 174	14199	5.82 (7.18) ^a	Pass
176	95.0 - 101.0% of mass 174	190656	78.2 (96.4) ^a	Pass
177	5.0 - 9.0% of mass 176	12369	5.07 (6.49) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1T117-IC117	1T3499A.D	09/11/23	16:51	01:08	Initial cal 0.2
V1T117-IC117	1T3501.D	09/11/23	17:19	01:36	Initial cal 0.5
V1T117-IC117	1T3503.D	09/11/23	17:47	02:04	Initial cal 1
V1T117-IC117	1T3505.D	09/11/23	18:14	02:31	Initial cal 2
V1T117-IC117	1T3507.D	09/11/23	18:42	02:59	Initial cal 4
V1T117-IC117	1T3509.D	09/11/23	19:10	03:27	Initial cal 8
V1T117-IC117	1T3511.D	09/11/23	19:37	03:54	Initial cal 20
V1T117-ICC117	1T3513.D	09/11/23	20:05	04:22	Initial cal 50
V1T117-IC117	1T3515.D	09/11/23	20:33	04:50	Initial cal 100
V1T117-IC117	1T3517.D	09/11/23	21:00	05:17	Initial cal 200
V1T117-ICV117	1T3523.D	09/11/23	22:23	06:40	Initial cal verification 50
V1T117-ICV117	1T3525.D	09/11/23	22:51	07:08	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample: V1T138-BFB

Injection Date: 10/04/23

Lab File ID: 1T4570.D

Injection Time: 10:27

Instrument ID: GCMS1T

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	40299	19.7	Pass
75	30.0 - 60.0% of mass 95	106989	52.4	Pass
95	Base peak, 100% relative abundance	204096	100.0	Pass
96	5.0 - 9.0% of mass 95	13133	6.43	Pass
173	Less than 2.0% of mass 174	1729	0.85 (1.02) ^a	Pass
174	50.0 - 120.0% of mass 95	169216	82.9	Pass
175	5.0 - 9.0% of mass 174	12762	6.25 (7.54) ^a	Pass
176	95.0 - 101.0% of mass 174	163376	80.0 (96.5) ^a	Pass
177	5.0 - 9.0% of mass 176	11707	5.74 (7.17) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1T138-CC117	1T4570.D	10/04/23	10:27	00:00	Continuing cal 20
V1T138-CC117	1T4571.D	10/04/23	10:59	00:32	Continuing cal 1
V1T138-CC117	1T4573.D	10/04/23	11:26	00:59	Continuing cal 2
V1T138-BS	1T4575.D	10/04/23	11:54	01:27	Blank Spike
V1T138-MB	1T4579.D	10/04/23	12:50	02:23	Method Blank
ZZZZZZ	1T4581.D	10/04/23	13:18	02:51	(unrelated sample)
ZZZZZZ	1T4583.D	10/04/23	13:46	03:19	(unrelated sample)
ZZZZZZ	1T4585.D	10/04/23	14:14	03:47	(unrelated sample)
JD73823-19	1T4587.D	10/04/23	14:42	04:15	(used for QC only; not part of job JD73737)
JD73823-19MS	1T4595.D	10/04/23	16:34	06:07	Matrix Spike
JD73823-19MSD	1T4597.D	10/04/23	17:03	06:36	Matrix Spike Duplicate
ZZZZZZ	1T4601.D	10/04/23	17:59	07:32	(unrelated sample)
ZZZZZZ	1T4603.D	10/04/23	18:27	08:00	(unrelated sample)
ZZZZZZ	1T4605.D	10/04/23	18:55	08:28	(unrelated sample)
ZZZZZZ	1T4607.D	10/04/23	19:23	08:56	(unrelated sample)
JD73737-2	1T4609.D	10/04/23	19:51	09:24	622017-MW-04
JD73737-13	1T4611.D	10/04/23	20:19	09:52	622017-SWTR-1T
ZZZZZZ	1T4615.D	10/04/23	21:14	10:47	(unrelated sample)
ZZZZZZ	1T4618.D	10/04/23	22:08	11:41	(unrelated sample)

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample: V2N132-BFB

Injection Date: 09/25/23

Lab File ID: 2N4890.D

Injection Time: 21:26

Instrument ID: GCMS2N

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	33491	18.9	Pass
75	30.0 - 60.0% of mass 95	94171	53.1	Pass
95	Base peak, 100% relative abundance	177323	100.0	Pass
96	5.0 - 9.0% of mass 95	12035	6.79	Pass
173	Less than 2.0% of mass 174	2041	1.15 (1.10) ^a	Pass
174	50.0 - 120.0% of mass 95	185771	104.8	Pass
175	5.0 - 9.0% of mass 174	13862	7.82 (7.46) ^a	Pass
176	95.0 - 101.0% of mass 174	178112	100.4 (95.9) ^a	Pass
177	5.0 - 9.0% of mass 176	11578	6.53 (6.50) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2N132-IC132	2N4892.D	09/25/23	22:15	00:49	Initial cal 0.2
V2N132-IC132	2N4894.D	09/25/23	22:43	01:17	Initial cal 0.5
V2N132-IC132	2N4896.D	09/25/23	23:11	01:45	Initial cal 1
V2N132-IC132	2N4898.D	09/25/23	23:38	02:12	Initial cal 2
V2N132-IC132	2N4900.D	09/26/23	00:06	02:40	Initial cal 4
V2N132-IC132	2N4902.D	09/26/23	00:34	03:08	Initial cal 8
V2N132-IC132	2N4904.D	09/26/23	01:02	03:36	Initial cal 20
V2N132-ICC132	2N4906.D	09/26/23	01:29	04:03	Initial cal 50
V2N132-IC132	2N4908.D	09/26/23	01:57	04:31	Initial cal 100
V2N132-IC132	2N4910.D	09/26/23	02:25	04:59	Initial cal 200
V2N132-ICV132	2N4916.D	09/26/23	03:48	06:22	Initial cal verification 50
V2N132-ICV132	2N4918.D	09/26/23	04:15	06:49	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample: V4D5842-BFB

Injection Date: 10/06/23

Lab File ID: 4D131928.D

Injection Time: 15:00

Instrument ID: GCMS4D

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	30029	19.7	Pass
75	30.0 - 60.0% of mass 95	70213	46.1	Pass
95	Base peak, 100% relative abundance	152368	100.0	Pass
96	5.0 - 9.0% of mass 95	10494	6.89	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	123133	80.8	Pass
175	5.0 - 9.0% of mass 174	9754	6.40 (7.92) ^a	Pass
176	95.0 - 101.0% of mass 174	119621	78.5 (97.1) ^a	Pass
177	5.0 - 9.0% of mass 176	8056	5.29 (6.73) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D5842-IC5842	4D131929.D	10/06/23	15:37	00:37	Initial cal 0.2
V4D5842-IC5842	4D131930.D	10/06/23	16:06	01:06	Initial cal 0.5
V4D5842-IC5842	4D131931.D	10/06/23	16:35	01:35	Initial cal 1
V4D5842-IC5842	4D131932.D	10/06/23	17:04	02:04	Initial cal 2
V4D5842-IC5842	4D131933.D	10/06/23	17:33	02:33	Initial cal 4
V4D5842-IC5842	4D131934.D	10/06/23	18:02	03:02	Initial cal 8
V4D5842-IC5842	4D131935.D	10/06/23	18:31	03:31	Initial cal 20
V4D5842-ICC5842	4D131936.D	10/06/23	19:00	04:00	Initial cal 50
V4D5842-IC5842	4D131937.D	10/06/23	19:29	04:29	Initial cal 100
V4D5842-IC5842	4D131938.D	10/06/23	19:58	04:58	Initial cal 200
V4D5842-ICV5842	4D131941.D	10/06/23	21:25	06:25	Initial cal verification 50
V4D5842-ICV5842	4D131942.D	10/06/23	21:54	06:54	Initial cal verification 50

