ROSE VALLEY LANDFILL

SITE MONITORING REPORT

for
2021

SITE # 622017

TOWN OF RUSSIA, HERKIMER COUNTY, NEW YORK

PREPARED FOR:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DEPARTMENT OF ENVIRONMENTAL REMEDIATION

WORK ASSIGNMENT D009803-31

PREPARED BY:

AECOM USA, INC.

1 JOHN JAMES AUDUBON PARKWAY, SUITE 210

AMHERST, NEW YORK 14228

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1.0 INTRODUCTION

1.1 General

This Site Monitoring Report for the calendar year 2021 has been prepared by AECOM USA, Inc. (AECOM) under New York State Department of Environmental Conservation (NYSDEC) Work Assignment No. D009803-31 for the Rose Valley Landfill site (Figure 1). The purpose of this report is to provide a record of the long-term maintenance of the cap, wells, and stormwater management features associated with remediation of the Rose Valley Landfill and to monitor the effectiveness of natural attenuation. This report is the tenth report as called for by Section 6.3 of the Conceptual Operation, Monitoring and Maintenance Plan (COMMP) (URS, November 2006). At the request of the NYSDEC, the COMMP was modified and re-titled as the Site Management Plan (SMP) (URS, September 2010). On November 24, 2021, AECOM submitted a new Draft SMP in accordance with DER-10 to NYSDEC for their review.

In July 2021, AECOM submitted a Periodic Review Report (PRP) which summarized Site Management (SM) activities completed during the period of April 21, 2010 to October 22, 2019. Since then, AECOM performed site visits on June 26, 2020, May 4, 2021, and September 7 and 8, 2021. The September 7 and 8, 2021 site visit included groundwater monitoring in accordance with the new SMP. This report covers activities from June 26, 2020 through September 2021, and was prepared in accordance with the November 2021 Draft SMP.

The purpose of the site management as presented in the Record of Decision (ROD) is to provide guidance for the operation and maintenance of the site relative to:

- Maintaining the capped area,
- Long-term monitoring of the natural attenuation of the groundwater plume by and within the downslope wetlands, and
- Documenting the effectiveness of natural attenuation.

1.2 Project Background

The NYSDEC proposed a remedy in the ROD dated March 30, 2001. The proposed remedy involved:

- On-site disposal of contaminated surface soils from the older septic disposal pit into the landfill;
- Installation of a new cap on the landfill to reduce infiltration through the wastes;

- Installation of a new residential water supply well in a deeper, clean aquifer for the impacted residence; and

Treatment of the leachate and contaminated groundwater plume by monitored natural attenuation, including long-term monitoring of the effectiveness of natural attenuation.

2.0 SITE DESCRIPTION

The Rose Valley Landfill was a privately owned, unlined dump that was open from 1963 to 1985. The site is located in Russia Township in Herkimer County as part of a 91-acre parcel (since subdivided into two parcels in 1986). The site is bounded to the east by Military Road, to the west by Bromley Road, and to the southwest by Rose Valley Road (Figure 2). A NYSDEC Class C stream, locally known as Finch Brook, separates the site from Military Road. Finch Brook is a tributary of Hurricane Brook (also a NYSDEC Class C stream).

The landfill is located on the side of a hill that has approximately 120 feet of relief. A steep, 60-foot-high sand embankment extends above the landfill to the west. The site is characterized by high relief, with sharp drops in elevation from southwest to northeast and a moderate south to southwest slope. The gradient across the western portion of the property is less severe, sloping in the opposite direction.

The area surrounding the site is sparsely populated, with few permanent residents. At the time that the ROD was issued, a private well immediately adjacent to the landfill entrance on Rose Valley Road (and downgradient of the landfill) was found to be contaminated with site-related contaminants. A new replacement drinking water well into the deeper aquifer has since been installed at the residence and is being monitored by the Herkimer County Department of Health.

The remedial design of the landfill closure was prepared, and the construction of the landfill cap was completed in 2007. A 6-foot high chain-link fence was constructed to limit access to the landfill cap area.

3.0 MONITORING ACTIVITIES

The site monitoring activities described in this report were performed in September 2021, in accordance with the November 2021 Draft SMP. Site monitoring consists of:

- groundwater hydraulic monitoring at 14 well locations; and
- collection of groundwater samples from ten wells.

Per the 2020 Periodic Review Report, collection of surface water samples was discontinued at four locations [SWTR-1T, SWTR-1E, the North Detention Pond (NDP), and the South Detention Pond (SDP)].

Seven of the groundwater wells shown on Figure 2 are "Sentry Wells" (i.e., SW-01S, SW-01D, SW-02S, SW-02D SW-03S, SW-04S and SW-04D) and seven are monitoring wells (MW-02, MW-03, MW-04, MW-14, MW-15, MW-16, and MW-17). All seven sentry wells and three monitoring wells (i.e., MW-03, MW-04 and MW-16) are sampled for groundwater quality. Sentry wells are constructed the same as monitoring wells but are called sentry wells because they are located between the landfill and nearby residential drinking water wells or a surface water body. The monitoring wells are located within the wetland, east of the landfill.

A copy of the September 2021 field notes is provided in Appendix A.

3.1 Groundwater Hydraulic Monitoring

On September 7 and 8, 2021, groundwater level measurements were obtained only from the wells sampled (all seven sentry wells, and monitoring wells MW-03, MW-04, and MW-16). The water level measurements are provided in Table 1. One of the deep wells east of the landfill is an artesian well (i.e., SW-04D). The water column of SW-04D was measured using a pressure gauge. On September 7, 2021, the pressure gauge reading was 7.0 pounds per square inch (psi), which calculates to a column height of 15.8 feet above ground. Deep monitoring well MW-02 is damaged - the locking cover and J-plug are missing and there is a blockage approximately 2 feet below the top of casing. It is suspected that objects (e.g., beer cans or bottles) were dropped into the well casing. MW-14, MW-15 and MW-17 were not measured.

A potentiometric surface map, using a 10-foot contour interval, based on the September 7 and 8, 2021 water level measurements from the shallow wells is provided in Figure 3. A potentiometric surface map based on the water level measurements from the deep wells, using a 10-foot contour interval, is provided in Figure 4.

The shallow groundwater flow is generally to the east-northeast towards Military Road and is consistent with historical shallow groundwater patterns. The deep groundwater flow is in the same general direction east of MW-02.

3.2 Groundwater Sampling

On September 7 and 8, 2021, AECOM collected groundwater samples from the seven sentry wells and three monitoring wells plus quality control (QC) samples using low-flow sampling procedures.

Prior to sample collection, standing water was purged from each well with a either a GeoPump2 peristaltic pump or Grundfos Redi-Flow 2 submersible pump using dedicated/disposable high-density polyethylene (HDPE) tubing. Wells were purged at a rate of 1.1 liters per minute or less with the purge rates adjusted to minimize draw down. During purging, water quality parameters (i.e., pH, specific conductivity, temperature, dissolved oxygen, turbidity) were measured using a Horiba U-52-2 Multi-parameter instrument with a flow-through cell. The water quality parameters were documented on purge logs. Samples were collected after the water quality parameters stabilized. Well purge logs are provided in Appendix B. Purge water was disposed of on the ground upgradient of the well locations, as per the direction of the NYSDEC.

The samples were transported under chain of custody (COC) to the NYSDEC's callout laboratory, Eurofins TestAmerica, Buffalo (Eurofins TestAmerica), a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) accredited laboratory. The samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs) following United States Environmental Protection Agency (USEPA) SW846 Method 8260C. All shallow well samples were also analyzed for the emerging contaminants per- and polyfluoroalkyl substances (PFASs) by USEPA Method 537 (modified), and 1,4-dioxane by USEPA Method 8270D select ion monitoring (SIM) at the TestAmerica Sacramento, CA and Buffalo, NY laboratories, respectively.

3.3 Analytical Results

NYSDEC Analytical Services Protocol (ASP) Category B data deliverables were received and validated by AECOM. The data was reviewed in accordance with the requirements outlined in *Guidance for Data Deliverables and the Development of Data Usability Summary Reports (DUSR), Appendix 2B, DER-10/Technical Guidance for Site Investigation and Remediation*

(NYSDEC, May 2010). Data summary tables and Form I's are provided in the DUSR and include the reporting limit for each non-detected compound. A copy of the DUSR may be found in Appendix C.

A summary of the detected compounds in the groundwater samples is provided in Table 2. Results exceeding NYSDEC, Division of Water, Technical and Operational Guidance Series (1.1.1), *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations* (TOGS 1.1.1), Class GA groundwater standards or guidance values are indicated with a circle. PFAS and 1,4-dioxane results are compared to *Recommended Screening Level - New York State Drinking Water Quality Council (DWQC)*, January 2019. Results exceeding DWQC recommended screening levels are indicated with a rectangle. The locations of detected compounds that have exceeded their respective criteria are shown on Figure 5.

- Only one VOC, 1,1-dichloroethane detected at 7.6 micrograms per liter (µg/L) in MW-04, was detected above TOGS 1.1.1 Class GA limits in the September 2021 groundwater samples. No VOCs exceeded TOGS No. 1.1.1 standards or guidance values in the samples from sentry wells (i.e., SW-01D, SW-01S, SW-02D, SW-02S, SW-03S, SW-04D and SW-04S) or monitoring wells MW-03 and MW-16.

Results for the emerging contaminant parameters (i.e., PFASs and 1,4-dioxane) for the 2021 monitoring event are as follows:

- Perfluorooctanoic acid (PFOA) was detected in three of the four shallow sentry wells and all three monitoring wells sampled for PFAS as follows: 18 nanograms per liter (ng/L) (MW-03); 7.7 ng/L (MW-04); 1.3 ng/L (MW-16); 3.5 ng/L (SW-01S), 1.0 ng/L (SW-03S) and 1.6 ng/L (SW-04S). PFOA in MW-03 is above the DWQC recommended screening level of 10 ng/L.
- Perfluorooctanesulfonic acid (PFOS) was not detected any groundwater samples. Several other PFAS compounds were detected, but all individual and total concentrations were below DWQC recommended screening levels of 100 ng/L and 500 ng/L, respectively.
- 1,4-Dioxane was detected in two of four sentry wells and all three monitoring wells sampled, with concentrations of 0.23 µg/L (MW-03), 4.6 µg/L (MW-04), 0.42 µg/L (MW-16), 5.4 µg/L (SW-01S) and 0.51 µg/L (SW-04S). MW-04 and SW-01S exceeded the DWQC recommended screening levels of 1 µg/L. 1,4-dioxane (5.4 µg/L)

was detected in the field duplicate of SW-01S, but not detected above the method detection limit (0.1 µg/L) in the parent sample SW-01S. It was not detected in this well during the 2019 sampling event.

A summary of historical detected results in groundwater is provided in Table 3 and shown on Figure 5. TCL VOC results date back to 2010; emerging contaminants were previously analyzed in 2017 and 2019. TCL VOC analytical results from the September 2021 sampling event are consistent with the 2010 to 2019 sampling events and emerging contaminant results are consistent with the 2017 and 2019 sampling events, with the exception of recent detection of 1,4-dioxane in the SW-01S field duplicate.

A Mann-Kendall statistical analysis, provided on Table 4, was performed to identify any trends in groundwater analytical results. The concentrations of 1,1-dichloroethane and 1,2-dichloroethene (cis) are exhibiting downward trends in MW-03 and MW-04. The remaining detected VOCs exhibit no trends. There are an insufficient number of samples for trend analysis of the emerging contaminants.

4.0 SITE INSPECTIONS AND MAINTENANCE

4.1 Monitoring Well Inspections

Well inspections were performed only at the monitoring and sentry wells sampled during the September 2021 groundwater sampling event.

Monitoring well inspection forms are provided in Appendix D.

4.2 Landfill Inspection

A landfill inspection was performed by AECOM on May 4, 2021 and confirmed the need for landfill maintenance. From September 7 through 9, 2021, AECOM performed landfill maintenance activities. A copy of the landfill inspection form for the May 2021 inspection can be found in Appendix E. Photographs from both the May 2021 site visit and the September 2021 event can be found in Appendix F.

Observations made during these site visits are described below:

- The main access road has experienced erosion/wash outs making navigation difficult. It appears ATV traffic in this area has altered the surface water flow patterns and ultimately caused the erosion and wash outs.
- During the September 2021 site visit, AECOM had to cut a padlock to gain access to the landfill.
- A portion of the landfill access road on top of the landfill has started to erode and requires repair.
- Two landfill methane vents were found to have been damaged by gun shots and need to be repaired to prevent damage to the cap and to prevent water intrusion into the landfill.
- As initially noted in the August 9, 2012 and subsequent site inspections, the diversion channel around the north side of the landfill is head cutting. As noted in the 2012 inspections, there is an approximately 6-foot high vertical discontinuity in the channel bottom at about the mid-point of the landfill. There appeared to be no significant change to the extent of the head cutting since the August 9, 2012 inspection. As noted in the 2015 inspections, it appears that the head cutting has been stopped by the geotextile fabric that

underlies the downstream end of the channel armor. A length of about 10 feet of channel armor has failed. It is unclear if this equilibrium will persist as the geotextile degrades. It is also unclear, even assuming that the head cutting has stopped, if the adjacent sides of the landfill will hold during run-off events. It was observed that the north bank of the channel appears to be eroding. Thus, the erosion is occurring on the side of the channel away from the landfill. If the head cutting continues, there could be significant erosion of, and damage to, the landfill cap.

- As noted in the 2015 inspections, erosion near the eastern gate to the landfill from Military Road is so severe that the road is no longer usable for motor vehicles.
- Dumping has occurred in the ravine along the south side of Military Road north of the landfill. As noted in the 2017 inspection, tires and televisions were among the items present; this material was removed following the 2017 inspection. During the May 2021 inspection, additional dumping was noted in the same location. Additional dumping of two empty drums and other miscellaneous debris has occurred at the front gate area.

4.3 Maintenance Performed

The following subsections describe site maintenance activities.

4.3.1 Monitoring Well Maintenance

WD-40 is typically used to lubricate monitoring well locks. To minimize the potential for introducing PFAS contaminants into the wells, the monitoring well locks were not sprayed with WD-40 during the September 2021 sampling event. No well maintenance was performed.

4.3.2 Routine Maintenance

Brady Fence reported that they began mowing with a brush hog on October 10, 2021, but due a personnel issue, it was not completed. Brady Fence reported that they completed mowing on October 23, 2021.

Trees and vines growing in the drainage channels were removed or cut on September 7, 2021 by AECOM. AECOM also applied herbicide to the remaining weeds in the drainage channels. No other routine maintenance was performed by AECOM in 2021.

4.3.3 Intermittent Maintenance

Beginning on September 8, 2021, Brad Weakley Excavating was making repairs to the site access road and landfill road. These repairs included regrading to control surface water and the placement and compaction of 8 truckloads (approximately 180 tons) of No. 2 crusher run and 2 truckloads (approximately 45 tons) of No. 4 stone. Weigh tickets are provided in Appendix A. Brad Weakly Excavating placed, graded, and compacted one tandem dump truck of No. 2 crusher run to repair an eroded portion of the landfill road. No fabric was placed.

Brady Fence reported that they repaired the two damaged landfill methane vents on September 10, 2021. The repairs included the removal of the damaged PVC pipe and installation of new PVC pipe and screen in kind.

A crash gate was fabricated and installed at the site entrance on September 8 and 9, 2021 by Brady Fence. Brady Fence then installed three new hardened, keyed-alike locks: two for the front entrance (one for the crash gate and one for the main access gate), and one for the landfill gate.

There was no other intermittent maintenance completed in 2021.

5.0 CORRESPONDENCE WITH LOCAL RESIDENTS AND LAW ENFORCEMENT

In response to the frequent trespassing and vandalism, NYSDEC requested that AECOM contact local law enforcement (the New York State Police) and request that they patrol the area around the landfill. AECOM contacted the New York State Police and local resident to make observations of the front site access gate and report any evidence of trespassing or vandalism. Email correspondence between AECOM and the New York State Police.

On occasion, resident contacted AECOM and/or NYSDEC to report that the gate had been opened.

The New York State Police reported that on July 20, 2021 they found that the gate was opened, so they temporarily fastened it. In addition, they completed a stationary post where they were able to communicate with ATV riders and issue tickets to riders that were operating ATVs on roads where ATV use is not permitted.

During the September 2021 site visit, AECOM personnel spoke with several ATV riders and communicated to them that they are not to ride on the landfill, but areas adjacent to the landfill can be used. They risk losing access to the entire site if they continue to ride on the landfill.

6.0 SUMMARY AND RECOMMENDATIONS

A summary of the annual monitoring and recommendations are provided below.

6.1 Trespassing and Vandalism

AECOM will continue to coordinate with local residents and law enforcement to monitor trespassing and vandalism. Intermittent repairs will continue as necessary.

6.2 Groundwater Hydraulic Monitoring

Shallow and deep groundwater generally flows in an east-northeast direction towards Military Road. Four deep wells (i.e., MW-02, MW-14, MW-15 and MW-17) were not measured during the 2021 monitoring event. Groundwater mounding, typically shown at MW-02 was not visible in the 2019 deep groundwater contours because the well was damaged and could not be measured. In the past, when the mounding was apparent, the deep groundwater contours west of MW-02 showed flow to the west/southwest. Damage to MW-02 prevents use of this well for hydraulic monitoring.

6.3 Groundwater Quality Monitoring

In September 2021, one VOC, 1,1-dichloroethane, slightly exceeded TOGS 1.1.1 Class GA standards and guidance value in one location (monitoring well MW-04). There were no VOC exceedances in the sentry wells or the other monitoring wells sampled (i.e., MW-03 and MW-16). The concentrations of VOCs detected in the September 2021 sampling event are consistent when compared with the 2010 to 2019 results. Based on the Mann-Kendall statistical analysis provided in Table 4, with the exception of a downward trend for 1,1-dichloroethane and/or 1,2-dichloroethene (cis) in MW-03 and MW-04, no trends have been identified in the groundwater analytical results.

Emerging contaminant parameters (i.e., PFASs and 1,4-dioxane) were analyzed for in the four shallow sentry wells and all three monitoring wells sampled in the September 2021 sampling event. The concentration of PFOA in monitoring well MW-03, at 18 ng/L, exceeded the DWQC advisory limit of 10 ng/L. 1,4-Dioxane exceeded the DWQC advisory limit of 1 µg/L in monitoring well MW-04 (4.6 µg/L) and sentry well SW-01S (5.4 µg/L).

Biennial (every other year) groundwater monitoring and sampling will continue with the next sampling event scheduled to occur in 2023. Continued monitoring is recommended because emerging contaminants are present, and concentrations of some contaminants of concern have remained consistent since site monitoring commenced in 2010.

6.4 Monitoring Well Maintenance

Monitoring well MW-02 was vandalized in 2015 or 2016 and should be decommissioned or replaced.

6.5 Landfill Maintenance

All landfill cap components appeared to be sound. The landfill was mowed in October 2021. Erosion has been noted on the north side of the site, north of the stone-lined drainage channel. Continued monitoring of this area is recommended to ensure there is no significant erosion of, or damage to, the landfill cap. Vines and trees growing in drainage channels should be monitored and removed or cut back as necessary.

Monitoring and maintenance of erosion will continue during the next monitoring event as necessary. Corrective actions may be necessary to mitigate any erosion that occurs in the future.

Removal of the dumped debris in the ravine is recommended, although access to and removal of the debris may be challenging because of the steep terrain.

