SITE MANAGEMENT

ANNUAL REPORT
2013 CALENDAR YEAR

WORK ASSIGNMENT D007622-07

ROSE VALLEY LANDFILL **SITE NO. 622017**
RUSSIA (T) **HERKIMER (C), NY**

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Joe Martens, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION

URS Corporation
77 Goodell Street
Buffalo, New York 14203

March 2014

ROSE VALLEY LANDFILL
2013 ANNUAL REPORT
SITE MANAGEMENT

SITE # 622017

TOWN OF RUSSIA, HERKIMER COUNTY, NEW YORK

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77 GOODELL STREET

BUFFALO, NEW YORK 14203

MARCH 2014

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1.0 INTRODUCTION

1.1 General

This Site Management Annual Report for 2013 has been prepared under New York State Department of Environmental Conservation (NYSDEC) URS Work Assignment No. D007622-07 for the Rose Valley Landfill site (Figure 1). The purpose of this Annual Report is to provide a record of the long-term maintenance of the cap, wells and stormwater management features associated with remediation at the Rose Valley Landfill and to monitor the effectiveness of natural attenuation. This report is the fourth annual report as called for by Section 6.3 of the Conceptual Operation, Monitoring and Maintenance Plan (COMMP) (URS, November 2006). The COMMP was modified based upon comments from the NYSDEC. The modified plan, re-titled as the Site Management Plan (SMP) was submitted by URS to the Department, reviewed, and approved in September 2010.

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 recommendation involved:

- On-site disposal of contaminated surface soils from the older septic disposal pit into the on-site landfill;
- Installing a new cap on the landfill to reduce infiltration through the wastes;
- Installing a new residential well in a deeper, clean aquifer for the impacted residence; and
- Long-term monitoring of the leachate and contaminated groundwater plume by monitoring natural attenuation.

A description of the project site can be found in Section 2.0.

2.0 SITE DESCRIPTION

The Rose Valley Landfill is 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, even 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 known 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; it is being monitored by the Herkimer County Department of Health.

The remedial design of the landfill closure was completed 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

Monitoring activities were performed during October 2013 in accordance with the SMP (URS, September 2010). Site monitoring consisted of the collection of groundwater samples from ten (10) wells and surface water samples from four (4) locations, shown on Figure 2. Seven of the groundwater wells are "Sentry Wells" (i.e., SW-01S, SW-01D, SW-02S, SW-02D SW-03S, SW-04S and SW-04D) and three are monitoring wells (i.e., MW-03, MW-04 and MW-16). 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. Surface water sample locations are:

- at the toe of the embankment (SWTR-1T); at the entrance of the downgradient stream (SWTR-1E);
- at the North Detention Pond (NDP); and
- at the South Detention Pond (SDP).

A copy of the field notes from the 2013 monitoring activities is provided in Appendix A.

3.1 Groundwater Hydraulic Monitoring

On October 15 and 16, 2013, groundwater level measurements were obtained from fourteen wells (i.e., seven Sentry Wells and seven monitoring wells). The water level measurements are provided in Table 1. Four of the Sentry Wells (i.e., SW-01S, SW-02S, SW-03S and SW-04S) and the three monitoring wells (MW-03, MW-04, and MW-16) are shallow wells. Three of the Sentry Wells (i.e., SW-01D, SW-02D and SW-04D) and four of the monitoring wells (MW-02, MW-14, MW-15 and MW-17) are deep wells. 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. The reading was 8.4 pounds per square inch (psi), which calculates to a column height of 19.38 feet above the measuring point. In addition to the list of wells in the SMP (URS, September 2010), monitoring wells MW-14, MW-15 and MW-17 were added to the hydraulic monitoring list in 2011 to aid in the development of the deep potentiometric surface map due to the artesian condition found in well SW-04D.

A potentiometric surface map based on the water level measurements from the shallow wells, using a 10-foot contour interval, 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. Approaching Bromley and Rose Valley Roads, the shallow groundwater flow is to the west-southwest. The deep groundwater flow is in the same general direction, with the west-southwest direction starting closer to the western end of the landfill cap.