Surrogate Recovery Summary

Page 1 of 2

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Method: SW846 8260D

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD73737-1	2N5073.D	105	98	100	113
JD73737-2	1T4609.D	104	99	102	95
JD73737-3	2N5071.D	102	96	99	117* a
JD73737-4	1N5070.D	104	100	102	110
JD73737-5	2N5069.D	102	96	97	115* a
JD73737-6	1N5068.D	102	92	100	111
JD73737-7	2N5067.D	99	96	97	114
JD73737-8	2N5037.D	102	98	101	110
JD73737-9	1N5066.D	100	97	101	111
JD73737-10	2N5065.D	101	95	99	113
JD73737-11	1N5064.D	103	99	99	109
JD73737-12	2N5063.D	101	94	101	108
JD73737-13	1T4611.D	105	99	101	94
JD73737-14	2N5061.D	99	96	99	115* a
JD73737-15	1N5060.D	103	101	98	109
JD73737-16	4D131966.D	113	104	102	100
JD73737-17	2N5047.D	98	93	100	114
JD73737-18	1N5048.D	99	97	100	110
JD73737-19	2N5049.D	102	94	98	110
JD73737-8MS	2N5039.D	94	96	96	104
JD73737-8MSD	2N5041.D	93	93	95	113
JD73823-19MS	1T4595.D	95	94	100	94
JD73823-19MSD	1T4597.D	96	93	100	94
JD73841-4MS	1N5040.D	98	112	95	105
JD73841-4MSD	1N5042.D	93	115	97	111
JD74316-1DUP	4D131962.D	114	105	102	100
JD74316-2MS	4D131960.D	113	99	100	101
V1N135-BS	1N5032.D	91	92	94	108
V1N135-MB	1N5036.D	101	96	98	107
V1T138-BS	1T4575.D	97	93	101	96
V1T138-MB	1T4579.D	103	96	103	95
V2N135-BS	2N5033.D	91	93	93	109
V2N135-MB	2N5035.D	98	93	99	112
V4D5843-BS	4D131948.D	104	98	99	99
V4D5843-MB	4D131950.D	106	102	102	101

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane

80-120%

Surrogate Recovery Summary

Job Number: JD73737
Account: EAENYES EA Engineering
Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Method: SW846 8260D	Matrix: AQ
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Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

(a) Outside of in house control limits, but within reasonable method recovery limits.

5.7.1
5

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 1

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49459A-MB1	4M119212.D	1	10/02/23	KM	10/01/23	OP49459A	E4M5581

The QC reported here applies to the following samples:

Method: SW846 8270E BY SIM

JD73737-1, JD73737-2, JD73737-3, JD73737-4, JD73737-6, JD73737-8, JD73737-9, JD73737-11, JD73737-12, JD73737-13, JD73737-14, JD73737-15

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Limits
4165-60-0	Nitrobenzene-d5	67% 23-127%
321-60-8	2-Fluorobiphenyl	63% 23-114%
1718-51-0	Terphenyl-d14	64% 10-121%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49459A-BS12	4M119213.D	1	10/02/23	KM	10/01/23	OP49459A	E4M5581
OP49459A-BSD12	4M119214.D	1	10/02/23	KM	10/01/23	OP49459A	E4M5581

The QC reported here applies to the following samples:

Method: SW846 8270E BY SIM

JD73737-1, JD73737-2, JD73737-3, JD73737-4, JD73737-6, JD73737-8, JD73737-9, JD73737-11, JD73737-12, JD73737-13, JD73737-14, JD73737-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	1	0.477	48	0.447	45	6	10-70/67

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	85%	64%	23-127%
321-60-8	2-Fluorobiphenyl	77%	58%	23-114%
1718-51-0	Terphenyl-d14	71%	56%	10-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD73737
Account: EAENYES EA Engineering
Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP49459A-MSA	4M119257.D	1	10/03/23	RS	10/01/23	OP49459A	E4M5582
OP49459A-MSDA	4M119258.D	1	10/03/23	RS	10/01/23	OP49459A	E4M5582
JD73737-8	4M119236.D	1	10/02/23	KM	10/01/23	OP49459A	E4M5581

The QC reported here applies to the following samples: Method: SW846 8270E BY SIM

JD73737-1, JD73737-2, JD73737-3, JD73737-4, JD73737-6, JD73737-8, JD73737-9, JD73737-11, JD73737-12, JD73737-13, JD73737-14, JD73737-15

CAS No.	Compound	JD73737-8 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND	1	0.348	35	1	0.433	43	22	10-94/81

CAS No.	Surrogate Recoveries	MS	MSD	JD73737-8	Limits
4165-60-0	Nitrobenzene-d5	64%	72%	87%	23-127%
321-60-8	2-Fluorobiphenyl	62%	70%	79%	23-114%
1718-51-0	Terphenyl-d14	42%	50%	51%	10-121%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Page 1 of 2

Job Number: JD73737

Account: EAENYES EA Engineering

Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Sample: E4M5573-DFTPP

Injection Date: 09/26/23

Lab File ID: 4M118991.D

Injection Time: 03:51

Instrument ID: GCMS4M

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	87536	37.1	Pass
68	Less than 2.0% of mass 69	1675	0.71 (1.91) ^a	Pass
69	Mass 69 relative abundance	87922	37.2	Pass
70	Less than 2.0% of mass 69	509	0.22 (0.58) ^a	Pass
127	40.0 - 60.0% of mass 198	112395	47.6	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	236157	100.0	Pass
199	5.0 - 9.0% of mass 198	16046	6.79	Pass
275	10.0 - 30.0% of mass 198	63712	27.0	Pass
365	1.0 - 100.0% of mass 198	7283	3.08	Pass
441	Present, but less than mass 443	25944	11.0 (84.7) ^b	Pass
442	40.0 - 100.0% of mass 198	158669	67.2	Pass
443	17.0 - 23.0% of mass 442	30633	13.0 (19.3) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M5573-ICC5573	4M118992.D	09/26/23	04:07	00:16	Initial cal 1
E4M5573-IC5573	4M118993.D	09/26/23	04:28	00:37	Initial cal 0.01
E4M5573-IC5573	4M118994.D	09/26/23	04:49	00:58	Initial cal 0.02
E4M5573-IC5573	4M118995.D	09/26/23	05:10	01:19	Initial cal 0.05
E4M5573-IC5573	4M118996.D	09/26/23	05:32	01:41	Initial cal 0.1
E4M5573-IC5573	4M118997.D	09/26/23	05:53	02:02	Initial cal 0.2
E4M5573-IC5573	4M118998.D	09/26/23	06:15	02:24	Initial cal 0.5
E4M5573-IC5573	4M118999.D	09/26/23	06:36	02:45	Initial cal 2.5
E4M5573-IC5573	4M119000.D	09/26/23	06:57	03:06	Initial cal 5
E4M5573-ICV5573	4M119001.D	09/26/23	07:18	03:27	Initial cal verification 1
E4M5573-ICV5573	4M119003.D	09/26/23	10:09	06:18	Initial cal verification 5
E4M5573-ICV5573	4M119004.D	09/26/23	10:30	06:39	Initial cal verification 1
E4M5574-CC5573	4M119005.D	09/26/23	10:53	07:02	Continuing cal 1
OP49227A-BS12	4M119007.D	09/26/23	11:39	07:48	Blank Spike
OP49227A-BSD12	4M119008.D	09/26/23	12:01	08:10	Blank Spike Duplicate
OP49276A-MB1	4M119009.D	09/26/23	12:23	08:32	Method Blank
OP49276A-BS12	4M119010.D	09/26/23	12:45	08:54	Blank Spike
OP49276A-BSD12	4M119011.D	09/26/23	13:08	09:17	Blank Spike Duplicate
OP49278A-MB1	4M119012.D	09/26/23	13:30	09:39	Method Blank