TABLES

TABLE 1
GROUNDWATER ELEVATION MEASUREMENTS
ROSE VALLEY LANDFILL

Location ID / Type	Northing	Easting	Meas.point (Riser) Elev.(ft)	Geol. Zone	Date /Time	Depth to Water (ft)	Water Elev. (ft)	Remark
MW-02	1601925.82	356255.39	1305.15	B	7/12/2011 1313	57.55	1247.60	
					10/17/2012 1028	60.59	1244.56	
					10/16/2013 0814	58.89	1246.26	
					10/15/2014 0000	NM	-	Not measured
					10/6/2015 1607	60.34	1244.81	
MW-03	1602437.498	357450.2192	1175.58	A	4/21/2010 0000	3.03	1172.55	
					7/12/2011 1335	3.01	1172.57	
					10/17/2012 1223	2.85	1172.73	
					10/16/2013 1412	2.84	1172.74	
					10/15/2014 1603	2.75	1172.83	
					10/7/2015 1343	2.85	1172.73	
					1/24/2017 0000	2.62	1172.96	
					12/5/2017 1210	2.54	1173.04	
					10/22/2019 1000	2.56	1173.02	
					9/7/2021 1502	2.68	1172.90	
MW-04	1602588.989	357572.8098	1172.46	A	4/21/2010 0000	2.63	1169.83	
					7/12/2011 1345	2.54	1169.92	
					10/17/2012 1234	2.40	1170.06	
					10/16/2013 1318	2.50	1169.96	
					10/15/2014 1510	2.53	1169.93	
					10/7/2015 1245	2.53	1169.93	
					1/24/2017 0000	2.61	1169.85	
					12/5/2017 1124	1.56	1170.90	
					10/22/2019 0900	2.46	1170.00	
					9/7/2021 1330	2.39	1170.07	
MW-14	1602932.523	356221.9497	1317.83	B	7/12/2011 1520	98.55	1219.28	
					10/17/2012 1129	98.42	1219.41	
					10/16/2013 0827	95.34	1222.49	
					10/15/2014 0000	97.25	1220.58	
					10/6/2015 1625	99.05	1218.78	
MW-15	1602594.762	356379.221	1312.36	B	7/12/2011 1507	87.76	1224.60	
					10/17/2012 1123	88.07	1224.29	
					10/16/2013 0822	88.32	1224.04	
					10/15/2014 0000	86.69	1225.67	
					10/6/2015 1619	88.59	1223.77	
MW-16	1602287.308	357950.8887	1152.58	A	4/21/2010 0000	3.00	1149.58	
					7/12/2011 1400	3.56	1149.02	
					10/16/2013 1143	3.01	1149.57	
					10/15/2014 1335	3.04	1149.54	
					10/7/2015 1135	3.02	1149.56	
					1/23/2017 0000	2.30	1150.28	
					12/5/2017 1515	2.86	1149.72	
					10/21/2019 1600	2.85	1149.73	
					9/7/2021 1831	3.20	1149.38	
MW-17	1602592.476	356386.6381	1311.72	B	7/12/2011 1505	86.69	1225.03	
					10/17/2012 1121	87.06	1224.66	
					10/16/2013 0820	87.15	1224.57	
					10/15/2014 0000	85.63	1226.09	
					10/6/2015 1617	87.45	1224.27	
SW-01D	1601823.93	355356.06	1264.70	B	4/21/2010 0000	67.13	1197.57	
					7/12/2011 1437	67.37	1197.33	
					10/17/2012 1048	68.71	1195.99	
					10/15/2013 1500	67.89	1196.81	
					10/14/2014 1356	68.14	1196.56	
					10/6/2015 1422	68.14	1196.56	
					1/24/2017 0000	62.60	1202.10	
					12/5/2017 0944	66.67	1198.03	
					10/21/2019 1100	65.00	1199.70	
					9/8/2021 1105	67.80	1196.90	

TABLE 1
GROUNDWATER ELEVATION MEASUREMENTS
ROSE VALLEY LANDFILL

Location ID / Type	Northing	Easting	Meas.point (Riser) Elev.(ft)	Geol. Zone	Date /Time	Depth to Water (ft)	Water Elev. (ft)	Remark
SW-01S	1601817.02	355346.13	1263.17	A	4/21/2010 0000	19.05	1244.12	
					7/12/2011 1435	18.56	1244.61	
					10/17/2012 1045	20.82	1242.35	
					10/15/2013 1610	19.55	1243.62	
					10/14/2014 1245	19.61	1243.56	
					10/6/2015 1503	20.61	1242.56	
					1/24/2017 0000	20.54	1242.63	
					12/5/2017 0826	19.24	1243.93	
					10/22/2019 1440	19.23	1243.94	
					9/8/2021 0945	20.21	1242.96	
SW-02D	1601370.34	355721.25	1257.00	B	4/21/2010 0000	70.10	1186.90	
					7/12/2011 1450	70.73	1186.27	
					10/17/2012 1106	70.97	1186.03	
					10/15/2013 1357	70.42	1186.58	
					10/14/2014 1149	70.87	1186.13	
					10/6/2015 1316	71.37	1185.63	
					1/25/2017 0000	69.76	1187.24	
					12/6/2017 1036	69.85	1187.15	
					10/22/2019 1600	69.57	1187.43	
					9/8/2021 1408	70.82	1186.18	
SW-02S	1601367.21	355730.86	1257.20	A	4/21/2010 0000	12.36	1244.84	
					7/12/2011 1448	11.30	1245.90	
					10/17/2012 1108	13.95	1243.25	
					10/15/2013 1239	12.40	1244.80	
					10/14/2014 1044	12.55	1244.65	
					10/6/2015 1233	13.77	1243.43	
					1/25/2017 0000	13.61	1243.59	
					12/6/2017 0936	12.00	1245.20	
					10/22/2019 1640	11.89	1245.31	
					9/8/2021 1314	13.41	1243.79	
SW-03S	1601483.4	355518.17	1257.67	A	4/21/2010 0000	12.81	1244.86	
					7/12/2011 1440	11.85	1245.82	
					10/17/2012 1058	14.52	1243.15	
					10/15/2013 1137	19.96	1237.71	
					10/14/2014 0945	13.16	1244.51	
					10/6/2015 1130	14.28	1243.39	
					12/6/2017 0803	12.57	1245.10	
					10/22/2019 1730	12.53	1245.14	
					9/8/2021 1202	13.74	1243.93	
SW-04D	1602328.65	358265.16	1148.65	B	4/21/2010 0000	NM	-	Artesian well
					7/12/2011 1415	NM	-	Artesian well
					10/17/2012 1152	NM	-	Artesian well
					10/17/2012 1208	3.30	1145.35	
					10/16/2013 0910	-19.38	1168.03	8.4 psi at wellhead
					10/14/2014 1648	-20.07	1168.72	8.7 psi at wellhead
					10/7/2015 1017	-12.69	1161.34	5.5 psi at wellhead
					1/23/2017 0000	-10.96	1159.61	4.75 psi at wellhead
					12/5/2017 1427	-11.53	1160.18	5.0 psi at wellhead
					10/21/2019 1500	-12.68	1161.33	5.5 psi at wellhead
					9/7/2021 1750	-16.15	1164.80	7.0 psi at wellhead
SW-04S	1602315.5	358278.21	1148.00	A	4/21/2010 0000	2.83	1145.17	
					7/12/2011 1420	3.40	1144.60	
					10/17/2012 1153	3.20	1144.80	
					10/16/2013 1018	3.35	1144.65	
					10/14/2014 1543	3.13	1144.87	
					10/7/2015 0920	3.26	1144.74	
					1/23/2017 0000	2.83	1145.17	
					12/5/2017 1506	3.10	1144.90	
					10/21/2019 1400	2.87	1145.13	
					9/7/2021 1649	2.95	1145.05	

NM - No Measurement

Geologic Zone: A - Shallow Unconfined Aquifer. B - Deep Unconfined Aquifer.

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN 2021 GROUNDWATER MONITORING EVENT
ROSE VALLEY LANDFILL

Location ID				MW-03	MW-04	MW-16	SW-01D	SW-01S
Sample ID				MW-03	MW-04	MW-16	SW-01D	FD-090821
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/07/21	09/07/21	09/07/21	09/08/21	09/08/21
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					Field Duplicate (1-1)
Volatile Organic Compounds								
1,1-Dichloroethane	UG/L	5	-	0.93 J	7.6			
1,2-Dichloroethene (cis)	UG/L	5	-	3.7	1.2			
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	0.23	4.6	0.42	NA	5.4 J
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	6.1	0.69 J	0.40 J	NA	0.24 J
Perfluorobutanoic acid (PFBA)	NG/L	-	100	3.2 J			NA	
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	7.3	2.3	0.49 J	NA	0.36 J
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	13	1.2 J		NA	1.6 J
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	5.9	2.6 NJ		NA	
Perfluorooctanoic acid (PFOA)	NG/L	-	10	18	7.7	1.3 J	NA	3.5
Perfluoropentanoic acid (PFPA)	NG/L	-	100	2.6	1.8		NA	
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	56.1	16.29	2.19	NA	5.7

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

- = No standard or guidance value.

Empty cell or ND - Not detected. J - The reported concentration is an estimated value. NA - Not analyzed.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN 2021 GROUNDWATER MONITORING EVENT
ROSE VALLEY LANDFILL

Location ID				SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Sample ID				SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/08/21	09/08/21	09/08/21	09/08/21	09/07/21
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1		NA			NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	0.18 J	NA		0.58 J	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100		NA			NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	0.49 J	NA			NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	1.4 J	NA			NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100		NA			NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	3.3	NA		1.0 J	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	100		NA			NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	5.37	NA	ND	1.58	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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Empty cell or ND - Not detected. J - The reported concentration is an estimated value. NA - Not analyzed.

Only Detected Results Reported.

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TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN 2021 GROUNDWATER MONITORING EVENT
ROSE VALLEY LANDFILL

Location ID				SW-04S
Sample ID				SW-04S
Matrix				Groundwater
Depth Interval (ft)				-
Date Sampled				09/07/21
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	
Volatile Organic Compounds				
1,1-Dichloroethane	UG/L	5	-	
1,2-Dichloroethene (cis)	UG/L	5	-	
Semivolatile Organic Compounds				
1,4-Dioxane	UG/L	-	1	0.51
Per- and Polyfluoroalkyl Substances				
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	
Perfluorobutanoic acid (PFBA)	NG/L	-	100	
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	0.63 J
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	0.76 J
Perfluorooctanoic acid (PFOA)	NG/L	-	10	1.6 J
Perfluoropentanoic acid (PFPA)	NG/L	-	100	0.52 J
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	3.51

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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Empty cell or ND - Not detected. J - The reported concentration is an estimated value. NA - Not analyzed.

Only Detected Results Reported.

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[LOGDATE] >= #9/7/2021# AND [MATRIX] = 'WG'

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-03	MW-03	MW-03	MW-03	MW-03
Sample ID				MW-03	MW-03	MW-03	MW-03	MW-03
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				04/21/10	07/13/11	10/18/12	10/16/13	10/15/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-	2.3	2.2	3 J	1.9	1.6
1,2-Dichloroethane	UG/L	0.6	-					0.79 J
1,2-Dichloroethene (cis)	UG/L	5	-	7.1	8.0	11	6.6	5.5
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-	0.75 J				
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-		NA	NA	NA	NA
Barium	UG/L	1000	-	47.6	NA	NA	NA	NA
Cadmium	UG/L	5	-		NA	NA	NA	NA
Calcium	UG/L	-	-	225,000	NA	NA	NA	NA
Chromium	UG/L	50	-		NA	NA	NA	NA
Iron	UG/L	300	-	252	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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Concentration Exceeds Criteria (1)

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NJ - Tentative identification with an estimated concentration.

Only Detected Results Reported.

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-03	MW-03	MW-03	MW-03	MW-03
Sample ID				MW-03	MW-03	MW-03	MW-03	MW-03
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				04/21/10	07/13/11	10/18/12	10/16/13	10/15/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	18,600	NA	NA	NA	NA
Manganese	UG/L	300	-	2,450	NA	NA	NA	NA
Potassium	UG/L	-	-	3,320	NA	NA	NA	NA
Sodium	UG/L	20000	-	3,800	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-		NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-03	MW-03	MW-03	MW-03	MW-03
Sample ID				MW-03	MW-03	MW-3	MW-03	MW-03
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/07/15	01/24/17	12/05/17	10/22/19	09/07/21
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-	1.7	6.3	1.4	1.2	0.93 J
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-	6.2	0.92 J	4.1	4.8	3.7
Acetone	UG/L	50	-			2.9 J		
Benzene	UG/L	1	-			0.26 J		
Carbon disulfide	UG/L	60	-		0.27 J			
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	0.12 J	0.34	0.23
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-03	MW-03	MW-03	MW-03	MW-03
Sample ID				MW-03	MW-03	MW-3	MW-03	MW-03
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/07/15	01/24/17	12/05/17	10/22/19	09/07/21
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	1.5	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	5.6	5.4	6.1
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	5.5	4.0	3.2 J
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	9.5	8.6	7.3
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	15	13	13
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	6.7	8.1	5.9
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA			
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	0.53 J		
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	13	16	18
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	3.1	3.7	2.6
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA			
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	58.93	58.8	56.1

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-04	MW-04	MW-04	MW-04	MW-04
Sample ID				MW-04	MW-04	MW-04	MW-04	MW-04
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				04/21/10	07/13/11	10/18/12	10/16/13	10/15/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-	9.3	10	15	11	9.6
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-	2.3	2.4	3 J		1.1
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-		0.35 J			
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-	0.86 J		1 J		
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-		NA	NA	NA	NA
Barium	UG/L	1000	-	16.0	NA	NA	NA	NA
Cadmium	UG/L	5	-		NA	NA	NA	NA
Calcium	UG/L	-	-	171,000	NA	NA	NA	NA
Chromium	UG/L	50	-		NA	NA	NA	NA
Iron	UG/L	300	-	1,050	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-04	MW-04	MW-04	MW-04	MW-04
Sample ID				MW-04	MW-04	MW-04	MW-04	MW-04
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				04/21/10	07/13/11	10/18/12	10/16/13	10/15/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	31,700	NA	NA	NA	NA
Manganese	UG/L	300	-	525	NA	NA	NA	NA
Potassium	UG/L	-	-	1,130	NA	NA	NA	NA
Sodium	UG/L	20000	-	14,100	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-		NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

- = No standard or guidance value.

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Only Detected Results Reported.

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-04	MW-04	MW-04	MW-04	MW-04
Sample ID				MW-04	MW-04	MW-4	MW-04	MW-04
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/07/15	01/24/17	12/05/17	10/22/19	09/07/21
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-	11	6.4	6.3	6.1 J	7.6
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-	1.5	0.93 J	0.75 J	0.88 J	1.2
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-			0.30 J		
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	2.9	6.2	4.6
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

- = No standard or guidance value.

Empty cell or ND - Not detected. J - The reported concentration is an estimated value.

NJ - Tentative identification with an estimated concentration.

Only Detected Results Reported.

C:\Temp\Temp\WA-31 Rose Valley\DB\EDMS.mde
Printed: 10/27/2021 4:30:36 PM
[MATRIX] = 'WG' AND [LOGDATE] >= #4/20/2010#

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-04	MW-04	MW-04	MW-04	MW-04
Sample ID				MW-04	MW-04	MW-4	MW-04	MW-04
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/07/15	01/24/17	12/05/17	10/22/19	09/07/21
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	0.89 J	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	0.31 J	0.76 J	0.69 J
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	4.9	1.5 J	
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	1.6 J	2.1	2.3
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA		1.4 J	1.2 J
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	1.8 J	2.8	2.6 NJ
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA			
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA			
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	4.1	6.6	7.7
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	1.2 J	2.1	1.8
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA			
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	13.91	17.26	16.29

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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NJ - Tentative identification with an estimated concentration.

Only Detected Results Reported.

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-16	MW-16	MW-16	MW-16	MW-16
Sample ID				MW-16	MW-16	MW-16	MW-16	MW-16
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				04/21/10	07/13/11	10/18/12	10/16/13	10/15/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-		NA	NA	NA	NA
Barium	UG/L	1000	-	31.0	NA	NA	NA	NA
Cadmium	UG/L	5	-		NA	NA	NA	NA
Calcium	UG/L	-	-	77,900	NA	NA	NA	NA
Chromium	UG/L	50	-		NA	NA	NA	NA
Iron	UG/L	300	-	16,600	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-16	MW-16	MW-16	MW-16	MW-16
Sample ID				MW-16	MW-16	MW-16	MW-16	MW-16
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				04/21/10	07/13/11	10/18/12	10/16/13	10/15/14
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	8,150	NA	NA	NA	NA
Manganese	UG/L	300	-	1,090	NA	NA	NA	NA
Potassium	UG/L	-	-		NA	NA	NA	NA
Sodium	UG/L	20000	-	5,800	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-		NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-16	MW-16	MW-16	MW-16	MW-16
Sample ID				MW-16	DUP-02	MW-16	MW-16	MW-16
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/07/15	01/23/17	01/23/17	12/05/17	10/21/19
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (1-1)			
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-				5.7 J	
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-	0.38 J				
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	0.28 J	
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-16	MW-16	MW-16	MW-16	MW-16
Sample ID				MW-16	DUP-02	MW-16	MW-16	MW-16
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/07/15	01/23/17	01/23/17	12/05/17	10/21/19
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA	NA
Uranium	UG/L	30	-	NA			NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	0.28 J	0.40 J
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA		
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	0.59 J	
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA		
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA		
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA		
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA		
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	1.3 J	1.7
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA		
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA		
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	2.17	2.1

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-16	SW-01D	SW-01D	SW-01D	SW-01D
Sample ID				MW-16	DUP-2	SW-01D	SW-01D	SW-01D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/07/21	04/21/10	04/21/10	07/12/11	10/17/12
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (1-1)			
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	0.42	NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-	NA			NA	NA
Barium	UG/L	1000	-	NA	71.2	70.2	NA	NA
Cadmium	UG/L	5	-	NA			NA	NA
Calcium	UG/L	-	-	NA	28,600	27,600	NA	NA
Chromium	UG/L	50	-	NA			NA	NA
Iron	UG/L	300	-	NA	292 J	631 J	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				MW-16	SW-01D	SW-01D	SW-01D	SW-01D
Sample ID				MW-16	DUP-2	SW-01D	SW-01D	SW-01D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/07/21	04/21/10	04/21/10	07/12/11	10/17/12
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (1-1)			
Metals								
Magnesium	UG/L	35000	-	NA	14,000	13,500	NA	NA
Manganese	UG/L	300	-	NA	8.8	11.8	NA	NA
Potassium	UG/L	-	-	NA	1,940	1,890	NA	NA
Sodium	UG/L	20000	-	NA	10,200	9,900	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA			NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	0.40 J	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100		NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	0.49 J	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100		NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100		NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-		NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10		NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	1.3 J	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-		NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100		NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	2.19	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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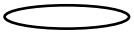
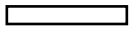


Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard or guidance value.

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Only Detected Results Reported.

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-01D	SW-01D	SW-01D	SW-01D	SW-01D
Sample ID				SW-01D	SW-01D	SW-01D	SW-01D	SW-1D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/15/13	10/14/14	10/06/15	01/24/17	12/05/17
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-01D	SW-01D	SW-01D	SW-01D	SW-01D
Sample ID				SW-01D	SW-01D	SW-01D	SW-01D	SW-1D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/15/13	10/14/14	10/06/15	01/24/17	12/05/17
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

- = No standard or guidance value.

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NJ - Tentative identification with an estimated concentration.

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-01D	SW-01D	SW-01S	SW-01S	SW-01S
Sample ID				SW-01D	SW-01D	SW-01S	FD-071211	SW-01S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/21/19	09/08/21	04/21/10	07/12/11	07/12/11
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**				Field Duplicate (1-1)	
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1		NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-	NA	NA	5,830	NA	NA
Barium	UG/L	1000	-	NA	NA	33.4	NA	NA
Cadmium	UG/L	5	-	NA	NA		NA	NA
Calcium	UG/L	-	-	NA	NA	109,000	NA	NA
Chromium	UG/L	50	-	NA	NA	6.9	NA	NA
Iron	UG/L	300	-	NA	NA	3,700	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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NJ - Tentative identification with an estimated concentration.

Only Detected Results Reported.

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-01D	SW-01D	SW-01S	SW-01S	SW-01S
Sample ID				SW-01D	SW-01D	SW-01S	FD-071211	SW-01S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/21/19	09/08/21	04/21/10	07/12/11	07/12/11
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**				Field Duplicate (1-1)	
Metals								
Magnesium	UG/L	35000	-	NA	NA	4,000	NA	NA
Manganese	UG/L	300	-	NA	NA	50.5	NA	NA
Potassium	UG/L	-	-	NA	NA	2,080	NA	NA
Sodium	UG/L	20000	-	NA	NA	2,100	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	6.6	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100		NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100		NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100		NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100		NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100		NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-		NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10		NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10		NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-		NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100		NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	ND	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-01S	SW-01S	SW-01S	SW-01S	SW-01S
Sample ID				SW-01S	SW-01S	SW-01S	SW-01S	SW-01S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/17/12	10/15/13	10/14/14	10/06/15	01/24/17
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

- = No standard or guidance value.

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Only Detected Results Reported.

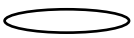
TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-01S	SW-01S	SW-01S	SW-01S	SW-01S
Sample ID				SW-01S	SW-01S	SW-01S	SW-01S	SW-01S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/17/12	10/15/13	10/14/14	10/06/15	01/24/17
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	NA	NA

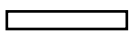
Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

- = No standard or guidance value.

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NJ - Tentative identification with an estimated concentration.

Only Detected Results Reported.

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-01S	SW-01S	SW-01S	SW-01S	SW-02D
Sample ID				SW-1S	SW-01S	FD-090821	SW-01S	SW-02D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/05/17	10/22/19	09/08/21	09/08/21	04/22/10
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (1-1)		
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-	3.5 J				
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA		5.4 J		NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	443
Barium	UG/L	1000	-	NA	NA	NA	NA	65.7
Cadmium	UG/L	5	-	NA	NA	NA	NA	
Calcium	UG/L	-	-	NA	NA	NA	NA	62,800
Chromium	UG/L	50	-	NA	NA	NA	NA	4.1
Iron	UG/L	300	-	NA	NA	NA	NA	433

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

C:\Temp\Temp\WA-31 Rose Valley\DB\EDMS.mde
Printed: 10/27/2021 4:30:38 PM
[MATRIX] = 'WG' AND [LOGDATE] >= #4/20/2010#

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-01S	SW-01S	SW-01S	SW-01S	SW-02D
Sample ID				SW-1S	SW-01S	FD-090821	SW-01S	SW-02D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/05/17	10/22/19	09/08/21	09/08/21	04/22/10
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**			Field Duplicate (1-1)		
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	22,300
Manganese	UG/L	300	-	NA	NA	NA	NA	10.2
Potassium	UG/L	-	-	NA	NA	NA	NA	1,870
Sodium	UG/L	20000	-	NA	NA	NA	NA	7,500
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	2.9	0.24 J	0.18 J	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	2.8			NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	9.2	0.36 J	0.49 J	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	11	1.6 J	1.4 J	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	9.7			NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA				NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA				NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	25	3.5	3.3	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	3.0			NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA				NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	63.6	5.7	5.37	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-02D	SW-02D	SW-02D	SW-02D	SW-02D
Sample ID				SW-02D	FD-101712	SW-02D	FD-101513	SW-02D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				07/12/11	10/17/12	10/17/12	10/15/13	10/15/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (1-1)		Field Duplicate (1-1)	
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-02D	SW-02D	SW-02D	SW-02D	SW-02D
Sample ID				SW-02D	FD-101712	SW-02D	FD-101513	SW-02D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				07/12/11	10/17/12	10/17/12	10/15/13	10/15/13
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**		Field Duplicate (1-1)		Field Duplicate (1-1)	
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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Concentration Exceeds Criteria (1)

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-02D	SW-02D	SW-02D	SW-02D	SW-02D
Sample ID				FIELD DUP GW	SW-02D	SW-02D	SW-02D	SW-2D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/14/14	10/14/14	10/06/15	01/25/17	12/06/17
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					4.0 J
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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Concentration Exceeds Criteria (2)

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-02D	SW-02D	SW-02D	SW-02D	SW-02D
Sample ID				FIELD DUP GW	SW-02D	SW-02D	SW-02D	SW-2D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/14/14	10/14/14	10/06/15	01/25/17	12/06/17
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)				
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	NA	
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA	NA	
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	NA	
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA	NA	
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA	NA	
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA	NA	0.89 J
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA	NA	
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	NA	
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA	NA	
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA	NA	
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	NA	0.89

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

- = No standard or guidance value.

Empty cell or ND - Not detected. J - The reported concentration is an estimated value.

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Only Detected Results Reported.