3.2 Groundwater Sampling

On October 15 and 16, 2013, URS collected groundwater samples from 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 two-liters per minute or less and the purge rate was adjusted to minimize draw down. During the purging of the well, 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 a purge log. Samples were collected after the water quality parameters stabilized. Well purge logs are provided in Appendix B and a Photographic Log is provided in Appendix C. Purge water was disposed of on the ground up-gradient of the well locations, as per the direction of the Department.

The samples were transported under chain of custody (COC) to the NYSDEC's callout laboratory, Test America Laboratories, Inc. (Test America), 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) plus tentatively identified compounds (TICs) following United States Environmental Protection Agency (USEPA) SW846 Method 8260B.

3.2.1 Groundwater Results

NYSDEC Analytical Services Protocol (ASP) Category B data deliverables was received by URS. 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, Form I's and Form Ie's (TICs) 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 D.

A summary of the detected compounds in the groundwater samples are provided in Table 2. Results exceeding TOGS 1.1.1 Class GA groundwater standards or guidance values are indicated with a circle. The locations of detected compounds that have exceeded their respective criteria are shown on Figure 5. Only two VOCs [i.e., 1,1-dichloroethane (11 µg/L, MW-04) and cis-1,2-dichloroethene (6.6 µg/L, MW-03)] were detected above TOGS 1.1.1 Class GA limits in the 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 well MW-16. A historical summary of detected results in groundwater is provided in Table 3 and shown on Figure 5. Results from the 2013 monitoring event are consistent with the 2010, 2011 and 2012 monitoring events.

3.3 Surface Water/Detention Pond Sampling

On October 16, 2013, URS collected surface water samples from locations SWTR-1T and SWTR-1E, the North Detention Pond (NDP) and the South Detention Pond (SDP), plus QC samples. At each location the surface water sample was collected by immersing pre-cleaned, laboratory grade sample bottles as close to the middle of the water body as possible without disturbing the sediment. During the collection of the surface water samples, water quality parameters (i.e., pH, specific conductivity, temperature, dissolved oxygen, turbidity) were measured using a Horiba U-52-2 Multi-parameter instrument. The water quality parameters were documented on a sample log, which may be found in Appendix B. Photographs of surface water sampling are provided in Appendix C.

All surface water samples were transported under COC to Test America. The samples were analyzed for TCL VOCs plus TICs following USEPA SW846 Method 8260B.

3.3.1 Surface Water/Detention Pond Results

One VOC (i.e., benzene) was detected in the 2013 surface water samples, although benzene did not exceeded TOGS No. 1.1.1 Class C standards or guidance values for surface water. A summary of detected results in the 2013 surface water samples is provided in Table 4. A historical summary of detected results in groundwater is provided in Table 5 and shown on

Figure 6. Table 6 lists criteria that required calculation, per TOGS No. 1.1.1 for Class C surface waters. VOCs results from the 2013 monitoring event are consistent with the 2010, 2011 and 2012 monitoring events.

4.0 SITE MAINTENANCE

4.1 Monitoring Well Inspections

During the 2013 groundwater monitoring event, a well inspection was performed. All wells appeared to be in good condition. The monitoring well inspection logs may be found in Appendix E.

4.2 Landfill Inspection

A landfill inspection was performed by URS accompanied by NYSDEC personnel in July 2013 and during the October 2013 groundwater monitoring event. A copy of the completed landfill inspection form from the October 2013 site visit can be found in Appendix F. The July 2013 site inspection is documented in the inspection report which may be found in Appendix G. During the October inspection, the landfill cap components appeared to be in good condition. The landfill fence was also inspected and was found to be in good condition.