Instrument Performance Check (DFTPP)

Page 2 of 2

Job Number: JD73737**Account:** EAENYES EA Engineering**Project:** NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY**Sample:** E4M5573-DFTPP**Injection Date:** 09/26/23**Lab File ID:** 4M118991.D**Injection Time:** 03:51**Instrument ID:** GCMS4M

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP49278A-BS12	4M119013.D	09/26/23	13:52	10:01	Blank Spike
ZZZZZZ	4M119017.D	09/26/23	14:36	10:45	(unrelated sample)
OP49276A-MSA	4M119018.D	09/26/23	14:58	11:07	Matrix Spike
OP49276A-MSDA	4M119019.D	09/26/23	15:21	11:30	Matrix Spike Duplicate
JD73170-3	4M119020.D	09/26/23	15:43	11:52	(used for QC only; not part of job JD73737)
ZZZZZZ	4M119021.D	09/26/23	16:05	12:14	(unrelated sample)
ZZZZZZ	4M119022.D	09/26/23	16:27	12:36	(unrelated sample)
ZZZZZZ	4M119023.D	09/26/23	16:49	12:58	(unrelated sample)
ZZZZZZ	4M119024.D	09/26/23	17:11	13:20	(unrelated sample)
ZZZZZZ	4M119025.D	09/26/23	17:33	13:42	(unrelated sample)
ZZZZZZ	4M119026.D	09/26/23	17:55	14:04	(unrelated sample)
ZZZZZZ	4M119027.D	09/26/23	18:17	14:26	(unrelated sample)
ZZZZZZ	4M119028.D	09/26/23	18:39	14:48	(unrelated sample)
ZZZZZZ	4M119029.D	09/26/23	19:01	15:10	(unrelated sample)
OP49278A-MSA	4M119030.D	09/26/23	19:23	15:32	Matrix Spike
OP49278A-MSDA	4M119031.D	09/26/23	19:45	15:54	Matrix Spike Duplicate
JD73199-13	4M119032.D	09/26/23	20:07	16:16	(used for QC only; not part of job JD73737)
ZZZZZZ	4M119033.D	09/26/23	20:29	16:38	(unrelated sample)
ZZZZZZ	4M119034.D	09/26/23	20:52	17:01	(unrelated sample)
ZZZZZZ	4M119035.D	09/26/23	21:14	17:23	(unrelated sample)
ZZZZZZ	4M119036.D	09/26/23	21:36	17:45	(unrelated sample)
E4M5575-CC5573	4M119038.D	09/26/23	22:20	18:29	Continuing cal 1
ZZZZZZ	4M119039.D	09/26/23	22:42	18:51	(unrelated sample)

6.4.1

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Surrogate Recovery Summary

Job Number: JD73737
Account: EAENYES EA Engineering
Project: NYSDEC SMP-D Site- Rose Valley Landfill, Rose Valley Road, Russia, NY

Method: SW846 8270E BY SIM	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD73737-1	4M119231.D	69	62	44
JD73737-2	4M119232.D	76	71	51
JD73737-3	4M119233.D	84	76	54
JD73737-4	4M119234.D	84	79	33
JD73737-6	4M119235.D	84	80	34
JD73737-8	4M119236.D	87	79	51
JD73737-9	4M119237.D	70	67	48
JD73737-11	4M119238.D	47	42	21
JD73737-12	4M119239.D	76	67	31
JD73737-13	4M119254.D	67	65	29
JD73737-14	4M119255.D	80	78	47
JD73737-15	4M119256A.D	65	61	35
OP49459A-BS12	4M119213.D	85	77	71
OP49459A-BSD124	4M119214.D	64	58	56
OP49459A-MB1	4M119212.D	67	63	64
OP49459A-MSA	4M119257.D	64	62	42
OP49459A-MSDA	4M119258.D	72	70	50

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	23-127%
S2 = 2-Fluorobiphenyl	23-114%
S3 = Terphenyl-d14	10-121%

Attachment C

VOC and PFAS Trend Graphs

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Table 1-1
Detected VOC COC Concentrations
MW-03
Rose Valley Landfill