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[MATRIX] = 'WG' AND [LOGDATE] >= #4/20/2010#

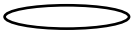
TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-02D	SW-02D	SW-02D	SW-02S	SW-02S
Sample ID				DUP-GW-01	SW-02D	SW-02D	SW-02S	SW-02S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/22/19	10/22/19	09/08/21	04/22/10	07/12/11
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-				1.9	
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1			NA	NA	NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA		NA
Barium	UG/L	1000	-	NA	NA	NA	2.9	NA
Cadmium	UG/L	5	-	NA	NA	NA		NA
Calcium	UG/L	-	-	NA	NA	NA	57,400	NA
Chromium	UG/L	50	-	NA	NA	NA		NA
Iron	UG/L	300	-	NA	NA	NA		NA

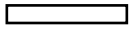
Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-02D	SW-02D	SW-02D	SW-02S	SW-02S
Sample ID				DUP-GW-01	SW-02D	SW-02D	SW-02S	SW-02S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/22/19	10/22/19	09/08/21	04/22/10	07/12/11
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)				
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	2,240	NA
Manganese	UG/L	300	-	NA	NA	NA		NA
Potassium	UG/L	-	-	NA	NA	NA		NA
Sodium	UG/L	20000	-	NA	NA	NA	1,000	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA		NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100			NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100			NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100			NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100			NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100			NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-			NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10			NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10			NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-			NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100			NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	ND	ND	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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[MATRIX] = 'WG' AND [LOGDATE] >= #4/20/2010#

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-02S	SW-02S	SW-02S	SW-02S	SW-02S
Sample ID				SW-02S	SW-02S	SW-02S	FD-100615	SW-02S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/17/12	10/15/13	10/14/14	10/06/15	10/06/15
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**				Field Duplicate (1-1)	
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-	1 J	1.0	1.6	0.91 J	1.1
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-02S	SW-02S	SW-02S	SW-02S	SW-02S
Sample ID				SW-02S	SW-02S	SW-02S	FD-100615	SW-02S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/17/12	10/15/13	10/14/14	10/06/15	10/06/15
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**				Field Duplicate (1-1)	
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-02S	SW-02S	SW-02S	SW-02S	SW-03S
Sample ID				SW-02S	SW-2S	SW-02S	SW-02S	SW-03S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/25/17	12/06/17	10/22/19	09/08/21	04/22/10
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-		1.3	1.1		
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-		3.5 J			
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA			NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	
Barium	UG/L	1000	-	NA	NA	NA	NA	8.8
Cadmium	UG/L	5	-	NA	NA	NA	NA	
Calcium	UG/L	-	-	NA	NA	NA	NA	74,400
Chromium	UG/L	50	-	NA	NA	NA	NA	
Iron	UG/L	300	-	NA	NA	NA	NA	

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

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TABLE 3
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ROSE VALLEY LANDFILL

Location ID				SW-02S	SW-02S	SW-02S	SW-02S	SW-03S
Sample ID				SW-02S	SW-2S	SW-02S	SW-02S	SW-03S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/25/17	12/06/17	10/22/19	09/08/21	04/22/10
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	3,040
Manganese	UG/L	300	-	NA	NA	NA	NA	
Potassium	UG/L	-	-	NA	NA	NA	NA	1,910
Sodium	UG/L	20000	-	NA	NA	NA	NA	22,600
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA			NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA			NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA			NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA			NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA			NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA			NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA			NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA			NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA			NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA			NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	ND	ND	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-03S	SW-03S	SW-03S	SW-03S	SW-03S
Sample ID				SW-03S	SW-03S	SW-03S	SW-03S	SW-03S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				07/12/11	10/17/12	10/15/13	10/14/14	10/06/15
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-03S	SW-03S	SW-03S	SW-03S	SW-03S
Sample ID				SW-03S	SW-03S	SW-03S	SW-03S	SW-03S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				07/12/11	10/17/12	10/15/13	10/14/14	10/06/15
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

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[MATRIX] = 'WG' AND [LOGDATE] >= #4/20/2010#

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-03S	SW-03S	SW-03S	SW-04D	SW-04D
Sample ID				SW-3S	SW-03S	SW-03S	SW-04D	SW-04D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/06/17	10/22/19	09/08/21	04/21/10	07/13/11
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-	4.4 J				
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1				NA	NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	1,800	NA
Barium	UG/L	1000	-	NA	NA	NA	14.7	NA
Cadmium	UG/L	5	-	NA	NA	NA	2.4	NA
Calcium	UG/L	-	-	NA	NA	NA	12,200	NA
Chromium	UG/L	50	-	NA	NA	NA		NA
Iron	UG/L	300	-	NA	NA	NA	1,630	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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[MATRIX] = 'WG' AND [LOGDATE] >= #4/20/2010#

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-03S	SW-03S	SW-03S	SW-04D	SW-04D
Sample ID				SW-3S	SW-03S	SW-03S	SW-04D	SW-04D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/06/17	10/22/19	09/08/21	04/21/10	07/13/11
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	1,960	NA
Manganese	UG/L	300	-	NA	NA	NA	38.7	NA
Potassium	UG/L	-	-	NA	NA	NA	1,170	NA
Sodium	UG/L	20000	-	NA	NA	NA	32,000	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA		NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	0.35 J	0.43 J	0.58 J	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100		1.3 J		NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100				NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100				NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100				NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-				NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10				NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10		0.82 J	1.0 J	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-				NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100				NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	0.35	2.55	1.58	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

- = No standard or guidance value.

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Only Detected Results Reported.

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-04D	SW-04D	SW-04D	SW-04D	SW-04D
Sample ID				SW-04D	SW-04D	SW-04D	SW-04D	SW-04D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/17/12	10/16/13	10/14/14	10/07/15	01/23/17
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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Empty cell or ND - Not detected. J - The reported concentration is an estimated value.

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-04D	SW-04D	SW-04D	SW-04D	SW-04D
Sample ID				SW-04D	SW-04D	SW-04D	SW-04D	SW-04D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/17/12	10/16/13	10/14/14	10/07/15	01/23/17
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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[MATRIX] = 'WG' AND [LOGDATE] >= #4/20/2010#

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-04D	SW-04D	SW-04D	SW-04D	SW-04S
Sample ID				DUP-1	SW-4D	SW-04D	SW-04D	SW-04S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/05/17	12/05/17	10/21/19	09/07/21	04/21/10
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-	4.7 J	4.3 J			
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-					
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1				NA	NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	336
Barium	UG/L	1000	-	NA	NA	NA	NA	26.1
Cadmium	UG/L	5	-	NA	NA	NA	NA	
Calcium	UG/L	-	-	NA	NA	NA	NA	92,700
Chromium	UG/L	50	-	NA	NA	NA	NA	
Iron	UG/L	300	-	NA	NA	NA	NA	8,870

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-04D	SW-04D	SW-04D	SW-04D	SW-04S
Sample ID				DUP-1	SW-4D	SW-04D	SW-04D	SW-04S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				12/05/17	12/05/17	10/21/19	09/07/21	04/21/10
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**	Field Duplicate (1-1)				
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	6,900
Manganese	UG/L	300	-	NA	NA	NA	NA	2,080
Potassium	UG/L	-	-	NA	NA	NA	NA	1,940
Sodium	UG/L	20000	-	NA	NA	NA	NA	4,300
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100				NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100				NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100				NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100				NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100				NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	0.65 J	0.64 J		NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10				NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10				NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-				NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100				NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	0.65	0.64	ND	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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[MATRIX] = 'WG' AND [LOGDATE] >= #4/20/2010#

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-04S	SW-04S	SW-04S	SW-04S	SW-04S
Sample ID				SW-04S	SW-04S	SW-04S	SW-04S	SW-04S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				07/13/11	10/17/12	10/16/13	10/14/14	10/07/15
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	5	-					
1,1-Dichloroethane	UG/L	5	-					
1,2-Dichloroethane	UG/L	0.6	-					
1,2-Dichloroethene (cis)	UG/L	5	-					
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chloroethane	UG/L	5	-	0.48 J				
Chloromethane	UG/L	5	-					
Dichlorodifluoromethane	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,4-Dioxane	UG/L	-	1	NA	NA	NA	NA	NA
Metals								
Aluminum	UG/L	-	-	NA	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-04S	SW-04S	SW-04S	SW-04S	SW-04S
Sample ID				SW-04S	SW-04S	SW-04S	SW-04S	SW-04S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				07/13/11	10/17/12	10/16/13	10/14/14	10/07/15
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**					
Metals								
Magnesium	UG/L	35000	-	NA	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances								
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	NA	NA	NA	NA
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

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[MATRIX] = 'WG' AND [LOGDATE] >= #4/20/2010#

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-04S	SW-04S	SW-04S	SW-04S
Sample ID				SW-04S	SW-4S	SW-04S	SW-04S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-
Date Sampled				01/23/17	12/05/17	10/21/19	09/07/21
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**				
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	-				
1,1-Dichloroethane	UG/L	5	-				
1,2-Dichloroethane	UG/L	0.6	-				
1,2-Dichloroethene (cis)	UG/L	5	-				
Acetone	UG/L	50	-		3.8 J		
Benzene	UG/L	1	-				
Carbon disulfide	UG/L	60	-				
Chloroethane	UG/L	5	-				
Chloromethane	UG/L	5	-				
Dichlorodifluoromethane	UG/L	5	-				
Vinyl chloride	UG/L	2	-				
Semivolatile Organic Compounds							
1,4-Dioxane	UG/L	-	1	NA	0.69	1.4	0.51
Metals							
Aluminum	UG/L	-	-	NA	NA	NA	NA
Barium	UG/L	1000	-	NA	NA	NA	NA
Cadmium	UG/L	5	-	NA	NA	NA	NA
Calcium	UG/L	-	-	NA	NA	NA	NA
Chromium	UG/L	50	-	NA	NA	NA	NA
Iron	UG/L	300	-	NA	NA	NA	NA

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

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TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER
ROSE VALLEY LANDFILL

Location ID				SW-04S	SW-04S	SW-04S	SW-04S
Sample ID				SW-04S	SW-4S	SW-04S	SW-04S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-
Date Sampled				01/23/17	12/05/17	10/21/19	09/07/21
Parameter	**Units**	**Criteria (1)**	**Criteria (2)**				
Metals							
Magnesium	UG/L	35000	-	NA	NA	NA	NA
Manganese	UG/L	300	-	NA	NA	NA	NA
Potassium	UG/L	-	-	NA	NA	NA	NA
Sodium	UG/L	20000	-	NA	NA	NA	NA
Uranium	UG/L	30	-	NA	NA	NA	NA
Vanadium	UG/L	-	-	NA	NA	NA	NA
Per- and Polyfluoroalkyl Substances							
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	100	NA			
Perfluorobutanoic acid (PFBA)	NG/L	-	100	NA	2.0	1.6 J	
Perfluoroheptanoic acid (PFHpA)	NG/L	-	100	NA	0.36 J		0.63 J
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	100	NA			
Perfluorohexanoic acid (PFHxA)	NG/L	-	100	NA		0.74 J	0.76 J
Perfluorooctane sulfonamide (FOSA)	NG/L	-	-	NA	0.36 J		
Perfluorooctanesulfonic acid (PFOS)	NG/L	-	10	NA			
Perfluorooctanoic acid (PFOA)	NG/L	-	10	NA	1.0 J	1.3 J	1.6 J
Perfluoropentanoic acid (PFPA)	NG/L	-	-	NA		0.77 J	0.52 J
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	100	NA	0.51 J		
Total Per- and Polyfluoroalkyl Substances	NG/L	-	500	NA	4.23	4.41	3.51

Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA, and USEPA MCL for uranium. December

Criteria (2)- Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria (1)

Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

TABLE 4
MANN-KENDALL STATISTICAL ANALYSIS
GROUNDWATER ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

LOCID: MW-03

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,1-Dichloroethane	WG	VOA	10	10	-27	0.0083	Downward Trend
1,2-Dichloroethane	WG	VOA	10	1	-1	0.5	No Trend
1,2-Dichloroethene (cis)	WG	VOA	10	10	-29	0.0046	Downward Trend
Acetone	WG	VOA	10	1	5	0.364	No Trend
Benzene	WG	VOA	10	1	5	0.364	No Trend
Carbon disulfide	WG	VOA	10	1	3	0.431	No Trend
Dichlorodifluoromethane	WG	VOA	10	1	-9	0.242	No Trend

LOCID: MW-04

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,1-Dichloroethane	WG	VOA	10	10	-20	0.054	Downward Trend
1,2-Dichloroethene (cis)	WG	VOA	10	9	-15	0.108	No Trend
Chloroethane	WG	VOA	10	1	-7	0.3	No Trend
Dichlorodifluoromethane	WG	VOA	10	2	-13	0.146	No Trend
Vinyl chloride	WG	VOA	10	1	5	0.364	No Trend

LOCID: MW-16

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
Acetone	WG	VOA	10	1	5	0.364	No Trend
Chloromethane	WG	VOA	10	1	1	0.5	No Trend

LOCID: SW-01S

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
Acetone	WG	VOA	10	1	5	0.364	No Trend

LOCID: SW-02D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
Acetone	WG	VOA	10	1	5	0.364	No Trend

For multiple observations per time period, the Mann-Kendall test to the median was used.
Data reported as less than the detection limit were used by assigning a common value to the data that was smaller than the smallest measurement in the data set.
(1) - Probabilities for Mann-Kendall Nonparametric Test for Trend (Gilbert R.O. 1987, Table A18).
(2) - Assuming a probability of error of 10% in the analyis method and or data, then the probability of no trend as calculated by the Mann-Kendall statistic is less than 10%, then it is assumed that there is a trend.
* - Number of obsevations too small to calculate probablities.
** - Probability Undefined for S=0 and N=6, 7, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, or 35.

Only Detected Results Reported.

TABLE 4
MANN-KENDALL STATISTICAL ANALYSIS
GROUNDWATER ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

LOCID: SW-02S

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,1,1-Trichloroethane	WG	VOA	10	7	-5	0.364	No Trend
Acetone	WG	VOA	10	1	5	0.364	No Trend

LOCID: SW-03S

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
Acetone	WG	VOA	9	1	4	0.381	No Trend

LOCID: SW-04D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
Acetone	WG	VOA	10	1	5	0.364	No Trend

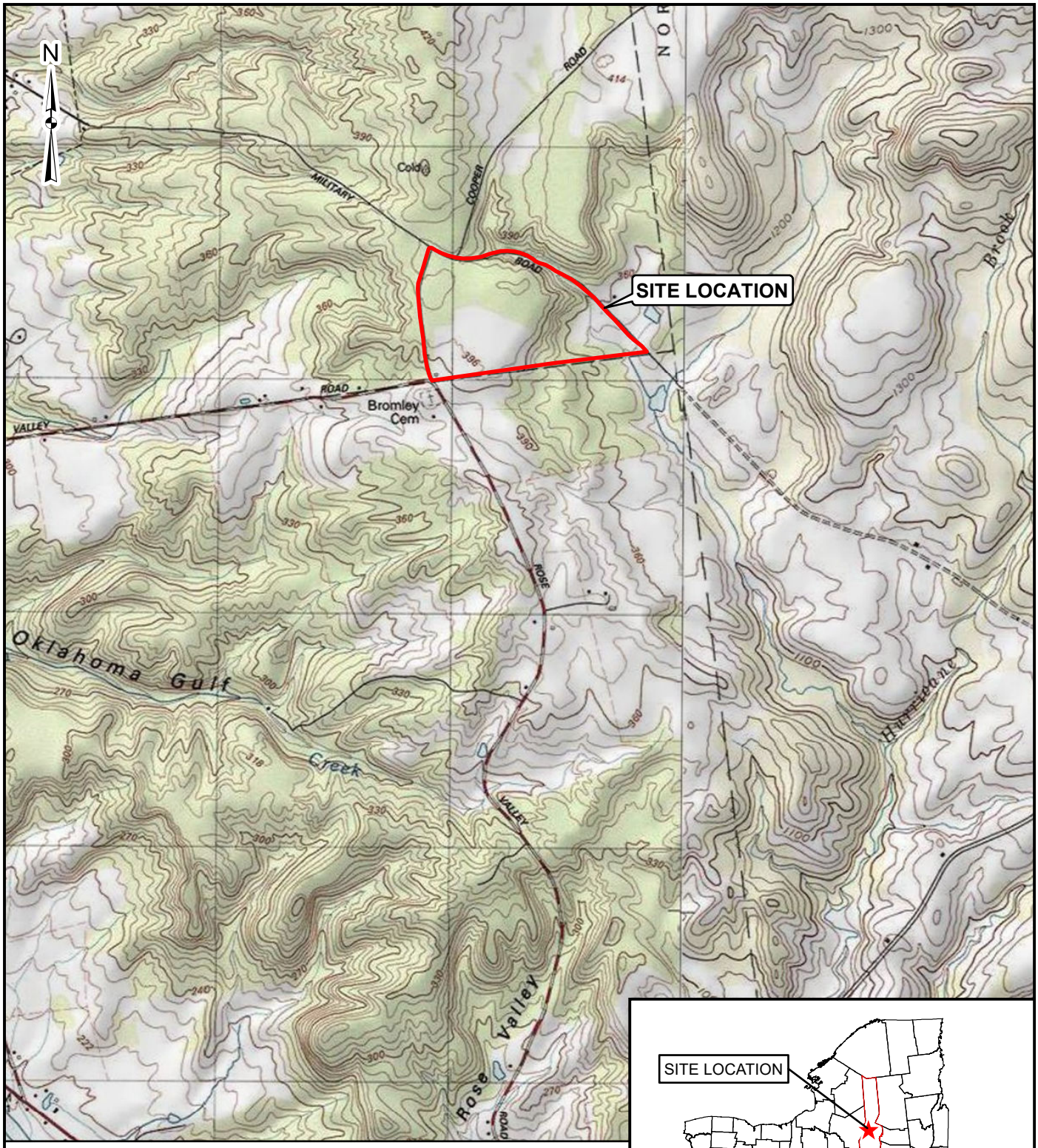
LOCID: SW-04S

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
Acetone	WG	VOA	10	1	5	0.364	No Trend
Chloroethane	WG	VOA	10	1	-7	0.3	No Trend

For multiple observations per time period, the Mann-Kendall test to the median was used.
Data reported as less than the detection limit were used by assigning a common value to the data that was smaller than the smallest measurement in the data set.
(1) - Probabilities for Mann-Kendall Nonparameteric Test for Trend (Gilbert R.O. 1987, Table A18).
(2) - Assuming a probability of error of 10% in the analyis method and or data, then the probability of no trend as calculated by the Mann-Kendall statistic is less than 10%, then it is assumed that there is a trend.
* - Number of obsevations too small to calculate probablities.
** - Probability Undefined for S=0 and N=6, 7, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, or 35.

Only Detected Results Reported.