In the areas surrounding the landfill cap, the following was observed during the October inspection:

- Multiple erosion ruts, approximately 12 inches deep and up to 12-inches wide were present in the main gravel access road from Rose Valley Road all the way to the landfill (see Photos 1, 26, and 27 in Appendix C);
- Multiple erosion rills, approximately 10 inches deep, were discovered along the access road on top of the landfill, and also along the access road west of the landfill (see Photos 5 and 6 in Appendix C);
- As noted initially during the August 9, 2012 site inspection and observed during the July and October inspections, the diversion channel around the north side of the landfill is head cutting. There is now an approximately 6-foot high vertical discontinuity in the channel bottom at about the mid-point of the landfill. There appears to be no significant change to the extent of the head cutting since the August 9, 2012 site inspection.
- It appears that the head cutting has been stopped by the geotextile that underlay the downstream end of the channel armor, of which a length of about 10 feet 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. The situation can be monitored by noting the tree in the center of Photo 11 of the Periodic Inspection Report (July 10, 2013) in Appendix G and in Photos 9, 10, and 11 in Appendix C.

- One of the jersey barriers blocking access to the landfill along Military Road was moved further down the road, presumably by recreational users, allowing access to the landfill for all terrain vehicles (ATV) riding and continued illegal dumping of municipal solid waste and construction and demolition debris.

Trash and asphalt have been illegally dumped near the jersey barriers along Military Road. Several tires have also been illegally dumped in the ravine north of the landfill along Military Road. In July 2013, it was noticed that trespassers had removed the double swing gate panels from the gate located at the southwest corner of the landfill to gain access for ATV riding. One gate panel was found lying in the grass next to the gate opening. The second gate panel was found lying up against the northern perimeter fence. On July 22, 2013, the gates were replaced and secured by URS subcontractor, Brady Fence Co. Inc., prior to the October 2013 site inspection.

Photographs taken during the October 2013 landfill inspection can be found in Appendix C. The Periodic Inspection Report (July 10, 2013) can be found in Appendix G.

4.3 Maintenance Performed

The following subsections describe site maintenance activities.

4.3.1 Monitoring Well Maintenance

Monitoring well locks were sprayed with WD-40 to prevent ceasing. No other routine maintenance was performed at the time this report was prepared.

4.3.2 Routine Maintenance

The landfill cap was mowed in July 2013 by Marcy Excavation Services, LLC., (MES) a subcontractor to the NYSDEC call-out contractor Environmental Products & Services of

Vermont (EPS). The mowing activities were documented on the construction report which may be found in Appendix G. The NYSDEC also cut brush/small trees near the monitoring wells and removed some growth from the swales. No other routine maintenance was performed at the time this report was prepared.

4.3.3 Intermittent Maintenance

The double swing gate panels located at the southwestern corner of the landfill were replaced and secured by Brady Fence Co. Inc., prior to the October 2013 site inspection. No other intermittent maintenance was performed at the time this report was prepared.

5.0 SUMMARY AND RECOMMENDATIONS

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

5.1 Groundwater Hydraulic Monitoring

Shallow and deep groundwater generally flows in an east-northeast direction towards Military Road. Approaching Bromley and Rose Valley Roads, the shallow and deep groundwater flow is to the west-southwest. In addition to the wells sampled, four additional wells (i.e., MW-02, MW-14, MW-15 and MW-17) were measured in order to provide the deep groundwater contours. It is recommended that these wells continue to be measured during future monitoring events.

5.2 Groundwater Quality Monitoring

Two VOCs (cis-1,2-dichoroethene and 1,1-dichloroethane) exceeded TOGS 1.1.1 Class GA standards and guidance values in the 2013 groundwater samples at two locations, MW-03 and MW-04. There were no VOC exceedances in the Sentry Wells. Historical results of the ten wells are provided in Table 3 and Figure 5. The concentrations of the VOCs in the 2013 monitoring event are consistent when compared with the 2010 - 2012 results from MW-03 and MW-04. Using a Mann-Kendall statistical analysis, no trends have been identified in the groundwater, as shown on Table 7.