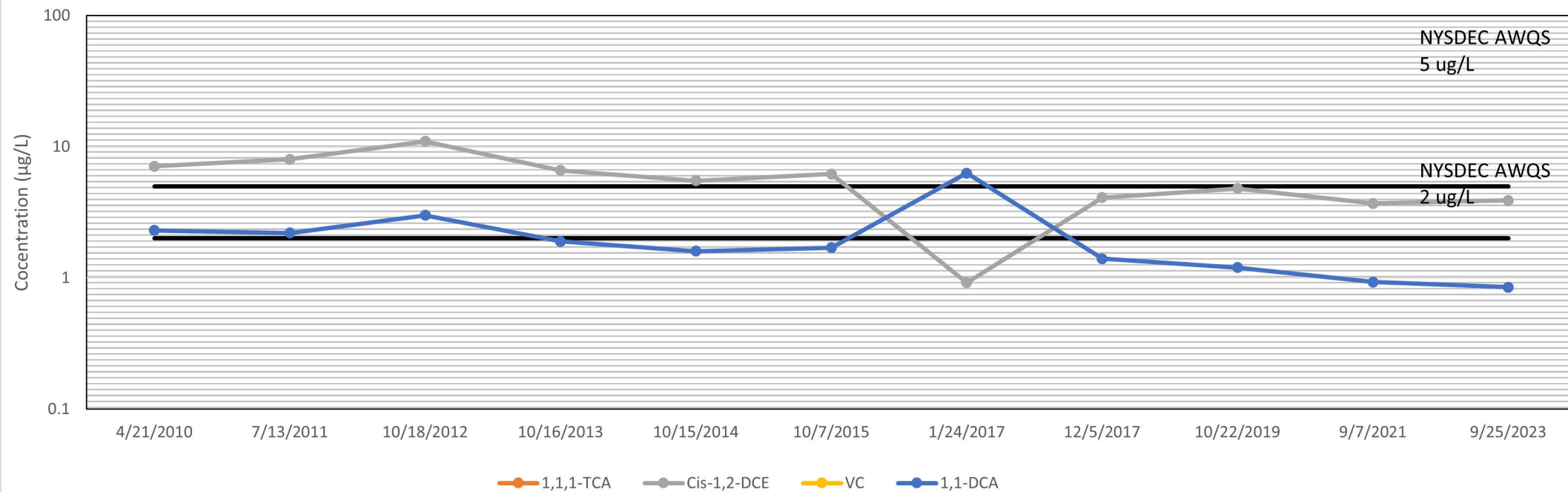


Table 1-2
Detected VOC COC Concentrations
MW-04
Rose Valley Landfill

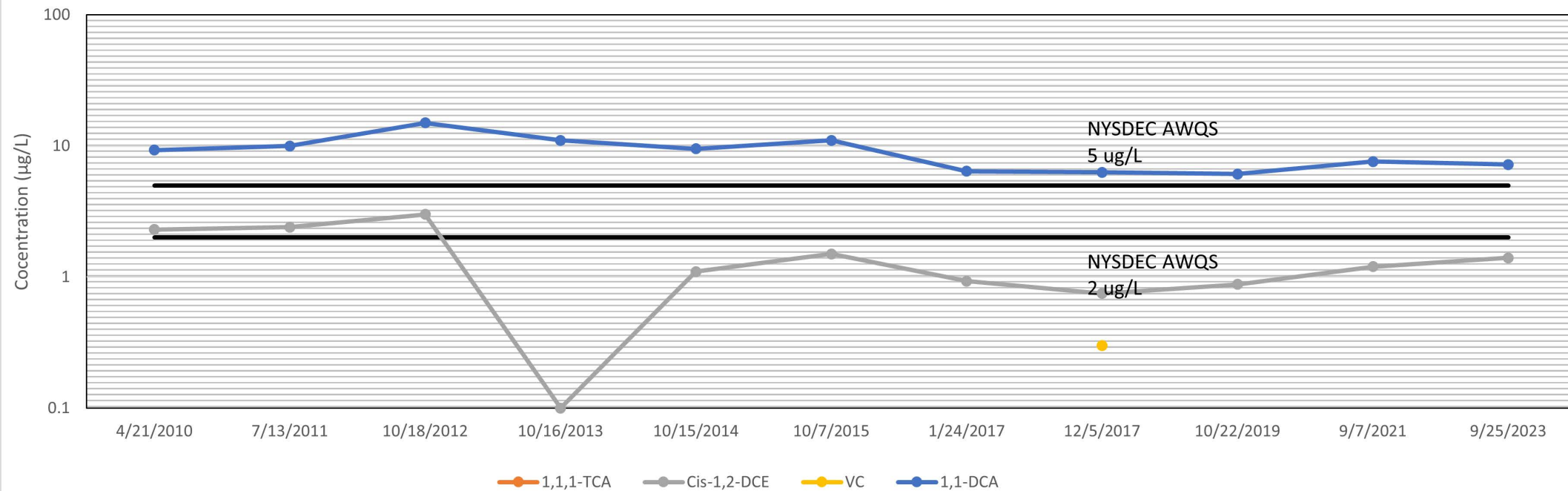


Table 1-3
Detected VOC COC Concentrations
MW-16
Rose Valley Landfill

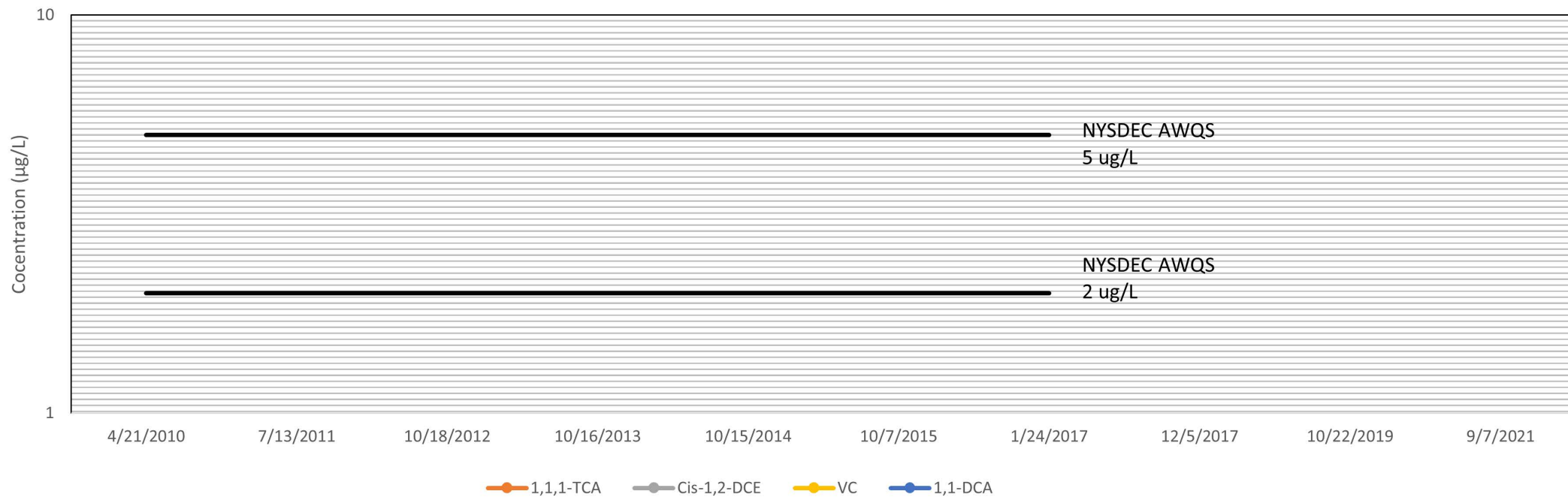


Table 1-4
Detected VOC COC Concentrations
SW-01D
Rose Valley Landfill

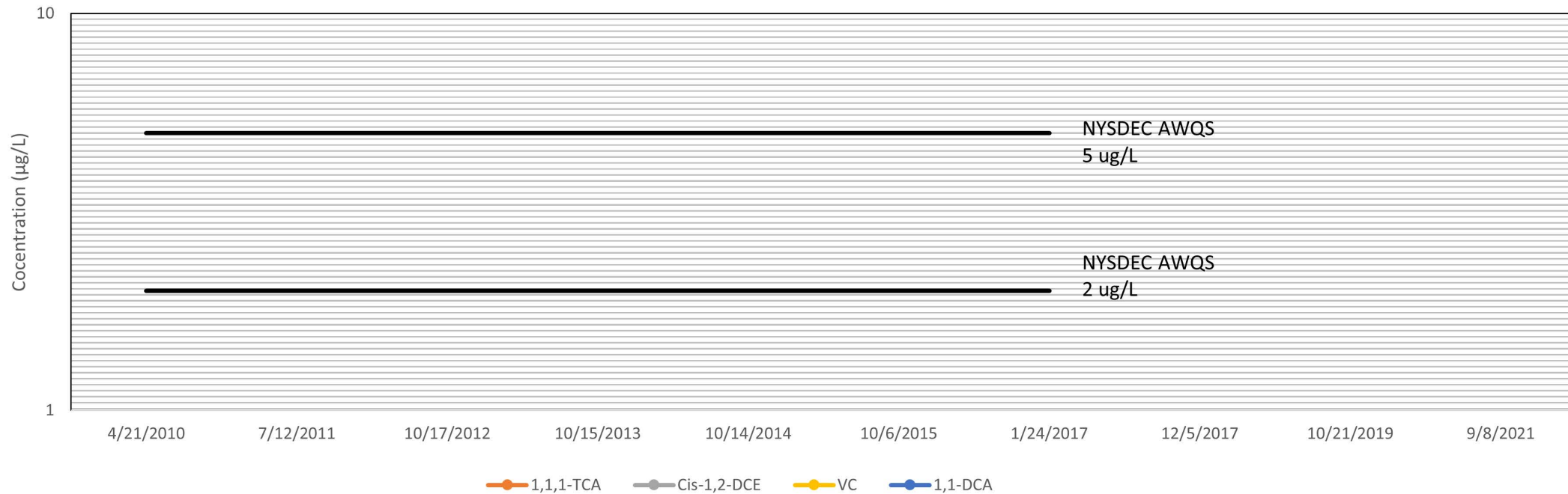