FIGURES



Source: © 2013 National Geographic Society

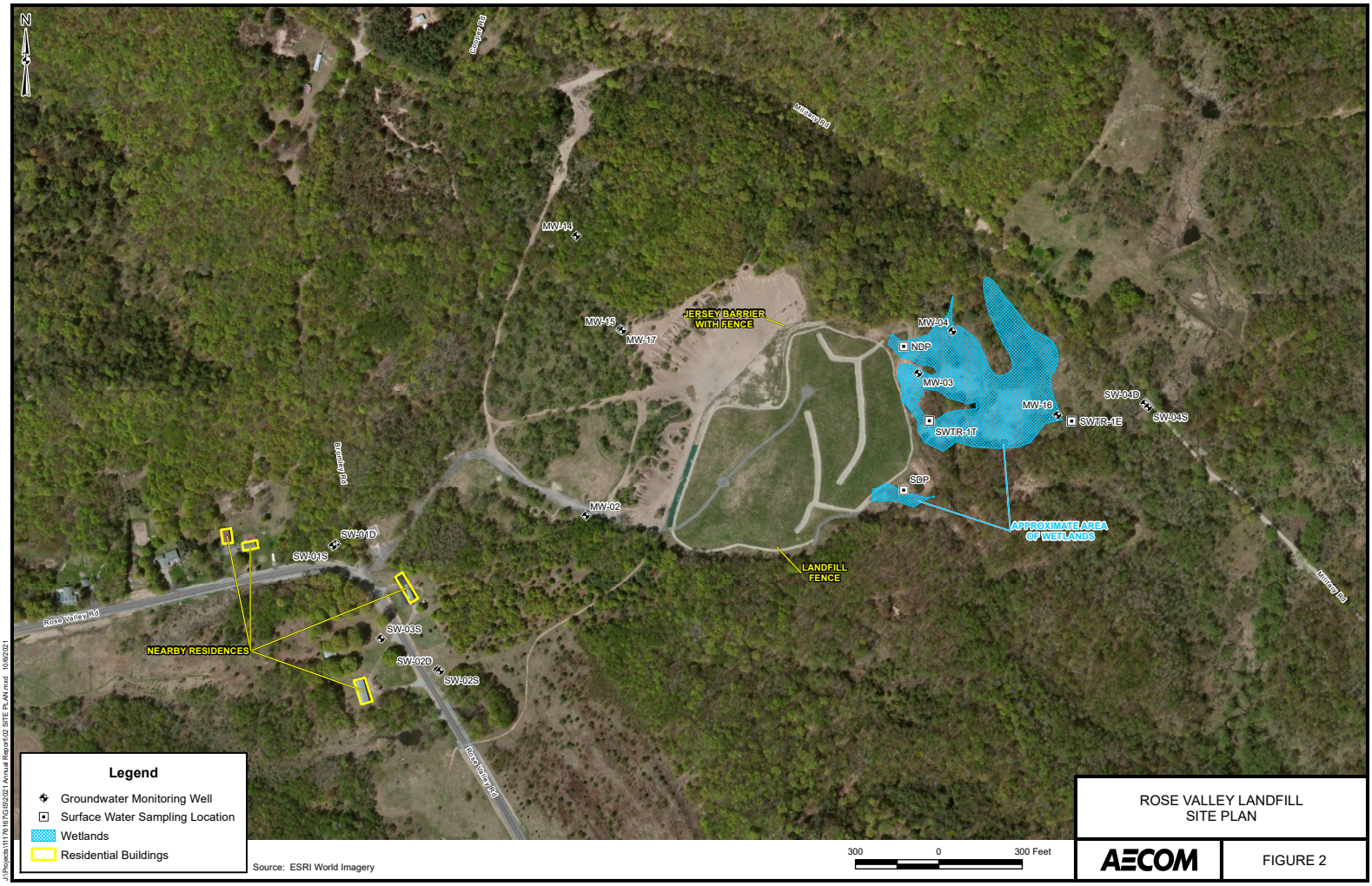
2,000 0 2,000 Feet

AECOM

ROSE VALLEY LANDFILL
SITE LOCATION

FIGURE 1

J:\Projects\11176167\GIS\2021 Annual Report\01 SITE LOCATION.mxd 10/6/2021

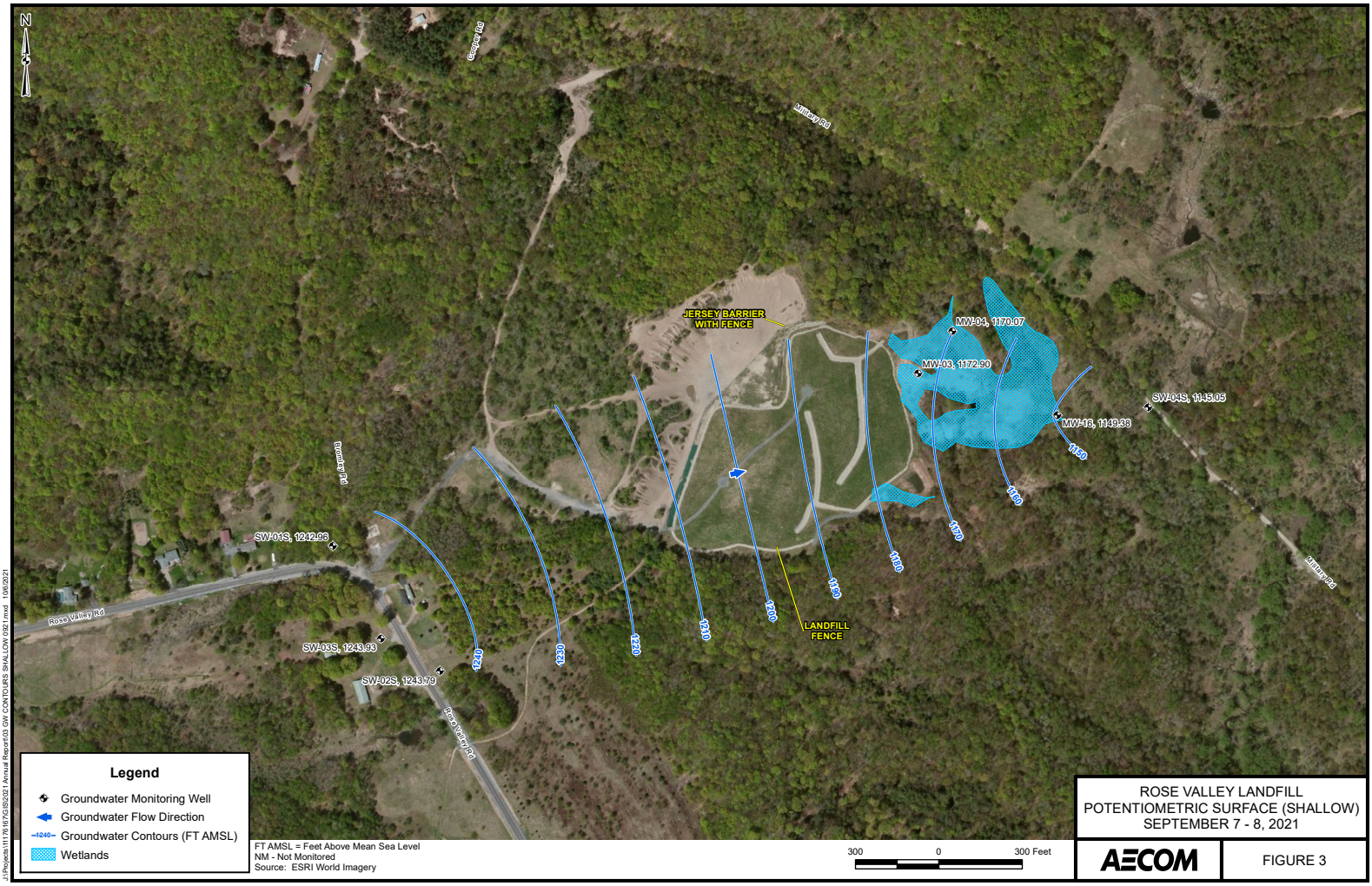


ROSE VALLEY LANDFILL
SITE PLAN

AECOM

FIGURE 2

J:\Projects\111760187\GIS\2021 Annual Report\02 SITE PLAN.mxd 10/6/2021

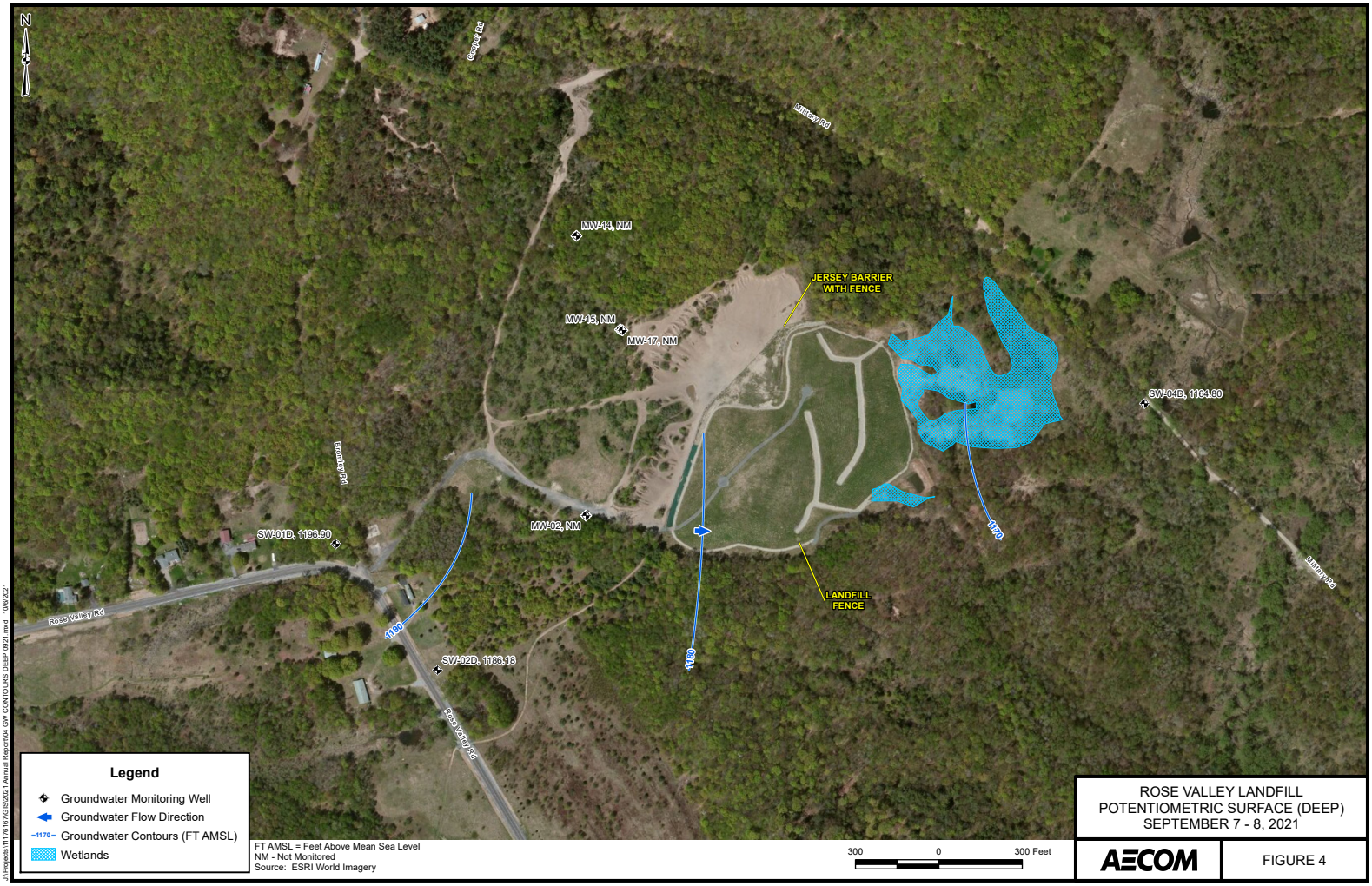


ROSE VALLEY LANDFILL
POTENTIOMETRIC SURFACE (SHALLOW)
SEPTEMBER 7 - 8, 2021

AECOM

FIGURE 3

J:\Projects\111760167\GIS\2021 Annual Report\03 GW CONTOURS SHALLOW 0921.mxd 10/6/2021



ROSE VALLEY LANDFILL
POTENTIOMETRIC SURFACE (DEEP)
SEPTEMBER 7 - 8, 2021

AECOM

FIGURE 4

J:\Projects\111767\GIS\2021 Annual Report\04 GW CONTOURS DEEP 0921.mxd 10/6/2021

Notes: BC - Below Criteria; ND - Not Detected; NS - Not Sampled for this parameter
This figure only displays those parameters that were historically detected at least once.
Criteria: NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA criteria used to determine exceedances.

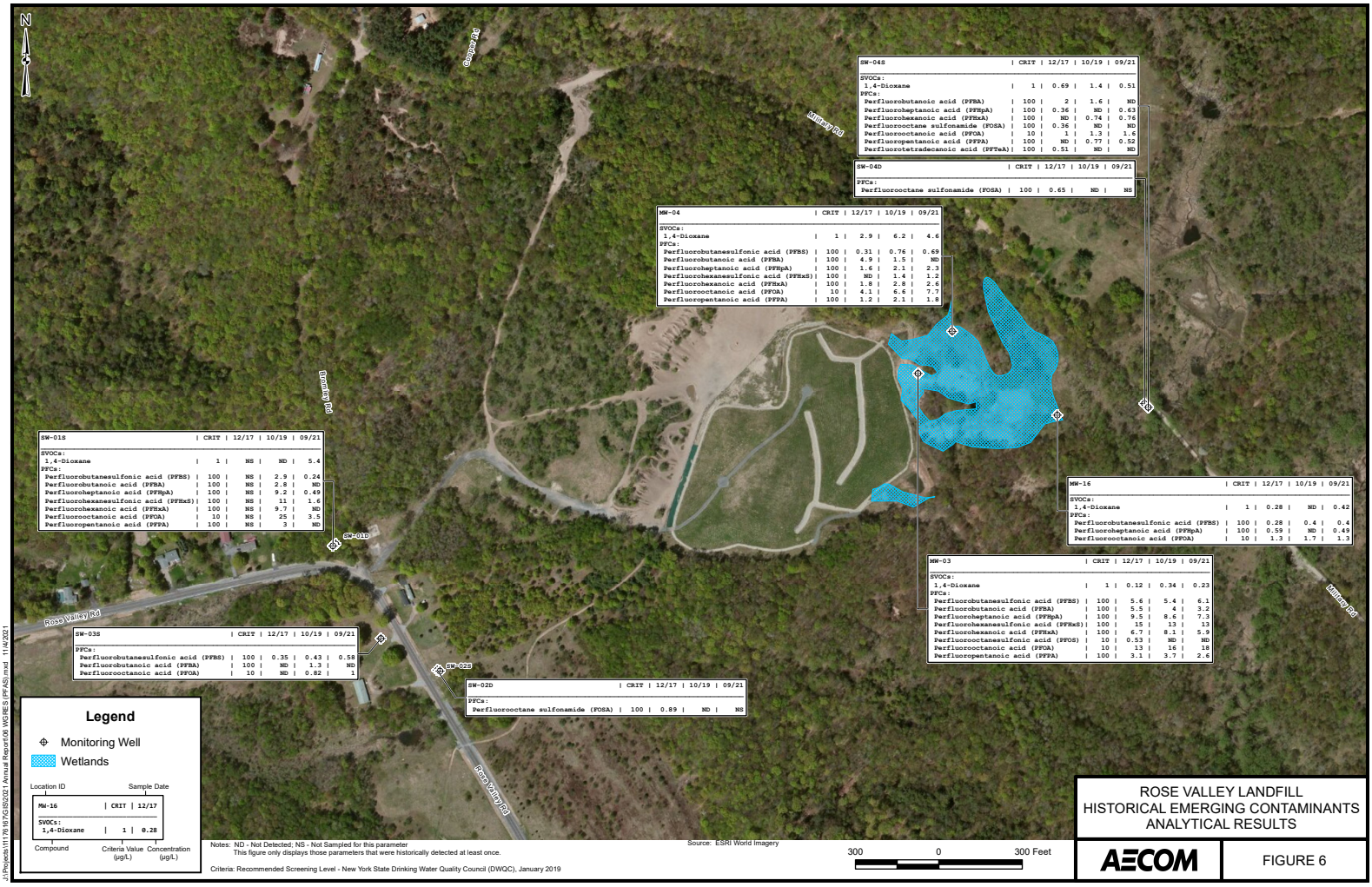
Source: ESRI World Imagery

ROSE VALLEY LANDFILL
HISTORICAL GROUNDWATER EXCEEDANCES

AECOM

FIGURE 5

L:\Projects\111767\GIS\2021 Annual Report\05 WORKS HISTORICAL.mxd 1/06/2021


N
Cooper Rd
Rumley Rd
Rose Valley Rd
SW-01D
SW-02S
SW-04S | CRIT | 12/17 | 10/19 | 09/21
SVOCs:
1,4-Dioxane | 1 | 0.69 | 1.4 | 0.51
PFCs:
Perfluorobutanoic acid (PFBA) | 100 | 2 | 1.6 | ND
Perfluoroheptanoic acid (PFHpA) | 100 | 0.36 | ND | 0.63
Perfluorohexanoic acid (PFHxA) | 100 | ND | 0.74 | 0.76
Perfluorooctane sulfonamide (FOSA) | 100 | 0.36 | ND | ND
Perfluorooctanoic acid (PFOA) | 10 | 1 | 1.3 | 1.6
Perfluoropentanoic acid (PFPA) | 100 | ND | 0.77 | 0.52
Perfluorotetradecanoic acid (PFTeA) | 100 | 0.51 | ND | ND
SW-04D | CRIT | 12/17 | 10/19 | 09/21
PFCs:
Perfluorooctane sulfonamide (FOSA) | 100 | 0.65 | ND | NS
MW-04 | CRIT | 12/17 | 10/19 | 09/21
SVOCs:
1,4-Dioxane | 1 | 2.9 | 6.2 | 4.6
PFCs:
Perfluorobutanesulfonic acid (PFBS) | 100 | 0.31 | 0.76 | 0.69
Perfluorobutanoic acid (PFBA) | 100 | 4.9 | 1.5 | ND
Perfluoroheptanoic acid (PFHpA) | 100 | 1.6 | 2.1 | 2.3
Perfluorohexanesulfonic acid (PFHxS) | 100 | ND | 1.4 | 1.2
Perfluorohexanoic acid (PFHxA) | 100 | 1.8 | 2.8 | 2.6
Perfluorooctanoic acid (PFOA) | 10 | 4.1 | 6.6 | 7.7
Perfluoropentanoic acid (PFPA) | 100 | 1.2 | 2.1 | 1.8
SW-01S | CRIT | 12/17 | 10/19 | 09/21
SVOCs:
1,4-Dioxane | 1 | NS | ND | 5.4
PFCs:
Perfluorobutanesulfonic acid (PFBS) | 100 | NS | 2.9 | 0.24
Perfluorobutanoic acid (PFBA) | 100 | NS | 2.8 | ND
Perfluoroheptanoic acid (PFHpA) | 100 | NS | 9.2 | 0.49
Perfluorohexanesulfonic acid (PFHxS) | 100 | NS | 11 | 1.6
Perfluorohexanoic acid (PFHxA) | 100 | NS | 9.7 | ND
Perfluorooctanoic acid (PFOA) | 10 | NS | 25 | 3.5
Perfluoropentanoic acid (PFPA) | 100 | NS | 3 | ND
MW-16 | CRIT | 12/17 | 10/19 | 09/21
SVOCs:
1,4-Dioxane | 1 | 0.28 | ND | 0.42
PFCs:
Perfluorobutanesulfonic acid (PFBS) | 100 | 0.28 | 0.4 | 0.4
Perfluoroheptanoic acid (PFHpA) | 100 | 0.59 | ND | 0.49
Perfluorooctanoic acid (PFOA) | 10 | 1.3 | 1.7 | 1.3
MW-03 | CRIT | 12/17 | 10/19 | 09/21
SVOCs:
1,4-Dioxane | 1 | 0.12 | 0.34 | 0.23
PFCs:
Perfluorobutanesulfonic acid (PFBS) | 100 | 5.6 | 5.4 | 6.1
Perfluorobutanoic acid (PFBA) | 100 | 5.5 | 4 | 3.2
Perfluoroheptanoic acid (PFHpA) | 100 | 9.5 | 8.6 | 7.3
Perfluorohexanesulfonic acid (PFHxS) | 100 | 15 | 13 | 13
Perfluorohexanoic acid (PFHxA) | 100 | 6.7 | 8.1 | 5.9
Perfluorooctanesulfonic acid (PFOS) | 10 | 0.53 | ND | ND
Perfluorooctanoic acid (PFOA) | 10 | 13 | 16 | 18
Perfluoropentanoic acid (PFPA) | 100 | 3.1 | 3.7 | 2.6
SW-03S | CRIT | 12/17 | 10/19 | 09/21
PFCs:
Perfluorobutanesulfonic acid (PFBS) | 100 | 0.35 | 0.43 | 0.58
Perfluorobutanoic acid (PFBA) | 100 | ND | 1.3 | ND
Perfluorooctanoic acid (PFOA) | 10 | ND | 0.82 | 1
SW-02D | CRIT | 12/17 | 10/19 | 09/21
PFCs:
Perfluorooctane sulfonamide (FOSA) | 100 | 0.89 | ND | NS
Legend
Monitoring Well
Wetlands
Location ID
Sample Date
MW-16 | CRIT | 12/17
SVOCs:
1,4-Dioxane | 1 | 0.28
Compound
Criteria Value (µg/L)
Concentration (µg/L)
Notes: ND - Not Detected; NS - Not Sampled for this parameter
This figure only displays those parameters that were historically detected at least once.
Criteria: Recommended Screening Level - New York State Drinking Water Quality Council (DWQC), January 2019
Source: ESRI World Imagery
300
0
300 Feet
ROSE VALLEY LANDFILL
HISTORICAL EMERGING CONTAMINANTS
ANALYTICAL RESULTS
AECOM
FIGURE 6
L:\Projects\111760167\GIS\2021 Annual Report\06 MXD\RES (PFAS).mxd 11/4/2021

APPENDIX A

FIELD NOTES AND WEIGH TICKETS

9/7/21
Tues.

left SL 6:35

10:30 RM on site
10:45 CD on site

~~access~~ access due to eroded road poor -

CD/RM - cleared tree branches w/ topping shears

had to cut master lock @ LF gate - 1 lock still good

Cleared brush @ gate area in order to drive truck on LF

12:45 - 1:30
purged + sampled MW-04 =

Very hard time finding MW-03
very thick vegetation Phragmites -
2:30 - 3:30 MW-03 sampled
moved to Military Road wet
" and sampled SW-04S and SW04D

started GD 5:15 pm
artesian pressure after
after ≈ 20 min. of stabilization as 7PSI
time

Moved to MW-16 - sampled -

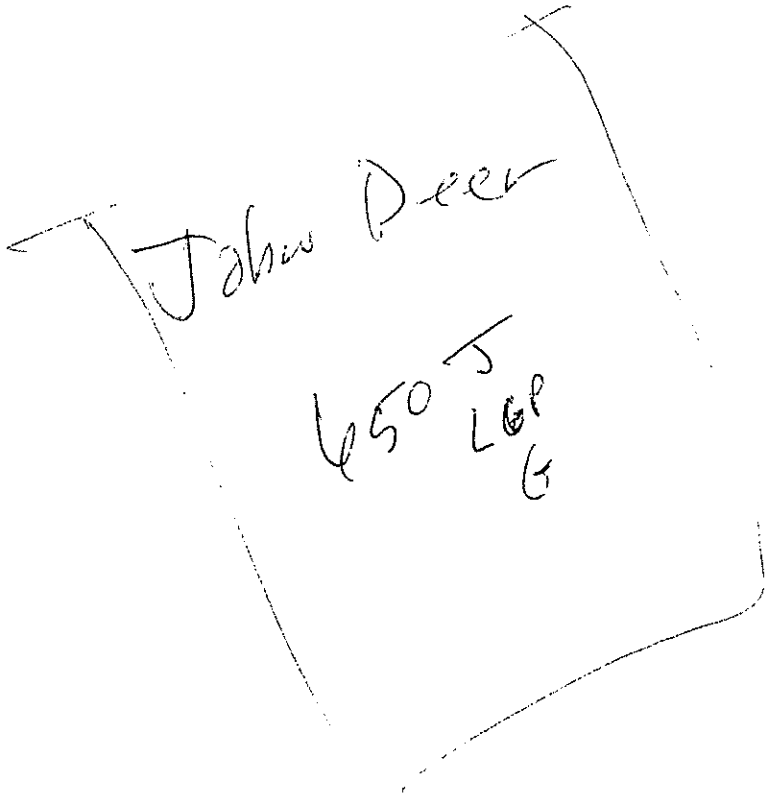
left site ≈ 7:15 for hotel
partly sunny ≈ 75°F humid

Wed. 9/8/21 Brad Weakley owner.

CD on site 8:10 am. JL
Weakley excavating already on site -
Brad
Dale - dozer operator. walked entire length
will regrade as of roadway to repair
necessary to promote proper drainage
we agreed on flow direction, etc
6 loads will not go very
far.

Mr. Powell (Sharon's husband) on site
~820
will get 3 new handed keyed alike
locks.

(3)



2 for crash gate + main gate locks

1 for C.F. gate.

Need @ least 5 Keys.