5.3 Surface Water/Detention Pond Quality Monitoring

Only one VOC, benzene, was detected in one of the four surface water locations from the 2013 monitoring event. No VOCs exceeded the TOGS 1.1.1 Class C surface water standards and guidance values, consistent with previous monitoring events. Historical data from the surface water sampling locations is provided in Table 5. Using a Mann-Kendall statistical analysis, no trends have been identified in the surface water, as shown on Table 7.

5.4 Monitoring Well Maintenance

No maintenance is necessary for the monitoring wells.

5.5 Landfill Maintenance

All landfill cap components appeared to be sound. The landfill was mowed in July 2013. The Department did not want a second mowing to occur in 2013. The landfill should be scheduled to be mowed in June 2014. Erosion was noted on the west side of the landfill at the toe drain/channel interface and on the north side of the site, north of the stone-lined drainage channel. Ruts have formed in the

gravel on the landfill road. URS recommends that approximately 20 cubic yards of gravel be brought on site and used to fill the ruts in an effort to fix the perimeter access road from Rose Valley Road all the way to the landfill. URS and the Department discussed the recommendation of placing approximately 120 linear feet of concrete jersey barrier at the top of the landfill from the west fence, near the southwestern gate, west to the hill to prevent ATVs from riding through the area and creating tracks which promote erosion and rilling. As an additional deterent, URS also recommends welding the existing concrete barriers together that are currently located at the back site entrance along Military Road. This would help prevent site access and minimize the disposal of solid waste and construction and demolition debris.

During the October 16, 2013 site inspection, new trash dumping piles were observed at the back entrance from Military Road. The trash piles included an old toilet, paint cans, and municipal solid waste along with construction and demolition debris. In the area where the Department had previously removed over 500 discarded tires, more tires have been discarded, along with wildlife carcasses and other municipal trash. The NYSDEC will monitor erosion and dumping during the next monitoring event. Corrective action may be necessary to mitigate the erosion and to remove the trash based on future observations.

TABLES

TABLE 1
GROUNDWATER ELEVATION MEASUREMENTS
ROSE VALLEY LANDFILL

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-02	1601925.82	356255.39			1305.15	B							
WL								8/17/2004 1415	58.38	1246.77	0.00		
WL								7/12/2011 1313	57.55	1247.60	0.00		
WL								10/17/2012 1028	60.59	1244.56	0.00		
WL								10/16/2013 0814	58.89	1246.26	0.00		
MW-03	1602437.498	357450.2192			1175.58	A							
WL								8/19/2004 1210	3.31	1172.27	0.00		
WL								4/21/2010 0000	3.03	1172.55	0.00		
WL								7/12/2011 1335	3.01	1172.57	0.00		
WL								10/17/2012 1223	2.85	1172.73	0.00		
WL								10/16/2013 1412	2.84	1172.74	0.00		
MW-04	1602588.989	357572.8098			1172.46	A							
WL								8/19/2004 1310	2.56	1169.90	0.00		
WL								4/21/2010 0000	2.63	1169.83	0.00		
WL								7/12/2011 1345	2.54	1169.92	0.00		
WL								10/17/2012 1234	2.40	1170.06	0.00		
WL								10/16/2013 1318	2.50	1169.96	0.00		
MW-14	1602932.523	356221.9497			1317.83	B							
WL								8/19/2004 1610	96.74	1221.09	0.00		
WL								7/12/2011 1520	98.55	1219.28	0.00		
WL								10/17/2012 1129	98.42	1219.41	0.00		
WL								10/16/2013 0827	95.34	1222.49	0.00		
MW-16	1602287.308	357950.8887			1152.58	A							
WL								8/18/2004 1320	4.00	1148.58	0.00		
WL								4/21/2010 0000	3.00	1149.58	0.00		
WL								7/12/2011 1400	3.56	1149.02	0.00		