Table 1-5
Detected VOC COC Concentrations
SW-01S
Rose Valley Landfill

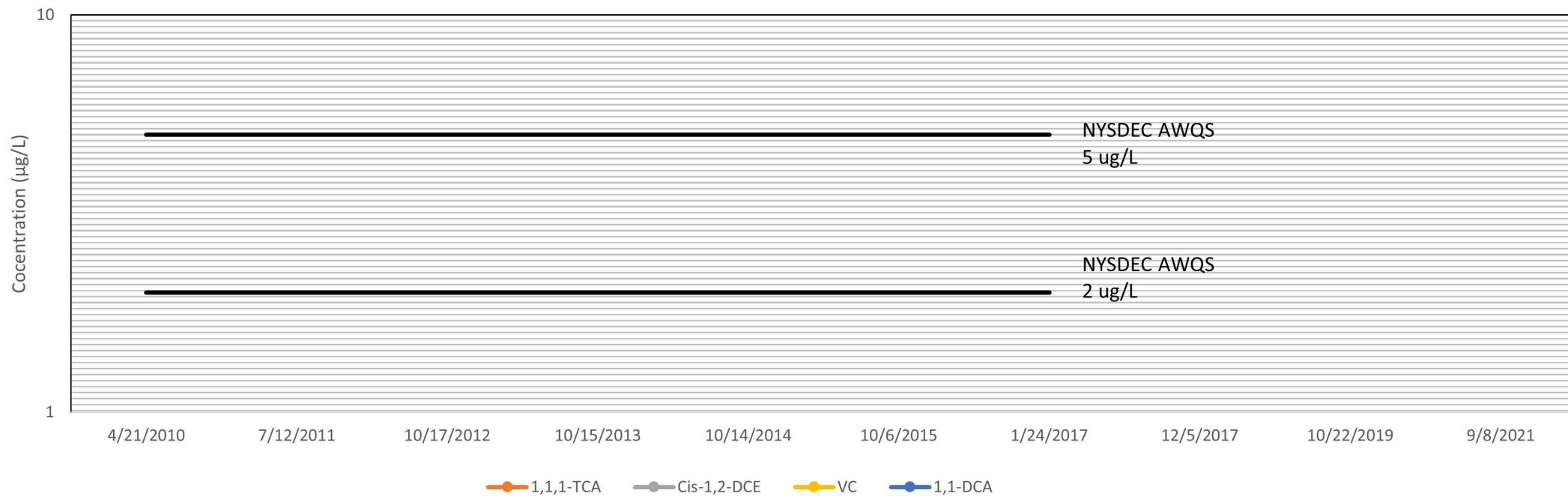


Table 1-6
Detected VOC COC Concentrations
SW-02D
Rose Valley Landfill

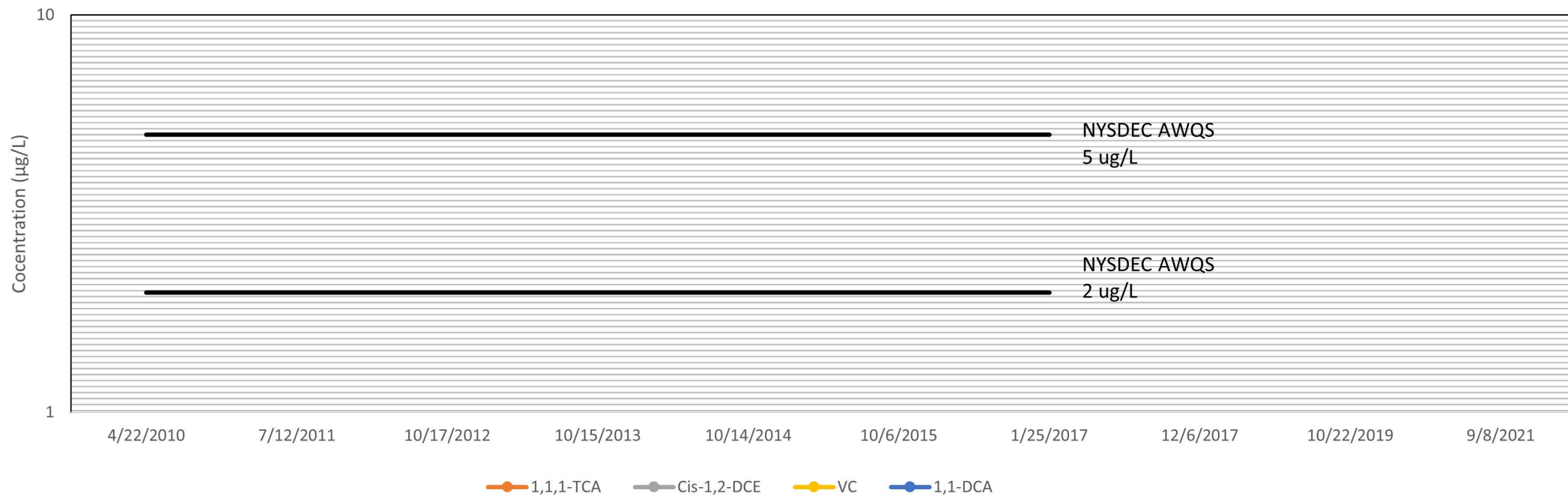


Table 1-7
Detected VOC COC Concentrations
SW-02S
Rose Valley Landfill

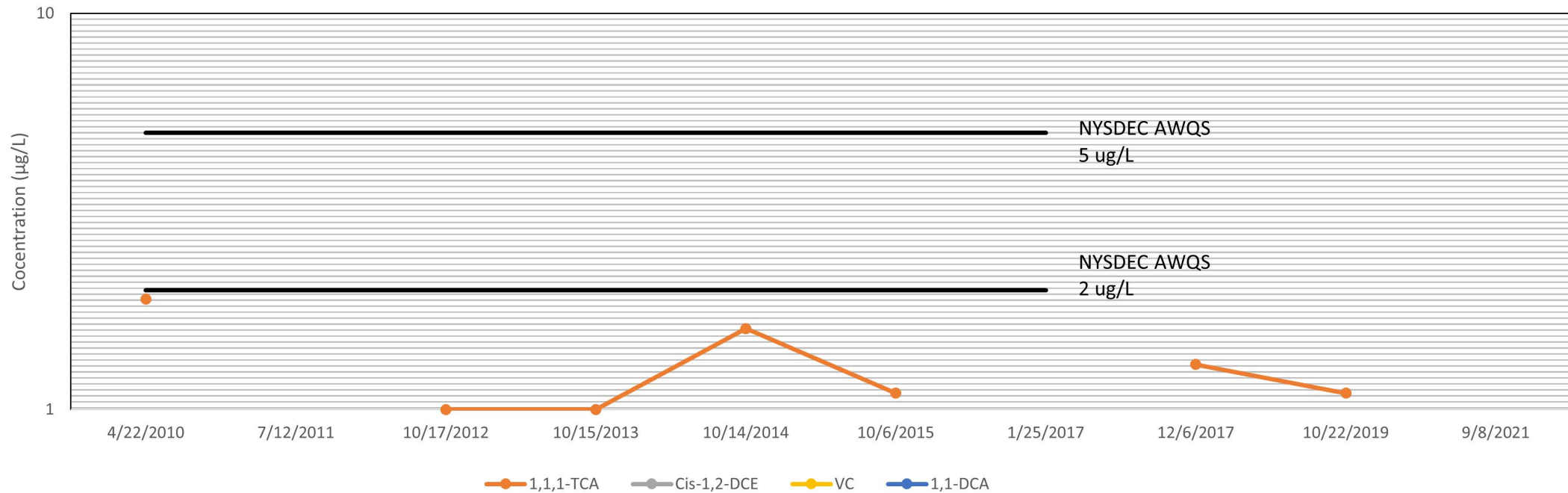


Table 1-8