1 - Brady
2 - AECOM
1 - DEC
1 - Mower

will add to gate Bill -

talked to seven separate riders. same mult. explained deal - Staff. U rough grading

am Dale working in from RVLF Road working up towards LF using existing material reworking Crusher Run

will compact nicely

Moved brush piles /

Rds graded SW. OD and @ SW. OVS

w/ generator + grundfos submersible pump

~11:30 Moved to flush mount SW-035
~12:30 moved to

SW-02D and SW-02S
drive truck across residential property since Pine Valley stopped working

RM to leave site by ~2:00 pm

Things to do!	Wkd.	Thurs.
rough grade	✓	
place stone		
x-fer stone? Cost.	Yes. (3-4 loads)	
fine grade / compact		
- repair LF access road	✓	
- Brush hog - (Scheduled Friday)		
- gas vents -		
dope 9/9 - clear swales -	✓	Lopping shears.
- look @ MW-02	still there?	
Crush gate	✓	

(6)

Brady Fence Co. on site
owner
welder + helper 3 guys
2:30 pm ish
installed cork gate

Posted signs

~~Tasty~~ Jaroni idea for sign

"this access closed
≈ use Military Road
Entrance"

~3:30 - 4:00 left site

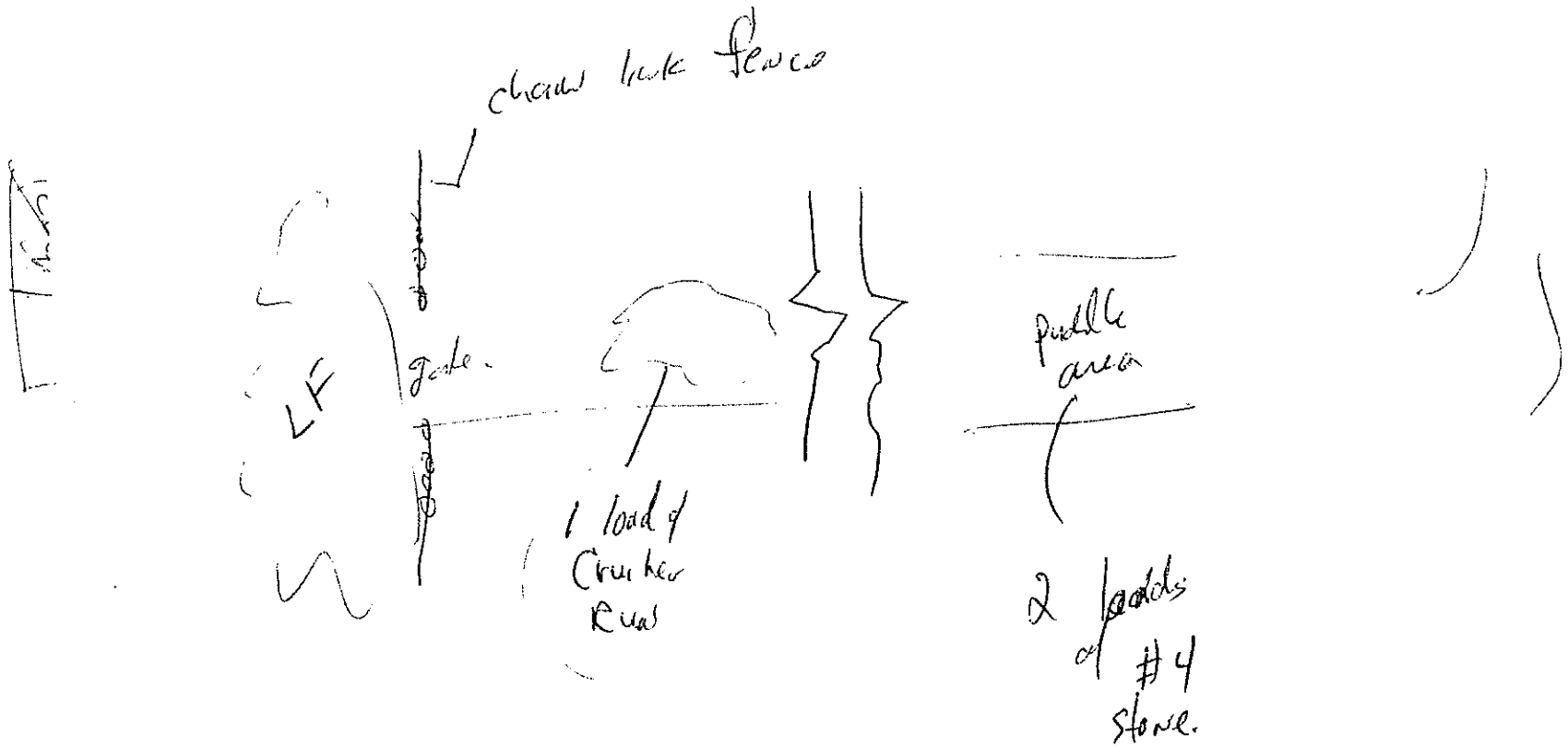
9/9 Thursday	Checkout of hotel - paperwork (1) ~9:00 on site (@ onsite)

9:15 ish 3rd load of stone being dumped
placed near LF gate area

2 loads of stone in puddle area

- Dale did not use fabric
- 1 Tandem hauling ≈ 40 min RT

(7)


chain link fence
LF
gate.
1 load of Crusher Run
puddle area
2 loads of #4 stone.

(8)

~ 10:00 am to 12:~ around

- CD cleared all small trees + brush from stove lined swale, also used 1 entire gal. of roundup

- placed ½ tandem load of crusher run down @ bottom of C.F. Road dumped as he drove up hill -

- Brad owner of exc. Co. driving truck -

- Will fix two/both methane vents and send me photos -

ATV Ryder told me he saw fence brace posts about staying off ~~Road~~ Road

- Material Sand + Gravel

(9)

site visits

Jim Sudderley
315-225-7728
418 Rose Valley Rd

Bills fan

Joyce Ocuns
Orlando, FL
sent two letter, they came back

plate map

Curious would like to stop ATC.

I left after 10th load
Brad will send me wt tickets and pic photos

- Roller
- Rebel Rod

gas vlvt repair.

many

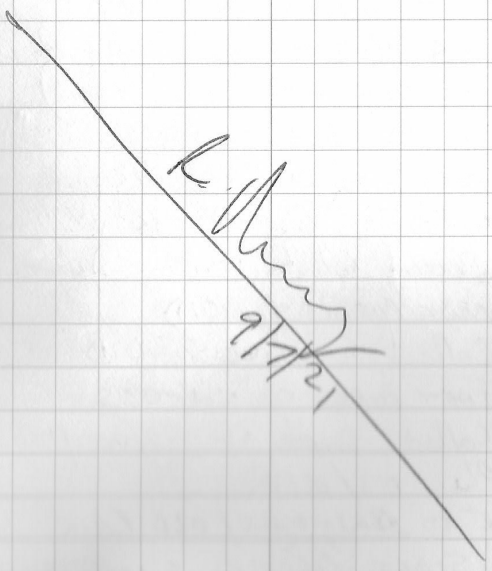
left site ~ 3:15 pm

Location ROSE VALLEY LANDFILL Date 9/7/21
Project / Client NYSDEC

CD/RM - DRIVE TO SITE WX 75°F PARTLY SUNNY HUMID
1030 RM ONSITE.
1045 CD ONSITE.
- CLEAR BRANCHES ALONG ROAD W/ LOPPING SHEARS ACCESS POOR DUE TO ERODED ROAD
- CUT MASTER LOCK @ LF GATE, NO KEY. Cleared BRUSH by gate area & drove through & along landfill Road
MOBE EQUIPMENT TO MW-04
1245 START PURGE @ MW-04
1330 Collect Sample @ MW-04 VOCs, 1,4-Dioxane PFAS
SPEND A LONG TIME LOOKING FOR MW-03. VERY HARD TO FIND IN DENSE VEGETATION ~~PHRAGMITES~~
1437 - START PURGE @ MW-03
1502 - SAMPLE MW-03 for VOCs/1,4 Dioxane PFAS
MOBE TO MILITARY ROAD
1619 - START PURGE SW-04S
1649 - SAMPLE SW-04S - VOCs, 1,4-Dioxane, PFAS
1720 - START PURGE SW-04D
1750 - SAMPLE SW-04D VOCs
- MOBE TO MW-16
1811 START PURGE @ MW-16

Location ROSE VALLEY LANDFILL Date 9/7/21
Project / Client NYSDEC

1831 - SAMPLE MW-16, VOCs + 1,4 Dioxane PFAS
CLEAN UP
~1915 - RM + CD DEPART SITE FOR HOTEL



Location ROSEVALLEY LANDFILL Date 9/8/21

Project / Client NYSDEC

0845 - 0830 R. MURPHY & C. DUSEK ONSITE
BRADY FENCE ONSITE W/ DOZER.
- DISCUSS ACTIVITIES W/ FENCE
MOBE TO SW-01S / SW-01D

Cal check Horiba Line # 25360

pH - 3.96	vs.	4.0	OK!
Cond - 4.36	vs.	4.49	
NTU - 5 NTU	vs.	0.0	

0915 - START PURGE @ SW-01S
0945 - Collect Sample @ SW-01S, VOCs/1,4-Dioxane
Collected Duplicate (FD-090821) ~~NOT~~ PFAS.
1030 - START PURGE SW-01D
1105 - Collect Sample @ SW-01D
1137 - START PURGE @ SW-03S
1202 - Collect Sample SW-03S, VOCs/1,4 Dioxane, PFAs
- Plus MS/MSD
MOBE TO ~~SW~~-02S / 02D FAIR.
1239 - START PURGE @ SW-02S
1250 BATTERY DIED ON GEOPUMP. GOT
PERMISSION FROM PROPERTY OWNER
TO DRIVE ACROSS LAWN.
1254 - RESTART PURGE

Location ROSEVALLEY LANDFILL Date 9/8/21

Project / Client NYSDEC

1314 - Collect Sample @ SW-02S for
VOCs, 1,4-Dioxane, and PFAS
1343 - START PURGE @ SW-02D
1408 - COLLECT SAMPLE @ SW-02D for
VOCs -
- Clean up all EQUIPMENT.
- STARTS TO RAIN.
- CD to stay onsite + work w/
BRADY FENCE.
RM - DEPARTS AND DRIVES BACK TO
BUFFALO.
CD KEPT NOTES RE: ROAD/GRADING

9/9/21 @ 1040 DROP SAMPLES @ LAB.

R. Murphy

MATERIAL SAND AND GRAVEL CO.

Mail Payment To: P.O. Box 8
West Sand Lake, NY 12196

NO. 330917

Quarry Address: 172 Hinckley Road
Poland, NY 13431

Phone: 315-896-5170

Washed & Processed NYS DOT Approved Materials
ASTM C33 Material Conformance

501-230188

SOLD TO	DELIVER TO	ORDER #
BRAD WEAKLEY EXCAVATING 8942 N MAIN ST POLAND, NY	~~ATWOOD LAKE~~ Rose Valley	8059
		DATE: 09/09/21

P.O. #	CUST. #	JOB NO.	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
	WEAK03	000001	72760.00	28100.00	44660.00

TRUCK	DRIVER	OWNER	HAULER	CODE
WEEW4			BRAD WEAKLEY	0

PRODUCT NO.	DESCRIPTION	SHIPPED QUANTITY	UNIT PRICE	AMOUNT
L 3&4	3 &4 LEDGE ROCK STONE	22.33		

FOB	COD	LEAVE PIT	ARRIVE JOB	START UNLOADING	TAX TOTAL
FOB	CHARGE	07:02 AM			

TONS OR YD DEL.	NO. OF LOADS DEL.	RECEIVED BY (SIGNATURE)
22.33	1	Rick

1½% PER MONTH WILL BE CHARGED ON ACCOUNTS OVER 30 DAYS OLD. ANNUAL PERCENTAGE RATE 18%.

TRUCKER'S COPY

MATERIAL SAND AND GRAVEL CO.

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West Sand Lake, NY 12196

NO. 330917

Quarry Address: 172 Hinckley Road
Poland, NY 13431

Phone: 315-896-5170

Washed & Processed NYS DOT Approved Materials
ASTM C33 Material Conformance

501-230197

SOLD TO	DELIVER TO	ORDER #
BRAD WEAKLEY EXCAVATING 8942 N MAIN ST POLAND, NY	~~ATWOOD LAKE~~ Rose Valley	8059
		DATE: 09/09/21

P.O. #	CUST. #	JOB NO.	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
	WEAK03	000001	74020.00	28100.00	45920.00

TRUCK	DRIVER	OWNER	HAULER	CODE
WEEW4			BRAD WEAKLEY	0

PRODUCT NO.	DESCRIPTION	SHIPPED QUANTITY	UNIT PRICE	AMOUNT
L 3&4	3 &4 LEDGE ROCK STONE	22.96		

FOB	COD	LEAVE PIT	ARRIVE JOB	START UNLOADING	TAX TOTAL
FOB	CHARGE	07:47 AM			

TONS OR YD DEL.	NO. OF LOADS DEL.	RECEIVED BY (SIGNATURE)
45.29	2	Rick

1½% PER MONTH WILL BE CHARGED ON ACCOUNTS OVER 30 DAYS OLD. ANNUAL PERCENTAGE RATE 18%.

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ASTM C33 Material Conformance

NO. 330936

501-230216

SOLD TO	DELIVER TO	ORDER #
BRAD WEAKLEY EXCAVATING 8942 N MAIN ST POLAND, NY	~~ATWOOD LAKE~~ Rose Valley	8059
		DATE: 09/09/21

P.O. #	CUST. #	JOB NO.	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
	WEAK03	000001	73900.00	28100.00	45800.00

TRUCK	DRIVER	OWNER	HAULER	CODE
WEEW4			BRAD WEAKLEY	0

PRODUCT NO.	DESCRIPTION	SHIPPED QUANTITY	UNIT PRICE	AMOUNT
L CR	SUBBASE TYPE2 CRUSHER RUN	22.90		

FOB	COD	LEAVE PIT	ARRIVE JOB	START UNLOADING	TAX TOTAL
FOB	CHARGE	08:35 AM			

TONS OR YD DEL.	NO. OF LOADS DEL.	RECEIVED BY (SIGNATURE)
22.90	3	

1½% PER MONTH WILL BE CHARGED ON ACCOUNTS OVER 30 DAYS OLD. ANNUAL PERCENTAGE RATE 18%.

TRUCKER'S COPY

MATERIAL SAND AND GRAVEL CO.

Mail Payment To: P.O. Box 8
West Sand Lake, NY 12196

NO. 330960

Quarry Address: 172 Hinckley Road
Poland, NY 13431

Phone: 315-896-5170

Washed & Processed NYS DOT Approved Materials
ASTM C33 Material Conformance

501-230240

SOLD TO	DELIVER TO	ORDER #
BRAD WEAKLEY EXCAVATING 8942 N MAIN ST POLAND, NY	~~ATWOOD LAKE~~ Rose Valley	8059
		DATE: 09/09/21

P.O. #	CUST. #	JOB NO.	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
	WEAK03	000001	74020.00	28100.00	45920.00

TRUCK	DRIVER	OWNER	HAULER	CODE
WEEW4			BRAD WEAKLEY	0

PRODUCT NO.	DESCRIPTION	SHIPPED QUANTITY	UNIT PRICE	AMOUNT
L CR	SUBBASE TYPE2 CRUSHER RUN	22.96		

FOB	COD	LEAVE PIT	ARRIVE JOB	START UNLOADING	TAX TOTAL
FOB	CHARGE	09:37 AM			

TONS OR YD DEL.	NO. OF LOADS DEL.	RECEIVED BY (SIGNATURE)
45.86	4	

1½% PER MONTH WILL BE CHARGED ON ACCOUNTS OVER 30 DAYS OLD. ANNUAL PERCENTAGE RATE 18%.

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MATERIAL SAND AND GRAVEL CO.

Mail Payment To: P.O. Box 8
West Sand Lake, NY 12196

NO. 330987

Quarry Address: 172 Hinckley Road
Poland, NY 13431

Phone: 315-896-5170

Washed & Processed NYS DOT Approved Materials
ASTM C33 Material Conformance

501-230267

SOLD TO	DELIVER TO	ORDER #
BRAD WEAKLEY EXCAVATING 8942 N MAIN ST POLAND, NY	~~ATWOOD LAKE~~ Rose Valley	8059 DATE 09/09/21

P.O. #	CUST. #	JOB NO.	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
	WEAK03	000001	71380.00	28100.00	43280.00

TRUCK	DRIVER	OWNER	HAULER	CODE
WEEW4			BRAD WEAKLEY	0

PRODUCT NO.	DESCRIPTION	SHIPPED QUANTITY	UNIT PRICE	AMOUNT
L CR	SUBBASE TYPE2 CRUSHER RUN	21.64		

FOB	COD	LEAVE PIT	ARRIVE JOB	START UNLOADING	TAX TOTAL
FOB	CHARGE	10:49 AM			

TONS OR YD DEL.	NO. OF LOADS DEL.	RECEIVED BY (SIGNATURE)
67.50	5	Brad

1½% PER MONTH WILL BE CHARGED ON ACCOUNTS OVER 30 DAYS OLD. ANNUAL PERCENTAGE RATE 18%.

TRUCKER'S COPY

MATERIAL SAND AND GRAVEL CO.

Mail Payment To: P.O. Box 8
West Sand Lake, NY 12196

NO. 330995

Quarry Address: 172 Hinckley Road
Poland, NY 13431

Phone: 315-896-5170

Washed & Processed NYS DOT Approved Materials
ASTM C33 Material Conformance

501-230275

SOLD TO	DELIVER TO	ORDER #
BRAD WEAKLEY EXCAVATING 8942 N MAIN ST POLAND, NY	~~ATWOOD LAKE~~ Rose Valley	8059 DATE 09/09/21

P.O. #	CUST. #	JOB NO.	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
	WEAK03	000001	72300.00	28100.00	44200.00

TRUCK	DRIVER	OWNER	HAULER	CODE
WEEW4			BRAD WEAKLEY	0

PRODUCT NO.	DESCRIPTION	SHIPPED QUANTITY	UNIT PRICE	AMOUNT
L CR	SUBBASE TYPE2 CRUSHER RUN	22.10		

FOB	COD	LEAVE PIT	ARRIVE JOB	START UNLOADING	TAX TOTAL
FOB	CHARGE	11:29 AM			

TONS OR YD DEL.	NO. OF LOADS DEL.	RECEIVED BY (SIGNATURE)
89.60	6	Brad

1½% PER MONTH WILL BE CHARGED ON ACCOUNTS OVER 30 DAYS OLD. ANNUAL PERCENTAGE RATE 18%.

TRUCKER'S COPY

MATERIAL
SAND AND GRAVEL CO.

Mail Payment To: P.O. Box 8
West Sand Lake, NY 12196

NO. 331005

Quarry Address: 172 Hinckley Road
Poland, NY 13431

Phone: 315-896-5170

Washed & Processed NYS DOT Approved Materials
ASTM C33 Material Conformance

501-230285

SOLD TO	DELIVER TO	ORDER #
BRAD WEAKLEY EXCAVATING 8942 N MAIN ST POLAND, NY	~~ATWOOD LAKE~~ Rose Valley	8059
		DATE: 09/09/21

P.O. #	CUST. #	JOB NO.	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
	WEAK03	000001	72620.00	28100.00	44520.00

TRUCK	DRIVER	OWNER	HAULER	CODE
WEEW4			BRAD WEAKLEY	0

PRODUCT NO.	DESCRIPTION	SHIPPED QUANTITY	UNIT PRICE	AMOUNT
L CR	SUBBASE TYPE2 CRUSHER RUN	22.26		

FOB	COD	LEAVE PIT	ARRIVE JOB	START UNLOADING	TAX TOTAL
FOB	CHARGE	12:10 PM			

TONS OR YD DEL.	NO. OF LOADS DEL.	RECEIVED BY (SIGNATURE)
111.86	7	Brad

1½% PER MONTH WILL BE CHARGED ON ACCOUNTS OVER 30 DAYS OLD. ANNUAL PERCENTAGE RATE 18%.

TRUCKER'S COPY

MATERIAL
SAND AND GRAVEL CO.

Mail Payment To: P.O. Box 8
West Sand Lake, NY 12196

NO. 331015

Quarry Address: 172 Hinckley Road
Poland, NY 13431

Phone: 315-896-5170

Washed & Processed NYS DOT Approved Materials
ASTM C33 Material Conformance

501-230295

SOLD TO	DELIVER TO	ORDER #
BRAD WEAKLEY EXCAVATING 8942 N MAIN ST POLAND, NY	~~ATWOOD LAKE~~ Rose Valley	8059
		DATE: 09/09/21

P.O. #	CUST. #	JOB NO.	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
	WEAK03	000001	73480.00	28100.00	45380.00

TRUCK	DRIVER	OWNER	HAULER	CODE
WEEW4			BRAD WEAKLEY	0

PRODUCT NO.	DESCRIPTION	SHIPPED QUANTITY	UNIT PRICE	AMOUNT
L CR	SUBBASE TYPE2 CRUSHER RUN	22.69		

FOB	COD	LEAVE PIT	ARRIVE JOB	START UNLOADING	TAX TOTAL
FOB	CHARGE	01:05 PM			

TONS OR YD DEL.	NO. OF LOADS DEL.	RECEIVED BY (SIGNATURE)
134.55	8	Brad

1½% PER MONTH WILL BE CHARGED ON ACCOUNTS OVER 30 DAYS OLD. ANNUAL PERCENTAGE RATE 18%.

TRUCKER'S COPY

MATERIAL SAND AND GRAVEL CO.

Mail Payment To: P.O. Box 8
West Sand Lake, NY 12196

NO. 331025

Quarry Address: 172 Hinckley Road
Poland, NY 13431

Phone: 315-896-5170

Washed & Processed NYS DOT Approved Materials
ASTM C33 Material Conformance

501-230305

SOLD TO	DELIVER TO	ORDER #
BRAD WEAKLEY EXCAVATING 8942 N MAIN ST POLAND, NY	~~ATWOOD LAKE~~ Rose Valley	8059
		DATE: 09/09/21

P.O. #	CUST. #	JOB NO.	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
	WEAK03	000001	72680.00	28100.00	44580.00

TRUCK	DRIVER	OWNER	HAULER	CODE
WEEW4			BRAD WEAKLEY	0

PRODUCT NO.	DESCRIPTION	SHIPPED QUANTITY	UNIT PRICE	AMOUNT
L CR	SUBBASE TYPE2 CRUSHER RUN	22.29		

FOB	COD	LEAVE PIT	ARRIVE JOB	START UNLOADING	TAX / TOTAL
FOB	CHARGE	01:48 PM			

TONS OR YD DEL.	NO. OF LOADS DEL.	RECEIVED BY (SIGNATURE)
171.37	10	

1½% PER MONTH WILL BE CHARGED ON ACCOUNTS OVER 30 DAYS OLD. ANNUAL PERCENTAGE RATE 18%.

TRUCKER'S COPY

MATERIAL SAND AND GRAVEL CO.

Mail Payment To: P.O. Box 8
West Sand Lake, NY 12196

NO. 331033

Quarry Address: 172 Hinckley Road
Poland, NY 13431

Phone: 315-896-5170

Washed & Processed NYS DOT Approved Materials
ASTM C33 Material Conformance

501-230313

SOLD TO	DELIVER TO	ORDER #
BRAD WEAKLEY EXCAVATING 8942 N MAIN ST POLAND, NY	ATWOOD LAKE Rose Valley	8059
		DATE: 09/09/21

P.O. #	CUST. #	JOB NO.	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
	WEAK03	000001	72780.00	28100.00	44680.00

TRUCK	DRIVER	OWNER	HAULER	CODE
WEEW4			BRAD WEAKLEY	0

PRODUCT NO.	DESCRIPTION	SHIPPED QUANTITY	UNIT PRICE	AMOUNT
L CR	SUBBASE TYPE2 CRUSHER RUN	22.34		

FOB	COD	LEAVE PIT	ARRIVE JOB	START UNLOADING	TAX / TOTAL
FOB	CHARGE	02:30 PM			

TONS OR YD DEL.	NO. OF LOADS DEL.	RECEIVED BY (SIGNATURE)
179.18	10	

1½% PER MONTH WILL BE CHARGED ON ACCOUNTS OVER 30 DAYS OLD. ANNUAL PERCENTAGE RATE 18%.