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

A Shallow Unconfined Aquifer

B Deep Unconfined Aquifer

TABLE 1
GROUNDWATER ELEVATION MEASUREMENTS
ROSE VALLEY LANDFILL

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
WL								10/17/2012 1208	3.30	1149.28	0.00		
WL								10/16/2013 1143	3.01	1149.57	0.00		
MW-17	1602592.476	356386.6381			1311.72	B							
WL								8/17/2004 1715	87.30	1224.42	0.00		
WL								7/12/2011 1505	86.69	1225.03	0.00		
WL								10/17/2012 1121	87.06	1224.66	0.00		
WL								10/16/2013 0820	87.15	1224.57	0.00		
SW-01D	1601823.93	355356.06	1262.0		1264.70	B							
WL								8/17/2004 1025	68.64	1196.06	0.00		
WL								4/21/2010 0000	67.13	1197.57	0.00		
WL								7/12/2011 1437	67.37	1197.33	0.00		
WL								10/17/2012 1048	68.71	1195.99	0.00		
WL								10/15/2013 1500	67.89	1196.81	0.00		
SW-01S	1601817.02	355346.13	1260.5		1263.17	A							
WL								8/17/2004 1020	19.32	1243.85	0.00		
WL								4/21/2010 0000	19.05	1244.12	0.00		
WL								7/12/2011 1435	18.56	1244.61	0.00		
WL								10/17/2012 1045	20.82	1242.35	0.00		
WL								10/15/2013 1610	19.55	1243.62	0.00		
SW-02D	1601370.34	355721.25			1257.00	B							
WL								8/16/2004 1600	70.49	1186.51	0.00		
WL								4/21/2010 0000	70.10	1186.90	0.00		
WL								7/12/2011 1450	70.73	1186.27	0.00		
WL								10/17/2012 1106	70.97	1186.03	0.00		
WL								10/15/2013 1357	70.42	1186.58	0.00		

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

A Shallow Unconfined Aquifer

B Deep Unconfined Aquifer

TABLE 1
GROUNDWATER ELEVATION MEASUREMENTS
ROSE VALLEY LANDFILL

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
SW-02S	1601367.21	355730.86			1257.20	A							
WL								8/16/2004 1700	12.05	1245.15	0.00		
WL								4/21/2010 0000	12.36	1244.84	0.00		
WL								7/12/2011 1448	11.30	1245.90	0.00		
WL								10/17/2012 1108	13.95	1243.25	0.00		
WL								10/15/2013 1239	12.40	1244.80	0.00		
SW-03S	1601483.4	355518.17			1257.67	A							
WL								8/17/2004 0925	12.73	1244.94	0.00		
WL								4/21/2010 0000	12.81	1244.86	0.00		
WL								7/12/2011 1440	11.85	1245.82	0.00		
WL								10/17/2012 1058	14.52	1243.15	0.00		
WL								10/15/2013 1137	19.96	1237.71	0.00		
SW-04D	1602328.65	358265.16	1149.0		1148.65	B							
WL								8/18/2004 1205	NM	-	NM	-	Artesian well
WL								4/21/2010 0000	NM	-	NM	-	Artesian well
WL								7/12/2011 1415	NM	-	NM	-	Artesian well
WL								10/17/2012 1152	NM	-	NM	-	Artesian well
WL								10/16/2013 0910	-19.38	1168.03	NM		8.4 psi at wellhead
SW-04S	1602315.5	358278.21	1148.3		1148.00	A							
WL								8/18/2004 1225	3.76	1144.24	0.00		
WL								4/21/2010 0000	2.83	1145.17	0.00		
WL								7/12/2011 1420	3.40	1144.60	0.00		
WL								10/17/2012 1153	3.20	1144.80	0.00		
WL								10/16/2013 1018	3.35	1144.65	0.00		

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Geologic Zone:

A Shallow Unconfined Aquifer

B Deep Unconfined Aquifer

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN 2013 GROUNDWATER SAMPLES
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	SW-01S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/16/13	10/16/13	10/16/13	10/15/13	10/15/13
Parameter	**Units**	*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5	1.9	11			
1,2-Dichloroethene (cis)	UG/L	5	6.6				

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

- = No standard or guidance value.