Detected VOC COC Concentrations
SW-03S
Rose Valley Landfill

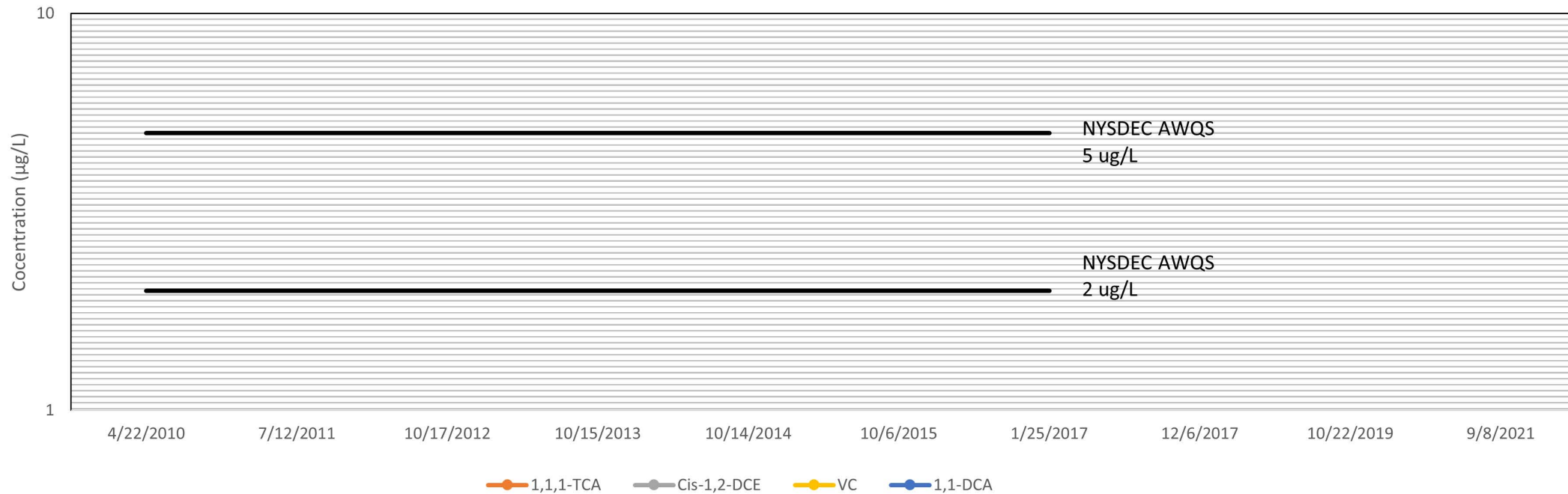


Table 1-9
Detected VOC COC Concentrations
SW-04D
Rose Valley Landfill

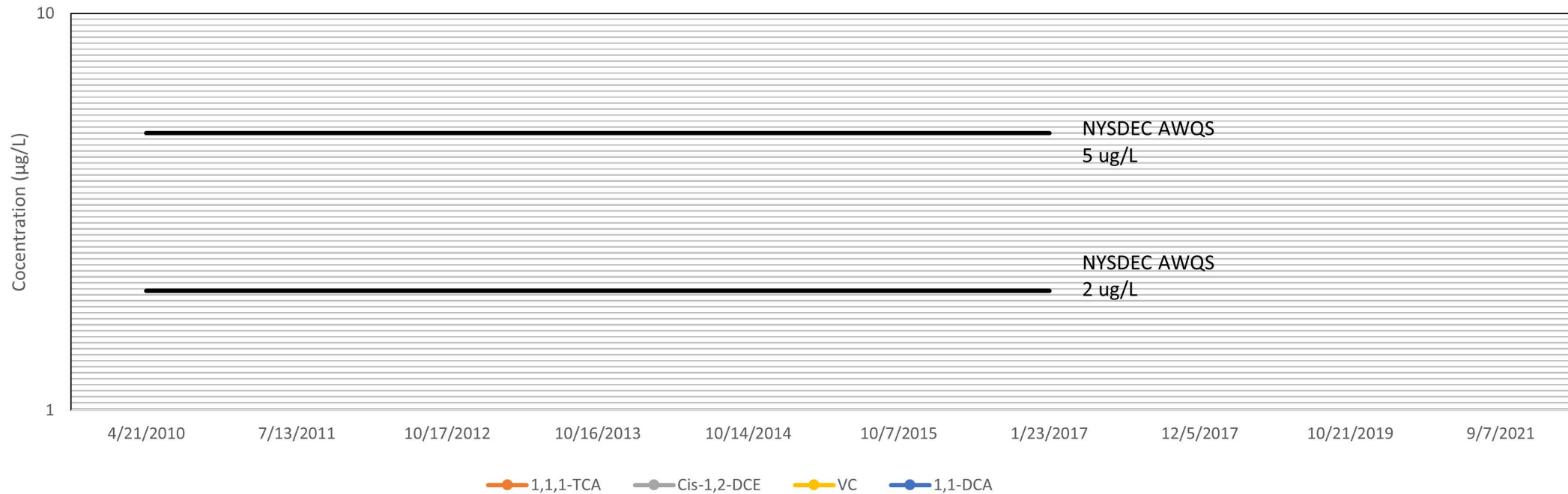


Table 1-10
Detected VOC COC Concentrations
SW-04S
Rose Valley Landfill

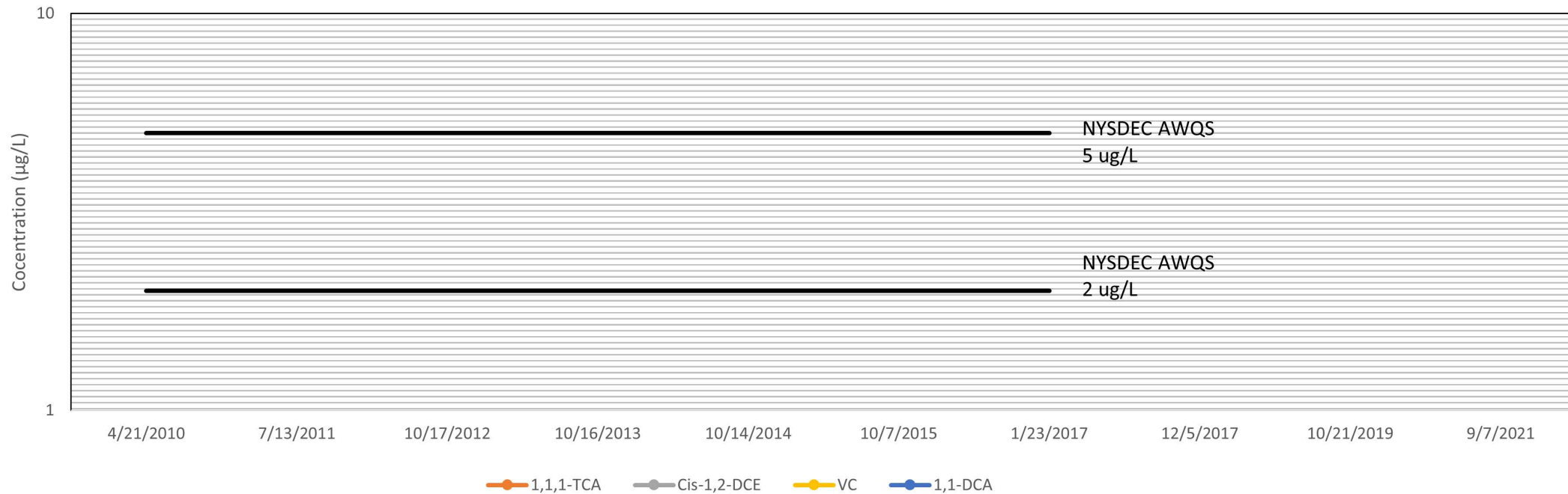


Table 1-1
Detected PFAS COC Concentrations