TRUCKER'S COPY

APPENDIX B
MONITORING WELL PURGE LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60641010 Site: Rose Valley Landfill Well #: MW-04

Sampling Personnel: R. Murphy, C. Dusel Date: 9/7/21 Company: AECOM

Purging/ Sampling Device: Geopump Tubing Type: HDPE Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 2.39 Depth to Well Bottom: 17.51 Well Diameter: 2" Screen Length: 10'

15.12

Casing Type: PVC Volume in 1 Well Casing (liters): 9.3 Estimated Purge Volume (liters):

Sample ID: MW-04 Sample Time: 1330 QA/QC: none

Sample Parameters: TCL VOC + TICs, 1,4-dioxane, PFAS

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1255	5.65	17.33	0.764	0.58	175	-55	~~300~~ 325	2.34
1300	5.66	13.80	0.817	0.15	174	-65	310	2.83
1305	5.74	17.34	0.743	0.00	76.9	-70	310	2.82
1310	5.79	18.14	0.723	0.00	47.4	-68	310	2.84
1315	5.84	18.18	0.718	0.00	39.1	-64	310	2.84
1320	5.93	18.11	0.714	0.00	17.7	-61	310	2.84
1325	5.99	18.04	0.714	0.00	18.6	-64	310	2.84
1330	6.02	17.97	0.715	0.00	14.9	-65	310	2.84
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60641010 Site: Rose Valley Landfill Well #: MW-03

Sampling Personnel: R. Murphy, C. Dusel Date: 9/2/21 Company: AECOM

Purging/ Sampling Device: Geopump Tubing Type: HDPE Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 2.68 Depth to Well Bottom: 17.00 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.32 × 0.8 = 8.8 Estimated Purge Volume (liters): _____

Sample ID: MW-03 Sample Time: 1502 QA/QC: none

Sample Parameters: TCL VOC + TICs, 1,4-dioxane, PFAS

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1437	5.89	12.45	0.856	0.10	30.7	-44	~~450~~ 410	2.68
1442	5.76	12.47	0.851	0.00	31.8	-56	410	3.71
1447	5.88	12.35	0.839	0.00	39.0	-64	410	3.75
1452	5.91	12.34	0.835	0.00	22.1	-66	410	3.72
1457	5.94	12.39	0.833	0.00	19.4	-69	410	3.70
1502	5.97	12.43	0.831	0.00	15.2	-71	410	3.70
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60641010 Site: Rose Valley Landfill Well #: SW-04S

Sampling Personnel: R. Murphy, C. Dusel Date: 9/7/21 Company: AECOM

Purging/ Sampling Device: Geopump Tubing Type: HDPE Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 2.95 Depth to Well Bottom: 8.07 Well Diameter: 2" Screen Length: 8'

Casing Type: PVC Volume in 1 Well Casing (liters): Estimated Purge Volume (liters):

Sample ID: SW-04S Sample Time: 1619 QA/QC: none

Sample Parameters: TCL VOC + TICs, 1,4-dioxane, PFAS

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1619	6.84	17.50	0.402	1.37	14.1	~~0.402~~ 118	~~300~~ 310	2.95
1624	6.68	17.24	0.405	0.14	26.3	~~-0~~ -134	310	3.60
1629	6.56	17.25	0.411	0.00	8.8	-128	310	4.01
1634	6.48	17.15	0.418	0.00	21.1	-128	310	4.22
1639	6.43	17.16	0.419	0.00	33.7	-127	275	4.58
1644	6.43	17.00	0.415	0.00	28.9	-130	275	4.82
1649	6.39	16.25	0.421	0.00	34.1	-129	275	5.05
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60641010 Site: Rose Valley Landfill Well #: SW-04D

Sampling Personnel: R. Murphy, C. Dusel Date: _____ Company: AECOM

Purging/ Sampling Device: Geopump Tubing Type: HDPE Tubing Inlet: Screen Midpoint

Measuring Point: Pressure gauge Initial Depth to Water: 7.0 Psi ARTESIAN Depth to Well Bottom: 84.42 Well Diameter: 2" Screen Length: 8'

Casing Type: PVC Volume in 1 Well Casing (liters): _____ Estimated Purge Volume (liters): _____

Sample ID: SW-04D Sample Time: 1750 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1720	8.10	10.33	0.155	0.0	71000	-71	~~1000~~ 900	—
1725	8.12	10.24	0.155	0.0	840	-103	1000	0.25
1730	8.13	10.23	0.155	0.0	357	-121	1000	0.68
1735	8.19	10.23	0.155	0.0	200	-141	1000	1.00
1740	8.24	10.17	0.155	0.0	100	-160	1000	1.30
1745	8.21	10.14	0.155	0.0	63.7	-164	1000	1.51
1750	8.19	10.12	0.155	0.0	48.2	-172	1000	1.71
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments: Artesian well. Pressure reading at well head = ~~5.5 psi~~ 7.0 PSI. 1 Pound Per Square Inch = 2.3067 Feet Of Water

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60641010 Site: Rose Valley Landfill Well #: MW-16

Sampling Personnel: R. Murphy, C. Dusel Date: 9/7/21 Company: AECOM

Purging/ Sampling Device: Geopump Tubing Type: HDPE Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 3.20 Depth to Well Bottom: 11.59 Well Diameter: 2" Screen Length: 8'

Casing Type: PVC Volume in 1 Well Casing (liters): Estimated Purge Volume (liters):

Sample ID: MW-16 Sample Time: 1831 QA/QC: none

Sample Parameters: TCL VOC + TICs, 1,4-dioxane, PFAS

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1811	7.08	13.53	0.387	0.0	290	-143	~~250~~ 300	4.90 3.20 R
1816	6.77	13.78	0.378	0.0	147	-134	210	5.35
1821	6.71	13.88	0.378	0.0	29.8	-137	210	6.04
1826	6.80	13.92	0.379	0.0	26.4	-145	210	6.28
1831	6.79	13.97	0.378	0.0	30.1	-143	210	6.39
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60641010 Site: Rose Valley Landfill Well #: SW-01S

Sampling Personnel: R. Murphy, C. Dusel Date: 9/8/21 Company: AECOM

Purging/ Sampling Device: Geopump Tubing Type: HDPE Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 20.21 Depth to Well Bottom: 28.42 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 8.21 5.07 Estimated Purge Volume (liters): _____

Sample ID: SW-01S Sample Time: 0945 QA/QC: FD-09082

Sample Parameters: TCL VOC + TICs, 1,4-dioxane, PFAS

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0915	6.00	13.03	0.395	9.30	15.5	190	~~240~~ 200	20.71
0920	6.49	11.58	0.387	8.42	8.5	169	240	20.91
0925	6.55	11.45	0.365	8.27	8.3	168	240	21.10
0930	6.64	11.30	0.367	8.23	5.5	172	240	21.20
0935	6.66	11.17	0.373	8.31	5.9	175	240	21.33
0940	6.63	11.20	0.380	8.17	8.5	181	240	21.49
0945	6.61	11.14	0.384	8.10	11.7	183	240	21.59
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments: ~~Water slightly turbid upon sampling. Turbidity meter might not be working properly.~~

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60641010 Site: Rose Valley Landfill Well #: SW-01D

Sampling Personnel: R. Murphy, C. Dusel Date: 9/8/21 Company: AECOM

Purging/ Sampling Device: Grundfos Tubing Type: HDPE Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 67.80 Depth to Well Bottom: 83.83 Well Diameter: 2" Screen Length: 10'

16.03

Casing Type: PVC Volume in 1 Well Casing (liters): 9.9 Estimated Purge Volume (liters):

Sample ID: SW-01D Sample Time: 1105 QA/QC: none

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1030	6.95	14.66	0.214	5.22	65.6	22	~~620~~ 500	67.80
1035	7.13	13.79	0.220	0.15	18.7	-34	600	68.62
1040	7.26	14.19	0.219	0.00	10.2	-27	520	68.90
1045	7.38	14.44	0.217	0.00	6.7	-33	~~420~~	69.18
1050	7.49	14.72	0.216	0.00	6.2	-43	~~400~~	69.35
1055	7.70	15.09	0.215	0.00	4.3	-62	340	69.60
1100	7.73	15.30	0.213	0.00	3.7	-66	350	69.74
1105	7.76	15.56	0.214	0.00	3.8	-68	350	69.79
~~1110~~								
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments: Grundfos @ ~~195 Hz initially. Changed to 190 Hz after 10 minutes (14:32), 185 Hz after 15 minutes (14:37)~~
No lock on well, concentrical Residential well cap.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60641010 Site: Rose Valley Landfill Well #: SW-03S

Sampling Personnel: R. Murphy, C. Dusel Date: 9/8/21 Company: AECOM

Purging/ Sampling Device: Geopump Tubing Type: HDPE Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 13.74 Depth to Well Bottom: 18.82 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): Estimated Purge Volume (liters):

Sample ID: SW-03S Sample Time: 1202 QA/QC: ~~none~~ MS/MSD

Sample Parameters: TCL VOC + TICs, 1,4-dioxane, PFAS

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1137	7.49	14.31	0.218	10.35	16.8	~~101~~	~~880~~ 950	13.74
1142	7.30	12.95	0.242	8.72	15.8	127	860	13.78
1147	7.21	13.02	0.258	8.74	6.9	135	860	13.78
1152	7.18	13.10	0.259	8.74	6.3	140	860	13.78
1157	7.22	13.24	0.257	8.47	6.6	135	860	13.78
1202	7.26	13.27	0.262	8.73	6.7	137	860	13.73
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments: ~~Could not locate - under ~ 1 foot of snow~~ No lock

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1220 - Collect Field Blank FB-090821

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60641010 Site: Rose Valley Landfill Well #: SW-02S

Sampling Personnel: R. Murphy, C. Dusel Date: 9/8/21 Company: AECOM

Purging/ Sampling Device: Geopump Tubing Type: HDPE Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 13.41 Depth to Well Bottom: 20.03 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): Estimated Purge Volume (liters):

Sample ID: SW-02S Sample Time: 1314 QA/QC: none

Sample Parameters: TCL VOC + TICs, 1,4-dioxane, PFAS

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
1239	7.66	13.50	0.240	7.63	12.9	123	~~425~~ 400	13.41	
1244	7.62	12.68	0.237	9.03	9.6	126	450	13.41	
1249	GET PERMISSION FROM LANDOWNER TO DRIVE TO WELL.								
1254	7.58	13.36	0.237	8.79	5.7	134	~~435~~ 435	1341	RESTART
1259	7.50	13.16	0.235	8.16	3.3	141	435	1341	
1304	7.50	12.99	0.237	8.16	3.1	137	435	13.41	
1309	7.48	13.05	0.238	8.09	1.7	143	435	13.41	
1314	7.41	13.21	0.238	8.01	2.6	149	435	1341	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments: 1250 - BATTERY DIED. PULL truck around after getting permission, restart purge 1254

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 60641010 Site: Rose Valley Landfill Well #: SW-02D

Sampling Personnel: R. Murphy, C. Dusel Date: 9/8/21 Company: AECOM

Purging/ Sampling Device: Grundfos Tubing Type: HDPE Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 70.82 Depth to Well Bottom: 79.12 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): Estimated Purge Volume (liters):

Sample ID: SW-02D Sample Time: 1408 QA/QC: None ~~DUP-GW-01, MS/MSD~~ ~~Equipment Rinse Blank collected.~~

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1343	7.50	15.41	0.369	7.21	4.5	58	~~950~~ 800	70.82
1348	7.47	14.76	0.385	0.06	2.7	-43	700	70.82
1353	7.42	15.33	0.389	0.00	2.1	-79	700	70.82
1358	7.38	15.41	0.389	0.00	1.9	-89	700	70.82
1403	7.31	15.47	0.389	0.00	2.0	-89	700	70.82
1408	7.44	15.53	0.387	0.00	1.9	-95	700	70.82
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Comments: Grundfos - ~~200 HZ~~ 189 HZ

APPENDIX C

DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT

2021 GROUNDWATER SAMPLING EVENT
ROSE VALLEY LANDFILL SITE MANAGEMENT
HERKIMER COUNTY, NEW YORK
WORK ASSIGNMENT #D009803-31
SITE NO. 622017

Analyses Performed by:

EUROFINS TESTAMERICA
AMHERST, NEW YORK
AND SACRAMENTO, CALIFORNIA

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

Prepared by:

AECOM
ONE JOHN JAMES AUDUBON PARKWAY
SUITE 210
AMHERST, NEW YORK 14228

OCTOBER 2021

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1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B-Guidance for Data Deliverables and the Development of Data Usability and Summary Reports,* May 2010. Discussed in this DUSR are analytical data for ten groundwater (GW) samples, one GW field duplicate (FD), one GW matrix spike/matrix spike duplicate (MS/MSD) pair, and one field blank collected by AECOM personnel on September 7-8, 2021 from the Rose Valley Landfill site (Site No. 622017). A trip blank accompanied the sample shipment to the lab. The samples were collected in support of NYSDEC Work Assignment # D009803-31.

2.0 ANALYTICAL METHODOLOGIES/DATA VALIDATION PROCEDURES

The samples were delivered to Eurofins TestAmerica's service center located in Syracuse, New York. The aliquots for volatile organic compounds (VOCs) and 1,4-dioxane were forwarded on to the Amherst, N.Y. location; and the aliquots for per- and polyfluorinated alkyl acids (PFASs) analysis were forwarded on to the Sacramento, CA location for analysis. The samples were analyzed for the following parameters (not all samples were analyzed for all parameters):

Parameter	**Method Number**
Target Compound List (TCL) VOCs	SW8260C
1,4-Dioxane	SW8270D Selective Ion Monitoring (SIM)
Per- and Polyfluoroalkyl Substances (PFASs)	Method 537-Modified

A limited data validation was performed following the guidelines in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B & 8260C,* SOP HW-24, Rev. 4, October 2014;

- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8270D, SOP HW-22, Rev. 5, December 2010; and*

- *Data Review Guidelines for the analysis of PFAS in Non-Potable Water and Solids. Sampling, Analysis, and Assessment Of Per- and Polyfluoroalkyl Substances (PFASs) Under NYSDEC Part 375 Remedial Programs, Appendix I - January 2021*.

The limited validation included: a review of completeness of all required deliverables; holding times; a review of quality control (QC) results [blanks, instrument tunings, calibration standards, field duplicate analyses, and MS/MSD/laboratory control sample (LCS) recoveries] to determine if the data are within the protocol-required limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Data qualifiers applied to the results during the validation included 'UJ' (estimated quantitation limit), 'J' (estimated), and NJ' (tentatively identified, approximate concentration). Definitions of USEPA Region II data qualifiers are presented at the end of this text. A summary of data qualifications is provided on Table 1. The validated analytical results are presented on Table 2 (groundwater), and Table 3 (field QC) samples. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

A full deliverable data package (i.e., NYSDEC ASP Category B, or equivalent) was provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

4.0 SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC). All samples were analyzed within the required holding times.

5.0 NON-CONFORMANCES

Field Duplicate Sample

A field duplicate was collected at GW location SW-01S and exhibited good analytical precision with

the following exception:

The relative percent difference (%RPD) between the sample and field duplicate exceeded 50% for 1,4-dioxane. The 1,4-dioxane results in these samples have been qualified 'J'/'UJ'. Since the field duplicate results seem very similar to sample MW-04 it appears that the sample aliquots may have been switched in the field or laboratory. The laboratory did investigate and could not find evidence of this on their end.

6.0 SAMPLE RESULTS AND REPORTING

All quantitation/detection limits were reported in accordance with method requirements and were adjusted for sample volume and dilution factors (if applicable). Results less than the quantitation/reporting limits/minimum level were qualified 'J' by the laboratory.

The 'E' qualifier applied by the laboratory on the SVOC Form Is for FD-090821 was crossed out. The actual result was within the calibration range; however the 'E' qualifier is generated automatically based on the labeled isotope bias corrected concentration.

The ion mass ratio for perfluorohexanoic acid (PFHxA) in sample MW-04 was outside of the labs QC limits for identification. However using analyst judgement the laboratory has reported it as a detection and qualified the result 'I'. The 'I' qualifier was changed to 'NJ' by the validator.

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'UJ' (estimated quantitation limit), 'J' (estimated), and 'NJ' (tentatively identified, approximate concentration) are considered conditionally usable. AECOM does not recommend the recollection of any samples at this time.

Prepared By: Ann Marie Kropovitch, Chemist **Date:** 10/11/21

Reviewed By: Peter R. Fairbanks, Senior Chemist **Date:** 10/11/21

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

D – The positive value is the result of an analysis at a secondary dilution factor

NJ- The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
ROSE VALLEY LANDFILL SITE

SAMPLE ID	FRACTION	ANALYTICAL DEVIATION	QUALIFICATION
SW-01S and FD-090821	SVOCs	%RPD for 1,4-dioxane > QC limit.	Qualify detected results 'J' and non-detect results 'UJ.'
MW-04	PFC	Ion mass ratio for PFHxA outside of QC limits.	Qualify detected result 'NJ.'

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

D – The positive value is the result of an analysis at a secondary dilution factor

NJ- The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		MW-03	MW-04	MW-16	SW-01D	SW-01S
Sample ID		MW-03	MW-04	MW-16	SW-01D	FD-090821
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/07/21	09/07/21	09/07/21	09/08/21	09/08/21
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	0.93 J	7.6	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	3.7	1.2	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		MW-03	MW-04	MW-16	SW-01D	SW-01S
Sample ID		MW-03	MW-04	MW-16	SW-01D	FD-090821
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/07/21	09/07/21	09/07/21	09/08/21	09/08/21
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		MW-03	MW-04	MW-16	SW-01D	SW-01S
Sample ID		MW-03	MW-04	MW-16	SW-01D	FD-090821
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/07/21	09/07/21	09/07/21	09/08/21	09/08/21
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds						
1,4-Dioxane	UG/L	0.23	4.6	0.42	NA	5.4 J
Per- and Polyfluoroalkyl Substances						
N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	NG/L	4.5 U	4.5 U	4.6 U	NA	4.5 U
Perfluorobutanesulfonic acid (PFBS)	NG/L	6.1	0.69 J	0.40 J	NA	0.24 J
Perfluorobutanoic acid (PFBA)	NG/L	3.2 J	4.5 U	4.6 U	NA	4.5 U
Perfluorodecane sulfonate (PFDS)	NG/L	1.8 U	1.8 U	1.9 U	NA	1.8 U
Perfluorodecanoic acid (PFDA)	NG/L	1.8 U	1.8 U	1.9 U	NA	1.8 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	NG/L	4.5 U	4.5 U	4.6 U	NA	4.5 U
Perfluorododecanoic acid (PFDoA)	NG/L	1.8 U	1.8 U	1.9 U	NA	1.8 U
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	1.8 U	1.8 U	1.9 U	NA	1.8 U
Perfluoroheptanoic acid (PFHpA)	NG/L	7.3	2.3	0.49 J	NA	0.36 J
Perfluorohexanesulfonic acid (PFHxS)	NG/L	13	1.2 J	1.9 U	NA	1.6 J
Perfluorohexanoic acid (PFHxA)	NG/L	5.9	2.6 NJ	1.9 U	NA	1.8 U
Perfluorononanoic acid (PFNA)	NG/L	1.8 U	1.8 U	1.9 U	NA	1.8 U
Perfluorooctane sulfonamide (FOSA)	NG/L	1.8 U	1.8 U	1.9 U	NA	1.8 U
Perfluorooctanesulfonic acid (PFOS)	NG/L	1.8 U	1.8 U	1.9 U	NA	1.8 U
Perfluorooctanoic acid (PFOA)	NG/L	18	7.7	1.3 J	NA	3.5
Perfluoropentanoic acid (PFPA)	NG/L	2.6	1.8	1.9 U	NA	1.8 U
Perfluorotetradecanoic acid (PFTeA)	NG/L	1.8 U	1.8 U	1.9 U	NA	1.8 U
Perfluorotridecanoic acid (PFTriA)	NG/L	1.8 U	1.8 U	1.9 U	NA	1.8 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		MW-03	MW-04	MW-16	SW-01D	SW-01S
Sample ID		MW-03	MW-04	MW-16	SW-01D	FD-090821
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/07/21	09/07/21	09/07/21	09/08/21	09/08/21
Parameter	Units					Field Duplicate (1-1)
Per- and Polyfluoroalkyl Substances						
Perfluoroundecanoic acid (PFUnA)	NG/L	1.8 U	1.8 U	1.9 U	NA	1.8 U
6:2 Fluorotelomer sulfonate (62FTS)	NG/L	4.5 U	4.5 U	4.6 U	NA	4.5 U
8:2 Fluorotelomer sulfonate (82FTS)	NG/L	1.8 U	1.8 U	1.9 U	NA	1.8 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

Advanced Selection: amk-temp
C:\Users\ann.marie.kropovitch\Desktop\Rose Valley Local\EDMS.mde
Printed: 10/1/2021 6:25:40 PM
[LOGDATE] > #9/1/2021# AND [LOCID] <> 'FIELDQC'

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Sample ID		SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/08/21	09/08/21	09/08/21	09/08/21	09/07/21
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Sample ID		SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/08/21	09/08/21	09/08/21	09/08/21	09/07/21
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Sample ID		SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/08/21	09/08/21	09/08/21	09/08/21	09/07/21
Parameter	**Units**					
Volatile Organic Compounds						
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds						
1,4-Dioxane	UG/L	0.20 UJ	NA	0.20 U	0.20 U	NA
Per- and Polyfluoroalkyl Substances						
N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	NG/L	4.3 U	NA	4.6 U	4.7 U	NA
Perfluorobutanesulfonic acid (PFBS)	NG/L	0.18 J	NA	1.9 U	0.58 J	NA
Perfluorobutanoic acid (PFBA)	NG/L	4.3 U	NA	4.6 U	4.7 U	NA
Perfluorodecane sulfonate (PFDS)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA
Perfluorodecanoic acid (PFDA)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	NG/L	4.3 U	NA	4.6 U	4.7 U	NA
Perfluorododecanoic acid (PFDoA)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	0.49 J	NA	1.9 U	1.9 U	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	1.4 J	NA	1.9 U	1.9 U	NA
Perfluorohexanoic acid (PFHxA)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA
Perfluorononanoic acid (PFNA)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA
Perfluorooctanoic acid (PFOA)	NG/L	3.3	NA	1.9 U	1.0 J	NA
Perfluoropentanoic acid (PFPA)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA
Perfluorotridecanoic acid (PFTriA)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Sample ID		SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/08/21	09/08/21	09/08/21	09/08/21	09/07/21
Parameter	**Units**					
Per- and Polyfluoroalkyl Substances						
Perfluoroundecanoic acid (PFUnA)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA
6:2 Fluorotelomer sulfonate (62FTS)	NG/L	4.3 U	NA	4.6 U	4.7 U	NA
8:2 Fluorotelomer sulfonate (82FTS)	NG/L	1.7 U	NA	1.9 U	1.9 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