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

Only Detected Results Reported.

Advanced Selection: Tab 2 Oct 201
I:\11176167\DB\Program\EDMS.mdb
Printed: 3/4/2014 10:22:53 AM
[LOGDATE] >= #10/15/2013# AND [MATRIX] = 'WG

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN 2013 GROUNDWATER SAMPLES
ROSE VALLEY LANDFILL

Location ID			SW-02D	SW-02D	SW-02S	SW-03S	SW-04D
Sample ID			FD-101513	SW-02D	SW-02S	SW-03S	SW-04D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/15/13	10/15/13	10/15/13	10/15/13	10/16/13
Parameter	**Units**	*	Field Duplicate (1-1)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5			1.0		
1,1-Dichloroethane	UG/L	5					
1,2-Dichloroethene (cis)	UG/L	5					

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

- = No standard or guidance value.

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

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN 2013 GROUNDWATER SAMPLES
ROSE VALLEY LANDFILL

Location ID			SW-04S
Sample ID			SW-04S
Matrix			Groundwater
Depth Interval (ft)			-
Date Sampled			10/16/13
Parameter	**Units**	*	
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	5	
1,1-Dichloroethane	UG/L	5	
1,2-Dichloroethene (cis)	UG/L	5	

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

- = No standard or guidance value.

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

Only Detected Results Reported.

Advanced Selection: Tab 2 Oct 201
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[LOGDATE] >= #10/15/2013# AND [MATRIX] = 'WG

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

Location ID			MW-03	MW-03	MW-03	MW-03	MW-04
Sample ID			MW-03	MW-03	MW-03	MW-03	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	04/21/10
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5	2.3	2.2	3 J	1.9	9.3
1,2-Dichloroethene (cis)	UG/L	5	7.1	8.0	11	6.6	2.3
Chloroethane	UG/L	5					
Dichlorodifluoromethane	UG/L	5	0.75 J				0.86 J
Metals							
Aluminum	UG/L	-		NA	NA	NA	
Barium	UG/L	1000	47.6	NA	NA	NA	16.0
Cadmium	UG/L	5		NA	NA	NA	
Calcium	UG/L	-	225,000	NA	NA	NA	171,000
Chromium	UG/L	50		NA	NA	NA	
Iron	UG/L	300	252	NA	NA	NA	1,050
Magnesium	UG/L	35000	18,600	NA	NA	NA	31,700
Manganese	UG/L	300	2,450	NA	NA	NA	525
Potassium	UG/L	-	3,320	NA	NA	NA	1,130
Sodium	UG/L	20000	3,800	NA	NA	NA	14,100
Vanadium	UG/L	-		NA	NA	NA	

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

- = No standard or guidance value.

Blank cell or ND - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

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

Location ID			MW-04	MW-04	MW-04	MW-16	MW-16
Sample ID			MW-04	MW-04	MW-04	MW-16	MW-16
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/13/11	10/18/12	10/16/13	04/21/10	07/13/11
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5	10	15	11		
1,2-Dichloroethene (cis)	UG/L	5	2.4	3 J			
Chloroethane	UG/L	5	0.35 J				
Dichlorodifluoromethane	UG/L	5		1 J			
Metals							
Aluminum	UG/L	-	NA	NA	NA		NA
Barium	UG/L	1000	NA	NA	NA	31.0	NA
Cadmium	UG/L	5	NA	NA	NA		NA
Calcium	UG/L	-	NA	NA	NA	77,900	NA
Chromium	UG/L	50	NA	NA	NA		NA
Iron	UG/L	300	NA	NA	NA	16,600	NA
Magnesium	UG/L	35000	NA	NA	NA	8,150	NA
Manganese	UG/L	300	NA	NA	NA	1,090	NA
Potassium	UG/L	-	NA	NA	NA		NA
Sodium	UG/L	20000	NA	NA	NA	5,800	NA
Vanadium	UG/L	-	NA	NA	NA		NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

- = No standard or guidance value.