MW-03
Rose Valley Landfill

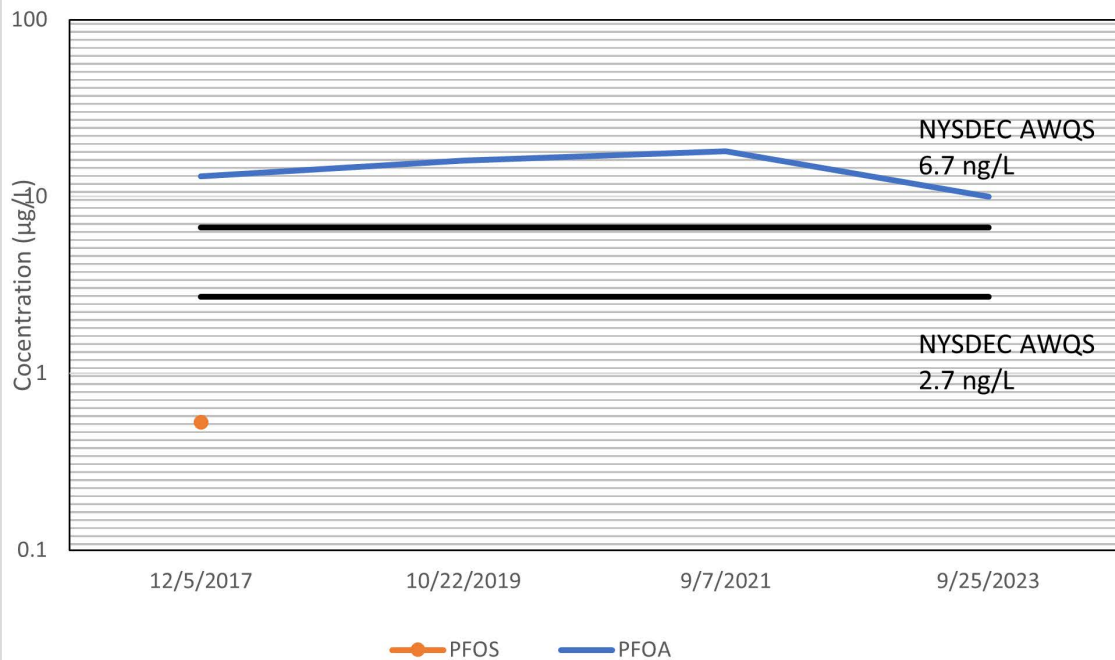


Table 1-2
Detected PFAS COC Concentrations
MW-04
Rose Valley Landfill

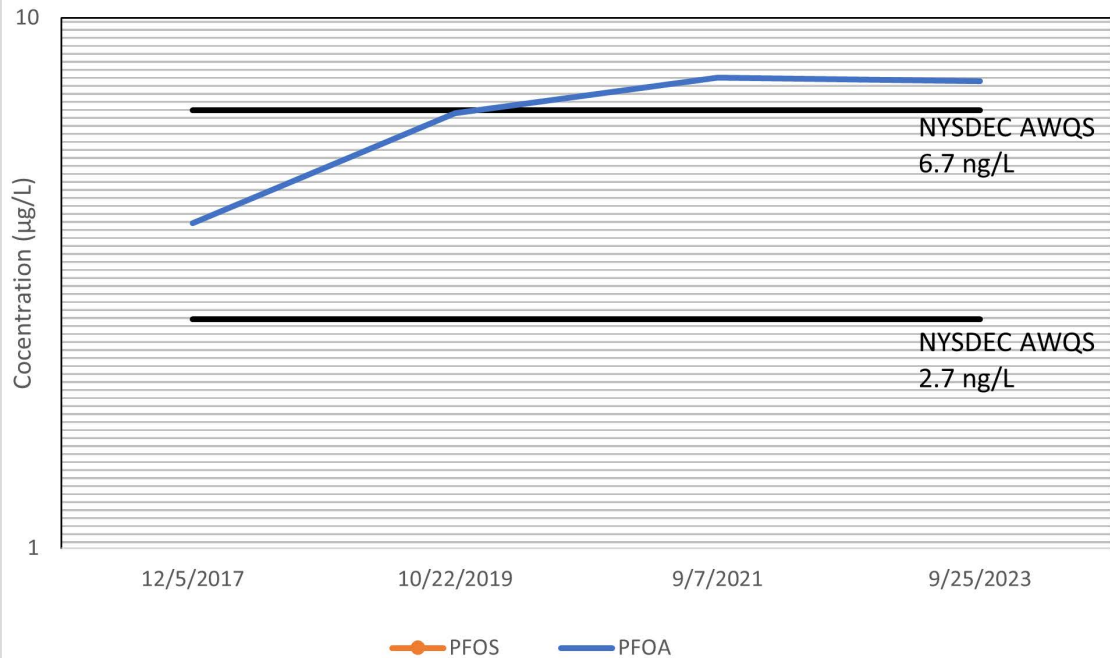


Table 1-3
Detected PFAS COC Concentrations
MW-16
Rose Valley Landfill

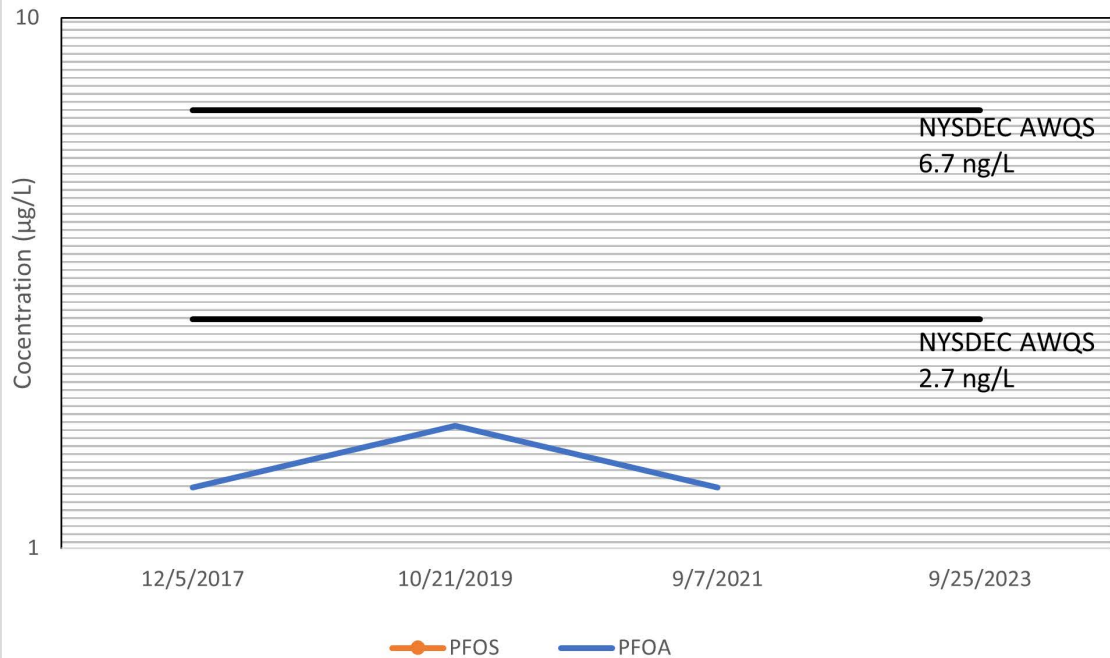


Table 1-4
Detected PFAS COC Concentrations
SW-01S