Advanced Selection: amk-temp
C:\Users\ann.marie.kropovitch\Desktop\Rose Valley Local\EDMS.mde
Printed: 10/1/2021 6:25:40 PM
[LOGDATE] > #9/1/2021# AND [LOCID] <> 'FIELDQC'

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		SW-04S
Sample ID		SW-04S
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		09/07/21
Parameter	**Units**	
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/L	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U
1,1-Dichloroethane	UG/L	1.0 U
1,1-Dichloroethene	UG/L	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U
1,2-Dichloroethane	UG/L	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U
1,2-Dichloropropane	UG/L	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U
2-Hexanone	UG/L	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U
Acetone	UG/L	10 U
Benzene	UG/L	1.0 U
Bromodichloromethane	UG/L	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		SW-04S
Sample ID		SW-04S
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		09/07/21
Parameter	**Units**	
Volatile Organic Compounds		
Bromoform	UG/L	1.0 U
Bromomethane	UG/L	1.0 U
Carbon disulfide	UG/L	1.0 U
Carbon tetrachloride	UG/L	1.0 U
Chlorobenzene	UG/L	1.0 U
Chloroethane	UG/L	1.0 U
Chloroform	UG/L	1.0 U
Chloromethane	UG/L	1.0 U
Cyclohexane	UG/L	1.0 U
Dibromochloromethane	UG/L	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U
Ethylbenzene	UG/L	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U
Methyl acetate	UG/L	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U
Methyl tert-butyl ether	UG/L	1.0 U
Methylcyclohexane	UG/L	1.0 U
Methylene chloride	UG/L	1.0 U
Styrene	UG/L	1.0 U
Tetrachloroethene	UG/L	1.0 U
Toluene	UG/L	1.0 U
Trichloroethene	UG/L	1.0 U
Trichlorofluoromethane	UG/L	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		SW-04S
Sample ID		SW-04S
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		09/07/21
Parameter	**Units**	
Volatile Organic Compounds		
Vinyl chloride	UG/L	1.0 U
Xylene (total)	UG/L	2.0 U
Semivolatile Organic Compounds		
1,4-Dioxane	UG/L	0.51
Per- and Polyfluoroalkyl Substances		
N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	NG/L	4.8 U
Perfluorobutanesulfonic acid (PFBS)	NG/L	1.9 U
Perfluorobutanoic acid (PFBA)	NG/L	4.8 U
Perfluorodecane sulfonate (PFDS)	NG/L	1.9 U
Perfluorodecanoic acid (PFDA)	NG/L	1.9 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	NG/L	4.8 U
Perfluorododecanoic acid (PFDoA)	NG/L	1.9 U
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	1.9 U
Perfluoroheptanoic acid (PFHpA)	NG/L	0.63 J
Perfluorohexanesulfonic acid (PFHxS)	NG/L	1.9 U
Perfluorohexanoic acid (PFHxA)	NG/L	0.76 J
Perfluorononanoic acid (PFNA)	NG/L	1.9 U
Perfluorooctane sulfonamide (FOSA)	NG/L	1.9 U
Perfluorooctanesulfonic acid (PFOS)	NG/L	1.9 U
Perfluorooctanoic acid (PFOA)	NG/L	1.6 J
Perfluoropentanoic acid (PFPA)	NG/L	0.52 J
Perfluorotetradecanoic acid (PFTeA)	NG/L	1.9 U
Perfluorotridecanoic acid (PFTriA)	NG/L	1.9 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 2
ROSE VALLEY LANDFILL
VALIDATED GROUNDWATER SAMPLE RESULTS

Location ID		SW-04S
Sample ID		SW-04S
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		09/07/21
Parameter	**Units**	
Per- and Polyfluoroalkyl Substances		
Perfluoroundecanoic acid (PFUnA)	NG/L	1.9 U
6:2 Fluorotelomer sulfonate (62FTS)	NG/L	4.8 U
8:2 Fluorotelomer sulfonate (82FTS)	NG/L	1.9 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

Advanced Selection: amk-temp
C:\Users\ann.marie.kropovitch\Desktop\Rose Valley Local\EDMS.mde
Printed: 10/1/2021 6:25:41 PM
[LOGDATE] > #9/1/2021# AND [LOCID] <> 'FIELDQC'

TABLE 3
ROSE VALLEY LANDFILL
VALIDATED FIELD QC SAMPLE RESULTS

Location ID		FIELDQC	FIELDQC
Sample ID		FB-090821	TB-090721-090821
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		09/08/21	09/08/21
Parameter	Units	Field Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	NA	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	NA	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	NA	1.0 U
1,1,2-Trichloroethane	UG/L	NA	1.0 U
1,1-Dichloroethane	UG/L	NA	1.0 U
1,1-Dichloroethene	UG/L	NA	1.0 U
1,2,4-Trichlorobenzene	UG/L	NA	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	NA	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	NA	1.0 U
1,2-Dichlorobenzene	UG/L	NA	1.0 U
1,2-Dichloroethane	UG/L	NA	1.0 U
1,2-Dichloroethene (cis)	UG/L	NA	1.0 U
1,2-Dichloroethene (trans)	UG/L	NA	1.0 U
1,2-Dichloropropane	UG/L	NA	1.0 U
1,3-Dichlorobenzene	UG/L	NA	1.0 U
1,3-Dichloropropene (cis)	UG/L	NA	1.0 U
1,3-Dichloropropene (trans)	UG/L	NA	1.0 U
1,4-Dichlorobenzene	UG/L	NA	1.0 U
2-Hexanone	UG/L	NA	5.0 U
4-Methyl-2-pentanone	UG/L	NA	5.0 U
Acetone	UG/L	NA	10 U
Benzene	UG/L	NA	1.0 U
Bromodichloromethane	UG/L	NA	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 3
ROSE VALLEY LANDFILL
VALIDATED FIELD QC SAMPLE RESULTS

Location ID		FIELDQC	FIELDQC
Sample ID		FB-090821	TB-090721-090821
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		09/08/21	09/08/21
Parameter	**Units**	Field Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
Bromoform	UG/L	NA	1.0 U
Bromomethane	UG/L	NA	1.0 U
Carbon disulfide	UG/L	NA	1.0 U
Carbon tetrachloride	UG/L	NA	1.0 U
Chlorobenzene	UG/L	NA	1.0 U
Chloroethane	UG/L	NA	1.0 U
Chloroform	UG/L	NA	1.0 U
Chloromethane	UG/L	NA	1.0 U
Cyclohexane	UG/L	NA	1.0 U
Dibromochloromethane	UG/L	NA	1.0 U
Dichlorodifluoromethane	UG/L	NA	1.0 U
Ethylbenzene	UG/L	NA	1.0 U
Isopropylbenzene (Cumene)	UG/L	NA	1.0 U
Methyl acetate	UG/L	NA	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	NA	10 U
Methyl tert-butyl ether	UG/L	NA	1.0 U
Methylcyclohexane	UG/L	NA	1.0 U
Methylene chloride	UG/L	NA	0.69 J
Styrene	UG/L	NA	1.0 U
Tetrachloroethene	UG/L	NA	1.0 U
Toluene	UG/L	NA	1.0 U
Trichloroethene	UG/L	NA	1.0 U
Trichlorofluoromethane	UG/L	NA	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 3
ROSE VALLEY LANDFILL
VALIDATED FIELD QC SAMPLE RESULTS

Location ID		FIELDQC	FIELDQC
Sample ID		FB-090821	TB-090721-090821
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		09/08/21	09/08/21
Parameter	**Units**	Field Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds			
Vinyl chloride	UG/L	NA	1.0 U
Xylene (total)	UG/L	NA	2.0 U
Per- and Polyfluoroalkyl Substances			
N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	NG/L	4.3 U	NA
Perfluorobutanesulfonic acid (PFBS)	NG/L	1.7 U	NA
Perfluorobutanoic acid (PFBA)	NG/L	4.3 U	NA
Perfluorodecane sulfonate (PFDS)	NG/L	1.7 U	NA
Perfluorodecanoic acid (PFDA)	NG/L	1.7 U	NA
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	NG/L	4.3 U	NA
Perfluorododecanoic acid (PFDoA)	NG/L	1.7 U	NA
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	1.7 U	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	1.7 U	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	1.7 U	NA
Perfluorohexanoic acid (PFHxA)	NG/L	1.7 U	NA
Perfluorononanoic acid (PFNA)	NG/L	1.7 U	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	1.7 U	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	1.7 U	NA
Perfluorooctanoic acid (PFOA)	NG/L	1.7 U	NA
Perfluoropentanoic acid (PFPA)	NG/L	1.7 U	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	1.7 U	NA
Perfluorotridecanoic acid (PFTriA)	NG/L	1.7 U	NA
Perfluoroundecanoic acid (PFUnA)	NG/L	1.7 U	NA
6:2 Fluorotelomer sulfonate (62FTS)	NG/L	4.3 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

TABLE 3
ROSE VALLEY LANDFILL
VALIDATED FIELD QC SAMPLE RESULTS

Location ID		FIELDQC	FIELDQC
Sample ID		FB-090821	TB-090721-090821
Matrix		Water Quality	Water Quality
Depth Interval (ft)		-	-
Date Sampled		09/08/21	09/08/21
Parameter	Units	Field Blank (1-1)	Trip Blank (1-1)
Per- and Polyfluoroalkyl Substances			
8:2 Fluorotelomer sulfonate (82FTS)	NG/L	1.7 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 10/1/21

Checked By: PRF 10/4/21

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM 1's

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: MW-04 Lab Sample ID: 480-189331-1

Matrix: Water Lab File ID: N6223.D

Analysis Method: 8260C Date Collected: 09/07/2021 13:30

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 00:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	7.6		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: MW-04 Lab Sample ID: 480-189331-1

Matrix: Water Lab File ID: N6223.D

Analysis Method: 8260C Date Collected: 09/07/2021 13:30

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 00:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: MW-03 Lab Sample ID: 480-189331-2

Matrix: Water Lab File ID: N6224.D

Analysis Method: 8260C Date Collected: 09/07/2021 15:02

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 01:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	0.93	J	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	3.7		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: MW-03 Lab Sample ID: 480-189331-2

Matrix: Water Lab File ID: N6224.D

Analysis Method: 8260C Date Collected: 09/07/2021 15:02

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 01:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	95		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-04S Lab Sample ID: 480-189331-3

Matrix: Water Lab File ID: N6225.D

Analysis Method: 8260C Date Collected: 09/07/2021 16:49

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 01:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-04S Lab Sample ID: 480-189331-3

Matrix: Water Lab File ID: N6225.D

Analysis Method: 8260C Date Collected: 09/07/2021 16:49

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 01:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-01S Lab Sample ID: 480-189331-6

Matrix: Water Lab File ID: N6228.D

Analysis Method: 8260C Date Collected: 09/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 02:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-01S Lab Sample ID: 480-189331-6

Matrix: Water Lab File ID: N6228.D

Analysis Method: 8260C Date Collected: 09/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 02:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: FD-090821 Lab Sample ID: 480-189331-7

Matrix: Water Lab File ID: N6229.D

Analysis Method: 8260C Date Collected: 09/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 03:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: FD-090821 Lab Sample ID: 480-189331-7

Matrix: Water Lab File ID: N6229.D

Analysis Method: 8260C Date Collected: 09/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 03:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-01D Lab Sample ID: 480-189331-8

Matrix: Water Lab File ID: N6230.D

Analysis Method: 8260C Date Collected: 09/08/2021 11:05

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 03:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-01D Lab Sample ID: 480-189331-8

Matrix: Water Lab File ID: N6230.D

Analysis Method: 8260C Date Collected: 09/08/2021 11:05

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 03:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-03S Lab Sample ID: 480-189331-9

Matrix: Water Lab File ID: N6231.D

Analysis Method: 8260C Date Collected: 09/08/2021 12:02

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 03:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-03S Lab Sample ID: 480-189331-9

Matrix: Water Lab File ID: N6231.D

Analysis Method: 8260C Date Collected: 09/08/2021 12:02

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 03:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-02S Lab Sample ID: 480-189331-10

Matrix: Water Lab File ID: N6232.D

Analysis Method: 8260C Date Collected: 09/08/2021 13:14

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 04:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-02S Lab Sample ID: 480-189331-10

Matrix: Water Lab File ID: N6232.D

Analysis Method: 8260C Date Collected: 09/08/2021 13:14

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 04:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-02D Lab Sample ID: 480-189331-11

Matrix: Water Lab File ID: N6233.D

Analysis Method: 8260C Date Collected: 09/08/2021 14:08

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 04:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-02D Lab Sample ID: 480-189331-11

Matrix: Water Lab File ID: N6233.D

Analysis Method: 8260C Date Collected: 09/08/2021 14:08

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 04:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: TB-090721-090821 Lab Sample ID: 480-189331-13

Matrix: Water Lab File ID: N6234.D

Analysis Method: 8260C Date Collected: 09/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 04:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: TB-090721-090821 Lab Sample ID: 480-189331-13

Matrix: Water Lab File ID: N6234.D

Analysis Method: 8260C Date Collected: 09/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2021 04:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 596449 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.69	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: MW-04 Lab Sample ID: 480-189331-1

Matrix: Water Lab File ID: U33164030.D

Analysis Method: 8270D SIM ID Date Collected: 09/07/2021 13:30

Extract. Method: 3510C Date Extracted: 09/09/2021 15:09

Sample wt/vol: 1000(mL) Date Analyzed: 09/10/2021 17:01

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 595917 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.6		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	30		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: MW-03 Lab Sample ID: 480-189331-2

Matrix: Water Lab File ID: U33164031.D

Analysis Method: 8270D SIM ID Date Collected: 09/07/2021 15:02

Extract. Method: 3510C Date Extracted: 09/09/2021 15:09

Sample wt/vol: 1000(mL) Date Analyzed: 09/10/2021 17:25

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 595917 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.23		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	28		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-04S Lab Sample ID: 480-189331-3

Matrix: Water Lab File ID: U33164032.D

Analysis Method: 8270D SIM ID Date Collected: 09/07/2021 16:49

Extract. Method: 3510C Date Extracted: 09/09/2021 15:09

Sample wt/vol: 1000(mL) Date Analyzed: 09/10/2021 17:48

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 595917 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.51		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: MW-16 Lab Sample ID: 480-189331-5

Matrix: Water Lab File ID: U33164033.D

Analysis Method: 8270D SIM ID Date Collected: 09/07/2021 18:31

Extract. Method: 3510C Date Extracted: 09/09/2021 15:09

Sample wt/vol: 1000(mL) Date Analyzed: 09/10/2021 18:12

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 595917 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.42		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	34		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-01S Lab Sample ID: 480-189331-6

Matrix: Water Lab File ID: U33164034.D

Analysis Method: 8270D SIM ID Date Collected: 09/08/2021 09:45

Extract. Method: 3510C Date Extracted: 09/09/2021 15:09

Sample wt/vol: 1000(mL) Date Analyzed: 09/10/2021 18:35

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 595917 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND	UJ	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	38		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: FD-090821 Lab Sample ID: 480-189331-7

Matrix: Water Lab File ID: U33164035.D

Analysis Method: 8270D SIM ID Date Collected: 09/08/2021 00:00

Extract. Method: 3510C Date Extracted: 09/09/2021 15:09

Sample wt/vol: 1000(mL) Date Analyzed: 09/10/2021 18:59

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 595917 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.4	J	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	36		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-03S Lab Sample ID: 480-189331-9

Matrix: Water Lab File ID: U33164028.D

Analysis Method: 8270D SIM ID Date Collected: 09/08/2021 12:02

Extract. Method: 3510C Date Extracted: 09/09/2021 15:09

Sample wt/vol: 1000(mL) Date Analyzed: 09/10/2021 16:14

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 595917 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-02S Lab Sample ID: 480-189331-10

Matrix: Water Lab File ID: U33164036.D

Analysis Method: 8270D SIM ID Date Collected: 09/08/2021 13:14

Extract. Method: 3510C Date Extracted: 09/09/2021 15:09

Sample wt/vol: 1000(mL) Date Analyzed: 09/10/2021 19:22

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 595917 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	31		15-110

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-189331-1

SDG No.:

Client Sample ID: MW-04 Lab Sample ID: 480-189331-1

Matrix: Water Lab File ID: 2021.09.16_A9_PFC+_C_021.d

Analysis Method: 537 (modified) Date Collected: 09/07/2021 13:30

Extraction Method: 3535 Date Extracted: 09/13/2021 19:32

Sample wt/vol: 276.2(mL) Date Analyzed: 09/16/2021 21:28

Con. Extract Vol.: 10.0(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 525700 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.5	2.2
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.8		1.8	0.44
307-24-4	Perfluorohexanoic acid (PFHxA)	2.6	NJ	1.8	0.52
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.3		1.8	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	7.7		1.8	0.77
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.28
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.0
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.50
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.2
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.66
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.69	J	1.8	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.2	J	1.8	0.52
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.49
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.89
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	1.1
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	1.2
27619-97-2	6:2 FTS	ND		4.5	2.3
39108-34-4	8:2 FTS	ND		1.8	0.42

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-189331-1

SDG No.:

Client Sample ID: MW-03 Lab Sample ID: 480-189331-2

Matrix: Water Lab File ID: 2021.09.16_A9_PFC+_C_022.d

Analysis Method: 537 (modified) Date Collected: 09/07/2021 15:02

Extraction Method: 3535 Date Extracted: 09/13/2021 19:32

Sample wt/vol: 279.9(mL) Date Analyzed: 09/16/2021 21:38

Con. Extract Vol.: 10.0(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 525700 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	3.2	J	4.5	2.1
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.6		1.8	0.44
307-24-4	Perfluorohexanoic acid (PFHxA)	5.9		1.8	0.52
375-85-9	Perfluoroheptanoic acid (PFHpA)	7.3		1.8	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	18		1.8	0.76
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.28
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.98
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.2
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.65
375-73-5	Perfluorobutanesulfonic acid (PFBS)	6.1		1.8	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	13		1.8	0.51
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.48
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.88
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	1.1
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	1.2
27619-97-2	6:2 FTS	ND		4.5	2.2
39108-34-4	8:2 FTS	ND		1.8	0.41

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-04S Lab Sample ID: 480-189331-3

Matrix: Water Lab File ID: 2021.09.16_A9_PFC+_C_023.d

Analysis Method: 537 (modified) Date Collected: 09/07/2021 16:49

Extraction Method: 3535 Date Extracted: 09/13/2021 19:32

Sample wt/vol: 258.7(mL) Date Analyzed: 09/16/2021 21:47

Con. Extract Vol.: 10.0(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 525700 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.8	2.3
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.52	J	1.9	0.47
307-24-4	Perfluorohexanoic acid (PFHxA)	0.76	J	1.9	0.56
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.63	J	1.9	0.24
335-67-1	Perfluorooctanoic acid (PFOA)	1.6	J	1.9	0.82
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.9	0.26
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.53
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.71
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.55
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.52
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.31
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.95
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	1.2
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8	1.3
27619-97-2	6:2 FTS	ND		4.8	2.4
39108-34-4	8:2 FTS	ND		1.9	0.44

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-189331-1

SDG No.:

Client Sample ID: MW-16 Lab Sample ID: 480-189331-5

Matrix: Water Lab File ID: 2021.09.16_A9_PFC+_C_024.d

Analysis Method: 537 (modified) Date Collected: 09/07/2021 18:31

Extraction Method: 3535 Date Extracted: 09/13/2021 19:32

Sample wt/vol: 269.8(mL) Date Analyzed: 09/16/2021 21:57

Con. Extract Vol.: 10.0(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 525700 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.6	2.2
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.9	0.45
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.9	0.54
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.49	J	1.9	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	1.3	J	1.9	0.79
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.9	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.51
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.68
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.40	J	1.9	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.53
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.50
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.91
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	1.1
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	1.2
27619-97-2	6:2 FTS	ND		4.6	2.3
39108-34-4	8:2 FTS	ND		1.9	0.43

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-01S Lab Sample ID: 480-189331-6

Matrix: Water Lab File ID: 2021.09.16_A9_PFC+_C_025.d

Analysis Method: 537 (modified) Date Collected: 09/08/2021 09:45

Extraction Method: 3535 Date Extracted: 09/13/2021 19:32

Sample wt/vol: 291.4(mL) Date Analyzed: 09/16/2021 22:06

Con. Extract Vol.: 10.0(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 525700 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.3	2.1
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.7	0.42
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.7	0.50
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.49	J	1.7	0.21
335-67-1	Perfluorooctanoic acid (PFOA)	3.3		1.7	0.73
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.94
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.47
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.63
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	J	1.7	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.7	0.49
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.46
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.84
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	1.0
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	1.1
27619-97-2	6:2 FTS	ND		4.3	2.1
39108-34-4	8:2 FTS	ND		1.7	0.39

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

FD OF SW-01S

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-189331-1

SDG No.:

Client Sample ID: FD-090821 Lab Sample ID: 480-189331-7

Matrix: Water Lab File ID: 2021.09.16_A9_PFC+_C_026.d

Analysis Method: 537 (modified) Date Collected: 09/08/2021 00:00

Extraction Method: 3535 Date Extracted: 09/13/2021 19:32

Sample wt/vol: 276.9(mL) Date Analyzed: 09/16/2021 22:16

Con. Extract Vol.: 10.0(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 525700 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.5	2.2
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	0.44
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	0.52
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.36	J	1.8	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	3.5		1.8	0.77
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.28
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.99
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.50
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.2
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.66
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.24	J	1.8	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.6	J	1.8	0.51
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.49
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.88
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	1.1
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	1.2
27619-97-2	6:2 FTS	ND		4.5	2.3
39108-34-4	8:2 FTS	ND		1.8	0.42

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-03S Lab Sample ID: 480-189331-9