Blank cell or ND - Not detected.

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Only Detected Results Reported.

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

Location ID			MW-16	MW-16	SW-01D	SW-01D	SW-01D
Sample ID			MW-16	MW-16	DUP-2	SW-01D	SW-01D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/18/12	10/16/13	04/21/10	04/21/10	07/12/11
Parameter	**Units**	**Criteria***			Field Duplicate (1-1)		
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,2-Dichloroethene (cis)	UG/L	5					
Chloroethane	UG/L	5					
Dichlorodifluoromethane	UG/L	5					
Metals							
Aluminum	UG/L	-	NA	NA			NA
Barium	UG/L	1000	NA	NA	71.2	70.2	NA
Cadmium	UG/L	5	NA	NA			NA
Calcium	UG/L	-	NA	NA	28,600	27,600	NA
Chromium	UG/L	50	NA	NA			NA
Iron	UG/L	300	NA	NA	292 J	631 J	NA
Magnesium	UG/L	35000	NA	NA	14,000	13,500	NA
Manganese	UG/L	300	NA	NA	8.8	11.8	NA
Potassium	UG/L	-	NA	NA	1,940	1,890	NA
Sodium	UG/L	20000	NA	NA	10,200	9,900	NA
Vanadium	UG/L	-	NA	NA			NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

- = No standard or guidance value.

Blank cell or ND - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 3
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN GROUNDWATER SAMPLES
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			10/17/12	10/15/13	04/21/10	07/12/11	07/12/11
Parameter	**Units**	**Criteria***				Field Duplicate (1-1)	
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,2-Dichloroethene (cis)	UG/L	5					
Chloroethane	UG/L	5					
Dichlorodifluoromethane	UG/L	5					
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
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
Vanadium	UG/L	-	NA	NA	6.6	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

- = No standard or guidance value.

Blank cell or ND - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

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

Location ID			SW-01S	SW-01S	SW-02D	SW-02D	SW-02D
Sample ID			SW-01S	SW-01S	SW-02D	SW-02D	FD-101712
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/17/12	10/15/13	04/22/10	07/12/11	10/17/12
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,2-Dichloroethene (cis)	UG/L	5					
Chloroethane	UG/L	5					
Dichlorodifluoromethane	UG/L	5					
Metals							
Aluminum	UG/L	-	NA	NA	443	NA	NA
Barium	UG/L	1000	NA	NA	65.7	NA	NA
Cadmium	UG/L	5	NA	NA		NA	NA
Calcium	UG/L	-	NA	NA	62,800	NA	NA
Chromium	UG/L	50	NA	NA	4.1	NA	NA
Iron	UG/L	300	NA	NA	433	NA	NA
Magnesium	UG/L	35000	NA	NA	22,300	NA	NA
Manganese	UG/L	300	NA	NA	10.2	NA	NA
Potassium	UG/L	-	NA	NA	1,870	NA	NA
Sodium	UG/L	20000	NA	NA	7,500	NA	NA
Vanadium	UG/L	-	NA	NA		NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

- = No standard or guidance value.

Blank cell or ND - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

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

Location ID			SW-02D	SW-02D	SW-02D	SW-02S	SW-02S
Sample ID			SW-02D	FD-101513	SW-02D	SW-02S	SW-02S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/17/12	10/15/13	10/15/13	04/22/10	07/12/11
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5				1.9	
1,1-Dichloroethane	UG/L	5					
1,2-Dichloroethene (cis)	UG/L	5					
Chloroethane	UG/L	5					
Dichlorodifluoromethane	UG/L	5					
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
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
Vanadium	UG/L	-	NA	NA	NA		NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

- = No standard or guidance value.