Rose Valley Landfill

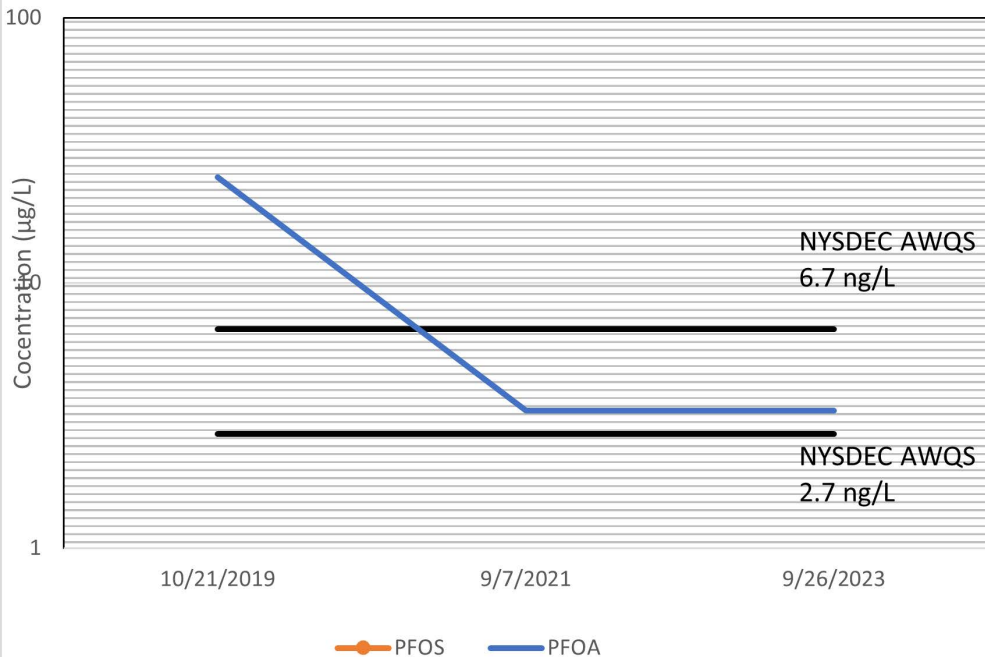


Table 1-5
Detected PFAS COC Concentrations
SW-02S
Rose Valley Landfill

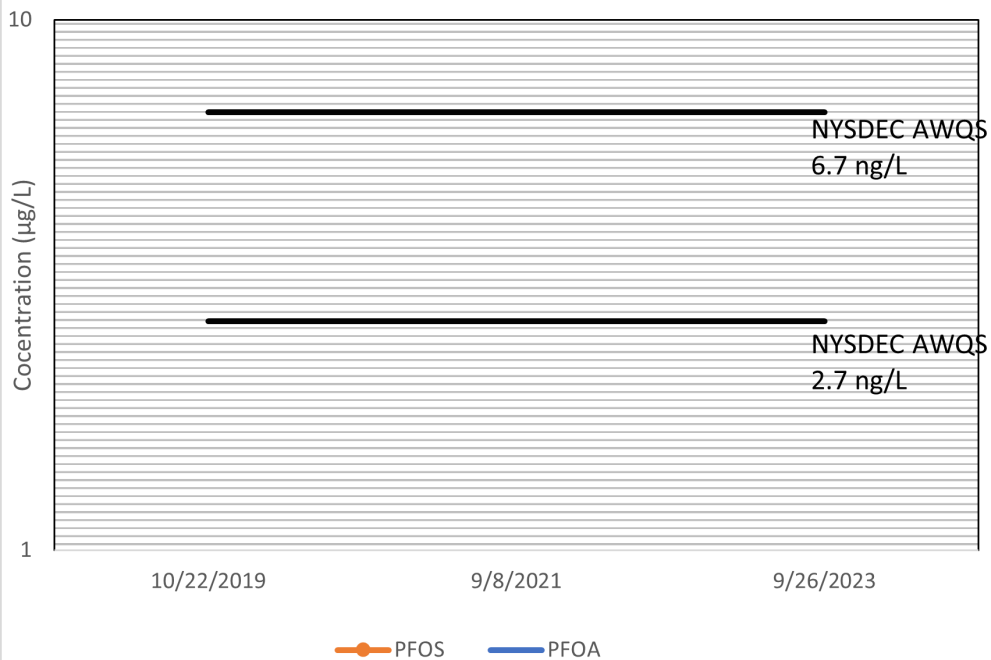


Table 1-6
Detected PFAS COC Concentrations
SW-03S
Rose Valley Landfill

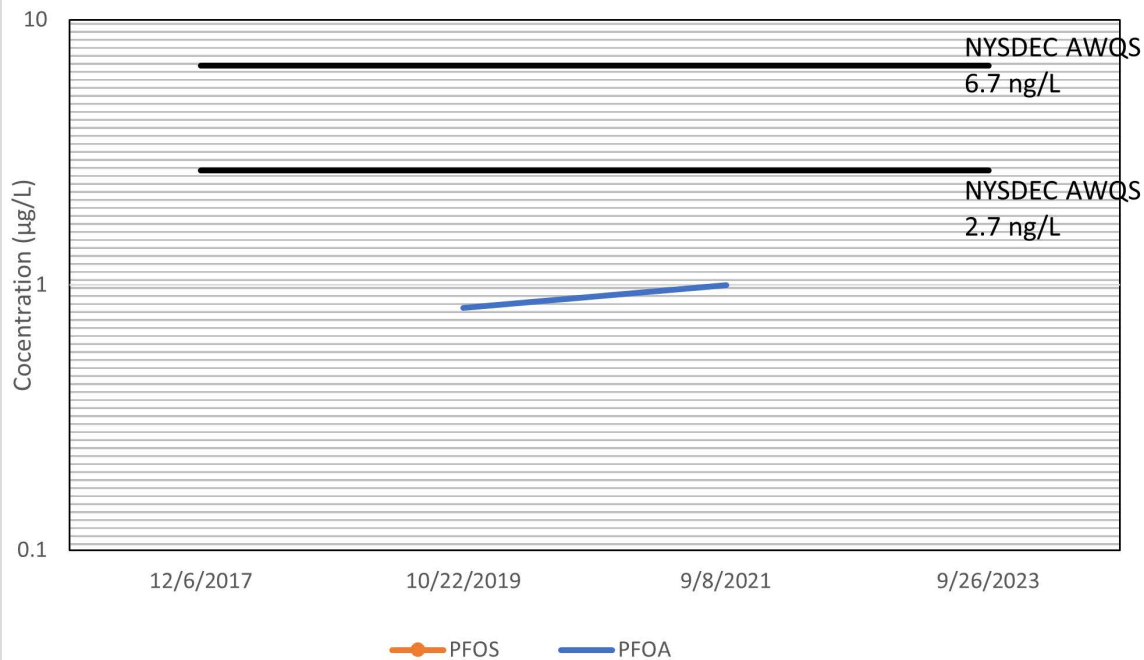


Table 1-7
Detected PFAS COC Concentrations
SW-04S
Rose Valley Landfill