Matrix: Water Lab File ID: 2021.09.16_A9_PFC+_C_029.d

Analysis Method: 537 (modified) Date Collected: 09/08/2021 12:02

Extraction Method: 3535 Date Extracted: 09/13/2021 19:32

Sample wt/vol: 267.7(mL) Date Analyzed: 09/16/2021 22:44

Con. Extract Vol.: 10.0(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 525700 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.7	2.2
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.9	0.46
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.9	0.54
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	1.0	J	1.9	0.79
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.9	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.51
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.68
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.58	J	1.9	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.53
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.50
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.92
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	1.1
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	1.2
27619-97-2	6:2 FTS	ND		4.7	2.3
39108-34-4	8:2 FTS	ND		1.9	0.43

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-189331-1

SDG No.:

Client Sample ID: SW-02S Lab Sample ID: 480-189331-10

Matrix: Water Lab File ID: 2021.09.16_A9_PFC+_C_032.d

Analysis Method: 537 (modified) Date Collected: 09/08/2021 13:14

Extraction Method: 3535 Date Extracted: 09/13/2021 19:32

Sample wt/vol: 269.3(mL) Date Analyzed: 09/16/2021 23:12

Con. Extract Vol.: 10.0(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 525700 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.6	2.2
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.9	0.45
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.9	0.54
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.9	0.79
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.9	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.0
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.51
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.9	1.2
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.68
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.19
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.53
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.50
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.30
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.91
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	1.1
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	1.2
27619-97-2	6:2 FTS	ND		4.6	2.3
39108-34-4	8:2 FTS	ND		1.9	0.43

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-189331-1

SDG No.:

Client Sample ID: FB-090821 Lab Sample ID: 480-189331-12

Matrix: Water Lab File ID: 2021.09.14_A9_PFC+_A_051.d

Analysis Method: 537 (modified) Date Collected: 09/08/2021 12:20

Extraction Method: 3535 Date Extracted: 09/13/2021 19:32

Sample wt/vol: 289.5(mL) Date Analyzed: 09/15/2021 00:43

Con. Extract Vol.: 10.0(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Acquity ID: 2.1(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 525274 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.3	2.1
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.7	0.42
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.7	0.50
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.7	0.73
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.95
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.47
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.63
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.49
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.47
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.85
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	1.0
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	1.1
27619-97-2	6:2 FTS	ND		4.3	2.2
39108-34-4	8:2 FTS	ND		1.7	0.40

ATTACHMENT B

SUPPORT DOCUMENTATION

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: R. MURPHY / C. DUSEL	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-164390-36082.1
Client Contact: George Kisluk	Phone: 716-903-1346	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: NY	Page: Page 1 of 2
Company: AECOM	PWSID:			Job #:
Address: One John James Audubon Parkway Suite 210	Due Date Requested:			
City: Amherst	TAT Requested (days): STANDARD			
State, Zip: NY, 14228	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Callout 136857			
Email: george.kisluk@aecom.com	WO #:			
Project Name: Rose Valley Landfill #622017	Project #: 48019943			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	PFC_IDA - PFAS, Standard List (21) - BURL	8270D_SIM_MS_ID - SIM List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N		
MW-04	9/7/21	1330	G	W		N	3	2	2	7	
MW-03	9/7/21	1502	G	W		N	3	2	2	7	
SW-04S	9/7/21	1649	G	W		N	3	2	2	7	
SW-04D	9/7/21	1750	G	W		N	3			3	
MW-16	9/7/21	1831	G	W		N	3	2	2	7	
SW-01S	9/8/21	0945	G	W		N	3	2	2	7	
FD-090821	9/8/21	—	G	W		N	3	2	2	7	
SW-01D	9/8/21	1105	G	W		N	3	[illegible]		3	
SW-03S	9/8/21	1202	G	W		N	3	2	2	7	
SW-03S MS	9/8/21	1202	G	W		Y	3	2	2	7	MATRIX SPIKE
SW-03S MSD	9/8/21	1202	G	W		Y	3	2	2	7	MATRIX SPIKE DUPLICATE

480-189331 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: DROP OFF

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Robert J Murphy	9/9/21 1040	AECOM	[signature]	9/9/21 1040	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.0 2.9 ICE

Ver: 06/08/2021

09/21/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: R. MURPHY / C. DUSEK	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-164390-36082.2
Client Contact: George Kisluk	Phone: 716-903-1346	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: NY	Page: Page 2 of 2
Company: AECOM	PWSID:			Job #:
Address: One John James Audubon Parkway Suite 210	Due Date Requested:			
City: Amherst	TAT Requested (days): STANDARD			
State, Zip: NY, 14228	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Callout 136857			
Email: george.kisluk@aecom.com	WO #:			
Project Name: Rose Valley Landfill #622017	Project #: 48019943			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	PFC_IDA - PFAS, Standard List (21) - BURL	8270D_SIM_MS_ID - SIM List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N		
SW-025	9/8/21	1314	G	W			3	2	2	7	
SW-020	9/8/21	1408	G	W			3			3	
FB-090821	9/8/21	1220	G	W				2		2	
TB-090721 + 090821	9/8/21	—	G	W			2			2	TRIP BLANK

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: DROP OFF

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	9/9/21 1040	AECOM	PGI		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

09/21/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-66426.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Steve.Hartmann@Eurofinset.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-189331-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/22/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Rose Valley Landfill #622017	Project #: 48019943			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_PFC PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-04 (480-189331-1)	9/7/21	13:30 Eastern		Water			X	2	
MW-03 (480-189331-2)	9/7/21	15:02 Eastern		Water			X	2	
SW-04S (480-189331-3)	9/7/21	16:49 Eastern		Water			X	2	
MW-16 (480-189331-5)	9/7/21	18:31 Eastern		Water			X	2	
SW-01S (480-189331-6)	9/8/21	09:45 Eastern		Water			X	2	
FD-090821 (480-189331-7)	9/8/21	Eastern		Water			X	2	
SW-03S (480-189331-9)	9/8/21	12:02 Eastern		Water			X	2	
SW-03S (480-189331-9MS)	9/8/21	12:02 Eastern	MS	Water			X	2	
SW-03S (480-189331-9MSD)	9/8/21	12:02 Eastern	MSD	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Matthew Nikolb	9/10/21 1700	TA		9/11/21 9:10	TALBUF
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1512614	Cooler Temperature(s) °C and Other Remarks: 1.5c

Δ= Discoloration. LB 9/11/21

Ver: 06/08/2021

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09/21/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax. 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hartmann, Steve	Carrier Tracking No(s):	COC No: 480-66426.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Steve.Hartmann@Eurofinset.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-189331-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/22/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Rose Valley Landfill #622017	Project #: 48019943			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_PFC PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SW-02S (480-189331-10)	9/8/21	13:14 Eastern		Water			X	2	
FB-090821 (480-189331-12)	9/8/21	12:20 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	PGI				9/11/21 9:10	ETBUF
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1512616	Cooler Temperature(s) °C and Other Remarks: 1.5c

Ver: 06/08/2021

09/21/2021

Job Narrative
480-189331-1

Comments
No additional comments.

Receipt
The samples were received on 9/9/2021 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9º C and 3.0º C.

Receipt Exceptions

The following samples have discoloration as seen in the NCM email photo attachment: SW-04S (480-189331-3) and MW-16 (480-189331-5).

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D SIM ID: The 1,4-Dioxane result reported for sample FD-090821 (480-189331-7) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

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

LCMS
Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte: MW-04 (480-189331-1).

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

Organic Prep
Method 3535: The following samples were observed to be light yellow prior to extraction: MW-04 (480-189331-1), MW-03 (480-189331-2), SW-04S (480-189331-3) and MW-16 (480-189331-5).

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

APPENDIX D
MONITORING WELL INSPECTION FORMS

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 60641010

DATE: 9/8/2021

TIME: 15:00

WELL ID: MW-02

EXTERIOR INSPECTION

PROTECTIVE CASING: Bent. Appears to have been hit with vehicle.

LOCK/HASP: None

HINGE/ LID: None

WELL PAD: Damaged

BOLLARDS: None

LABEL/ID: None

OTHER: Damage to well casing.

INTERIOR INSPECTION

WELL RISER: OK

ANULAR SPACE: OK

WELL CAP: None

WATER LEVEL: not measured

DEPTH TO BOTTOM: not measured HARD/SOFT BOTTOM

OTHER: Blockage at 2 feet below to or riser.

Suspect beverage containers (cans or bottles) were dropped into inner casing.

COMMENTS: Well is in similar condition as per October 2019 inspection.

SIGNATURE INSPECTOR: Robert J Murphy SIGNATURE APPROVAL:

LOCK KEY # no lock

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 60641010
DATE: 9/7/2021
TIME: 14:37
WELL ID: MW-03

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, stick-up
LOCK/HASP: OK
HINGE/ LID: OK
WELL PAD: OK
BOLLARDS: None
LABEL/ID: None
OTHER:

INTERIOR INSPECTION

WELL RISER: OK
ANULAR SPACE: OK
WELL CAP: OK
WATER LEVEL: 2.68
DEPTH TO BOTTOM: 17.00 HARD/SOFT BOTTOM Hard
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Robert J Murphy SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 60641010

DATE: 9/7/2021

TIME: 12:55

WELL ID: MW-04

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, stick-up

LOCK/HASP: OK

HINGE/ LID: OK

WELL PAD: OK

BOLLARDS: None

LABEL/ID: OK

OTHER:

INTERIOR INSPECTION

WELL RISER: OK

ANULAR SPACE: OK

WELL CAP: OK

WATER LEVEL: 2.39

DEPTH TO BOTTOM: 17.51 HARD/SOFT BOTTOM Hard

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Robert J Murphy SIGNATURE APPROVAL:

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 60641010
DATE: 9/7/2021
TIME: 18:11
WELL ID: MW-16

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, stick-up
LOCK/HASP: OK
HINGE/ LID: OK
WELL PAD: OK
BOLLARDS: None
LABEL/ID: OK
OTHER:

INTERIOR INSPECTION

WELL RISER: OK
ANULAR SPACE: OK
WELL CAP: OK
WATER LEVEL: 3.20
DEPTH TO BOTTOM: 11.59 HARD/SOFT BOTTOM Hard
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Robert J Murphy SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 60641010
DATE: 9/8/2021
TIME: 9:15
WELL ID: SW-01S

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, stick-up
LOCK/HASP: OK
HINGE/ LID: OK
WELL PAD: OK
BOLLARDS: None
LABEL/ID: OK
OTHER:

INTERIOR INSPECTION

WELL RISER: OK
ANULAR SPACE: OK
WELL CAP: OK
WATER LEVEL: 20.21
DEPTH TO BOTTOM: 28.42 HARD/SOFT BOTTOM Hard
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Robert J Murphy SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 60641010
DATE: 9/8/2021
TIME: 10:30
WELL ID: SW-01D

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, stick-up
LOCK/HASP: N/A
HINGE/ LID: OK
WELL PAD: OK
BOLLARDS: None
LABEL/ID: OK
OTHER:

INTERIOR INSPECTION

WELL RISER: OK
ANULAR SPACE: OK
WELL CAP: OK
WATER LEVEL: 67.80
DEPTH TO BOTTOM: 83.83 HARD/SOFT BOTTOM Hard
OTHER:

COMMENTS: No Lock on well, cap is conventional residential well cap, bolted on and secure.

SIGNATURE INSPECTOR: Robert J Murphy SIGNATURE APPROVAL:
LOCK KEY #

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 60641010
DATE: 9/8/2021
TIME: 12:39
WELL ID: SW-02S

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, stick-up
LOCK/HASP: OK
HINGE/ LID: OK
WELL PAD: OK
BOLLARDS: None
LABEL/ID: None
OTHER:

INTERIOR INSPECTION

WELL RISER: OK
ANULAR SPACE: OK
WELL CAP: OK
WATER LEVEL: 13.41
DEPTH TO BOTTOM: 20.03 HARD/SOFT BOTTOM Hard
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Robert J Murphy SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 60641010
DATE: 9/8/2021
TIME: 13:43
WELL ID: SW-02D

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, stick-up
LOCK/HASP: OK
HINGE/ LID: OK
WELL PAD: OK
BOLLARDS: None
LABEL/ID: OK
OTHER:

INTERIOR INSPECTION

WELL RISER: OK
ANULAR SPACE: OK
WELL CAP: OK
WATER LEVEL: 70.82
DEPTH TO BOTTOM: 79.12 HARD/SOFT BOTTOM Hard
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Robert J Murphy SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 60641010

DATE: 9/8/2021

TIME: 11:37

WELL ID: SW-03S

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, flush mount

LOCK/HASP: No Lock

HINGE/ LID: OK

WELL PAD: OK

BOLLARDS: None

LABEL/ID: OK

OTHER: Water in well box. Purged water from well box prior to removing well plug.

INTERIOR INSPECTION

WELL RISER: OK

ANULAR SPACE: OK

WELL CAP: OK

WATER LEVEL: 13.74

DEPTH TO BOTTOM: 18.82 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Robert J Murphy SIGNATURE APPROVAL:

LOCK KEY #

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 60641010

DATE: 9/7/2021

TIME: 16:19

WELL ID: SW-04S

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, flush mount

LOCK/HASP: OK

HINGE/ LID: OK

WELL PAD: OK

BOLLARDS: None

LABEL/ID: OK

OTHER: Water in well box. Purged water from well box prior to removing well plug.

INTERIOR INSPECTION

WELL RISER: OK

ANULAR SPACE: OK

WELL CAP: OK

WATER LEVEL: 2.95

DEPTH TO BOTTOM: 8.07 HARD/SOFT BOTTOM Hard

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Robert J Murphy SIGNATURE APPROVAL:

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 60641010

DATE: 9/7/2021

TIME: 17:20

WELL ID: SW-04D

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, flush mount

LOCK/HASP: OK

HINGE/ LID: OK

WELL PAD: OK

BOLLARDS: None

LABEL/ID: OK

OTHER: Water in well box. Purged water from well box prior to removing well plug.

INTERIOR INSPECTION

WELL RISER: OK

ANULAR SPACE: OK

WELL CAP: OK

WATER LEVEL: 7.0 psi = 16.15 feet above measuring point.

DEPTH TO BOTTOM: 84.42 HARD/SOFT BOTTOM Hard

OTHER:

COMMENTS: Artesian well.

SIGNATURE INSPECTOR: Robert J Murphy SIGNATURE APPROVAL:

LOCK KEY # 2246

APPENDIX E
LANDFILL INSPECTION FORMS

ROSE VALLEY LANDFILL SITE – POST CLOSURE

NYSDEC SITE NO. 6-22-017

INSPECTION LOG SHEET

Date: 5/4/21 **Inspector:** Chuck Dysel

Weather: Light rain **Signature:** C Dysel

Temperature: 55-60°F **Company:** AECOM

Type: Winter Spring Summer Fall
(Circle One)

Item Inspected	Maintenance Needed (Y/N)	Comments	Inspector's Initials
Drainage Channel	Y	Need to remove vegetation and spray w/ Round up	CD.
Groundwater Monitoring Wells	N	See M. well inspection Forms	
Perimeter Access Road	Y	ON Landfill rilling is occurring at base of LF	
Vegetative Cover	Y	Mowing should be conducted 2 xs/yr.	
Repaired Vegetation	N	None	
Final Cover Layers (Cap Settlement, etc.)	N	Good Shape	
Gas Vents	Y	two vents shot will require repair	
Fence and Gates	Y	Need to install Front crash gate	
Other Items: (Specify)	Y	access Road from site entrance to LF gate	
Other Items: (Specify)		has been washed out erosion occuring	

TABLE 2

LANDFILL CAP AND SITE STORMWATER MANAGEMENT SYSTEM

MINIMUM CHECKLIST FOR ROUTINE INSPECTIONS

Component	Item	Number/Location/ Area Checked	Condition
Cap Grading	Obvious subsidences, depressions, or cracks None Evidence of ponded water NO Stressed vegetation None Signs of erosion occurring at a localized change in grade NO Evidence of Breaching of toe No Animal burrows None Other:	entire Cap was inspected	Good
Cap Vegetation and Repaired Vegetation	Areas of sparse, dead, or missing vegetation None Small rill erosion NO Animal burrows NO Other:	entire cap	Cap needs to be brush hogged/mowed
Drainage Channel	Missing or displaced stones None Woody vegetation growing in the stones or grass cover	all channels	Need to remove woody veg. in Channels
GW Monitoring Wells	Condition of lock and cover Signs of damage to casing or collar Condition of weep hole from casing Evidence of tampering Other:	M. wells will be inspected during	Upcoming Gnd H2O sampling event. ~ Sept. 2021

ideal → mow 2x/yr will result in better job.

Fences, Gates and Perimeter Access Road	Cutting or bending of fence fabric Missing locks, hinges, etc. from gates Yes Motorbike or snowmobile tracks Yes Shotgun shell casings Beer cans or other trash Yes Other signs of access or vandalism Yes Condition of access road surface Other:	Front gate was open when arrive @ site -	Front gate requires repair and new Coors gate -
Gas Vent	Integrity of pipes and joints good Plumbness and differential settlement none Obstruction of vents by bird, insect or animal nests no Corrosion or deterioration of pipes or supports no Localized browning of vegetation no Other:	2 vents shot by Vandals	Will need to repair PVC pipe.

APPENDIX F
PHOTOGRAPHIC LOG

Photo 1 – Looking Northeast from landfill access road– Landfill cap prior to mowing.

Photo 2 –. Typical groundwater monitoring well equipment setup (SW-01S).

Photo 3 – Looking North – Landfill cap after mowing with brush hog.

Photo 4 – Tractor used to Brush Hog along drainage channel.

Photo 5 – Looking Southwest – Rough grading site access road with existing crusher run.

Photo 6 – Looking West – Site access road rough-graded to divert surface water away from site access road.

Photo 7 – Looking Northeast– Newly installed crash gate located at site entrance. The crash gate is outside of the existing double swing gate.

Photo 8 – Looking Southwest– Entrance gate area being regraded to facilitate gate operation.

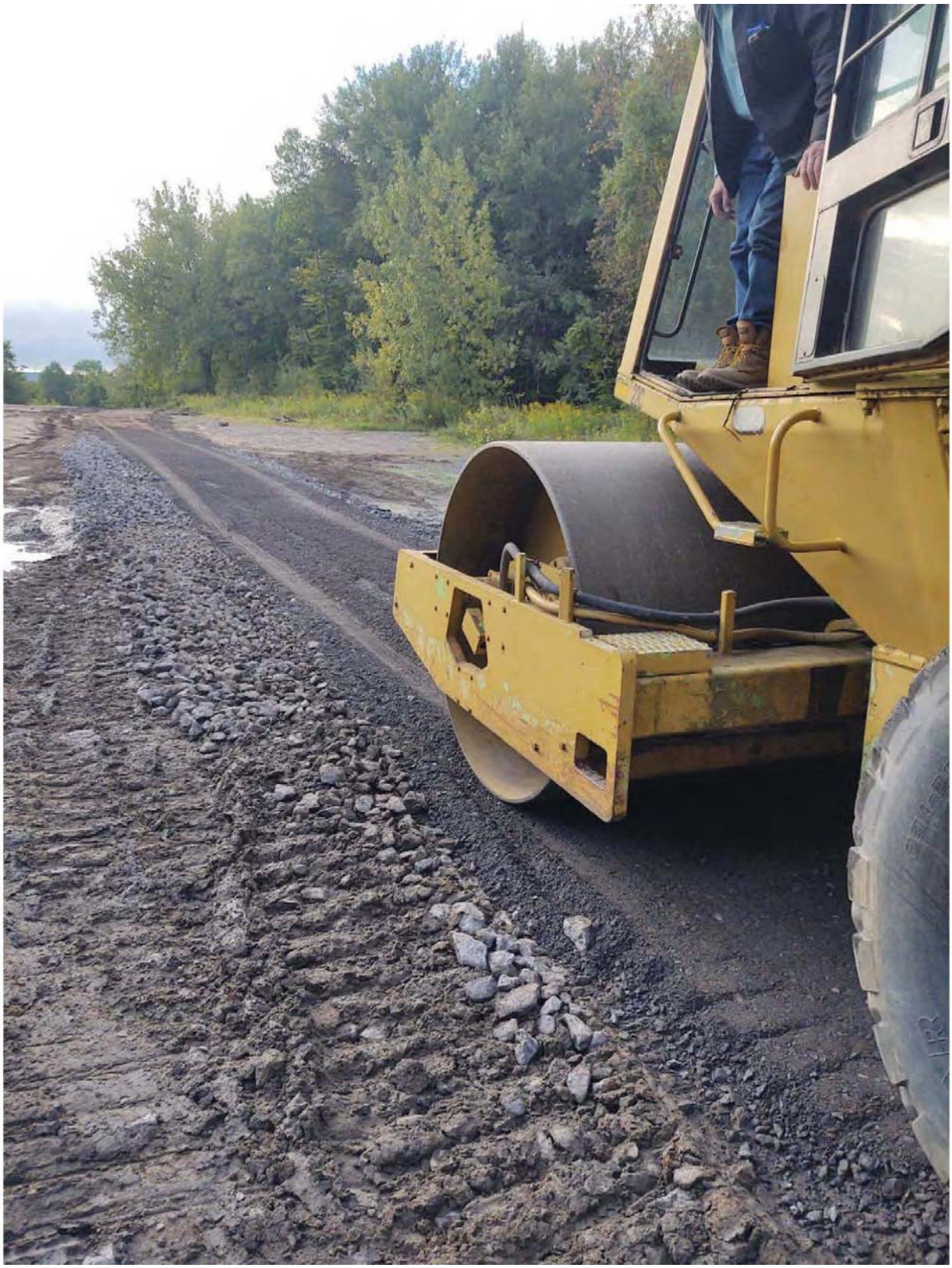

Photo 9 – Looking East – Smooth drum roller used to compact crusher run on top of No. 4 stone.

Photo 10 – Looking Southwest – Access road following repairs. Also shown (red lines) are surface water diversion swales.

Photo 10 –Damaged methane gas vent prior to repair (bullet hole).

Photo 11 and 12 – Two repaired methane gas vents.

Photo 13 – Looking Southwest – Tandem dump truck placing crusher run on the landfill road to fill eroded portion of road.

Photo 14 – Looking Southwest – Grading of material placed as shown in Photo 13.

Photo 15 – Looking East – Newly-created ATV access point at the northern end of the existing front gate fence area.

Photo 16 – Looking Northwest – After regrading and draining ponded surface water, No. 4 stone placed to create stable subbase in wet unstable portion of site access road.

Photo 17 – Trees in the drainage channel prior to being removed by AECOM.

Photo 18 – Looking East – Wet, unstable portion of site access road prior to regrading for improved surface water drainage, and placement of No. 4 stone as shown in Photo 16.

Photo 19 – Looking West – Tires and miscellaneous debris dumped in swale between Site and Military Rd.