Blank cell or ND - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

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

Location ID			SW-02S	SW-02S	SW-03S	SW-03S	SW-03S
Sample ID			SW-02S	SW-02S	SW-03S	SW-03S	SW-03S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/17/12	10/15/13	04/22/10	07/12/11	10/17/12
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1 J	1.0			
1,1-Dichloroethane	UG/L	5					
1,2-Dichloroethene (cis)	UG/L	5					
Chloroethane	UG/L	5					
Dichlorodifluoromethane	UG/L	5					
Metals							
Aluminum	UG/L	-	NA	NA		NA	NA
Barium	UG/L	1000	NA	NA	8.8	NA	NA
Cadmium	UG/L	5	NA	NA		NA	NA
Calcium	UG/L	-	NA	NA	74,400	NA	NA
Chromium	UG/L	50	NA	NA		NA	NA
Iron	UG/L	300	NA	NA		NA	NA
Magnesium	UG/L	35000	NA	NA	3,040	NA	NA
Manganese	UG/L	300	NA	NA		NA	NA
Potassium	UG/L	-	NA	NA	1,910	NA	NA
Sodium	UG/L	20000	NA	NA	22,600	NA	NA
Vanadium	UG/L	-	NA	NA		NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

- = No standard or guidance value.

Blank cell or ND - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

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

Location ID			SW-03S	SW-04D	SW-04D	SW-04D	SW-04D
Sample ID			SW-03S	SW-04D	SW-04D	SW-04D	SW-04D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/15/13	04/21/10	07/13/11	10/17/12	10/16/13
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,2-Dichloroethene (cis)	UG/L	5					
Chloroethane	UG/L	5					
Dichlorodifluoromethane	UG/L	5					
Metals							
Aluminum	UG/L	-	NA	1,800	NA	NA	NA
Barium	UG/L	1000	NA	14.7	NA	NA	NA
Cadmium	UG/L	5	NA	2.4	NA	NA	NA
Calcium	UG/L	-	NA	12,200	NA	NA	NA
Chromium	UG/L	50	NA		NA	NA	NA
Iron	UG/L	300	NA	1,630	NA	NA	NA
Magnesium	UG/L	35000	NA	1,960	NA	NA	NA
Manganese	UG/L	300	NA	38.7	NA	NA	NA
Potassium	UG/L	-	NA	1,170	NA	NA	NA
Sodium	UG/L	20000	NA	32,000	NA	NA	NA
Vanadium	UG/L	-	NA		NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

- = No standard or guidance value.

Blank cell or ND - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

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

Location ID			SW-04S	SW-04S	SW-04S	SW-04S
Sample ID			SW-04S	SW-04S	SW-04S	SW-04S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			04/21/10	07/13/11	10/17/12	10/16/13
Parameter	**Units**	**Criteria***				
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	5				
1,1-Dichloroethane	UG/L	5				
1,2-Dichloroethene (cis)	UG/L	5				
Chloroethane	UG/L	5		0.48 J		
Dichlorodifluoromethane	UG/L	5				
Metals						
Aluminum	UG/L	-	336	NA	NA	NA
Barium	UG/L	1000	26.1	NA	NA	NA
Cadmium	UG/L	5		NA	NA	NA
Calcium	UG/L	-	92,700	NA	NA	NA
Chromium	UG/L	50		NA	NA	NA
Iron	UG/L	300	8,870	NA	NA	NA
Magnesium	UG/L	35000	6,900	NA	NA	NA
Manganese	UG/L	300	2,080	NA	NA	NA
Potassium	UG/L	-	1,940	NA	NA	NA
Sodium	UG/L	20000	4,300	NA	NA	NA
Vanadium	UG/L	-		NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

- = No standard or guidance value.

Blank cell or ND - Not detected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 4
SUMMARY OF DETECTED COMPOUNDS IN 2013 SURFACE/DETENTION POND WATER SAMPLES
ROSE VALLEY LANDFILL

Location ID			NDP	NDP	SDP	SWTR-1E	SWTR-1T
Sample ID			FD-101613	NDP	SDP	SWTR-1E	SWTR-1T
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/16/13	10/16/13	10/16/13	10/16/13	10/16/13
Parameter	**Units**	*	Field Duplicate (1-1)				
Volatile Organic Compounds							
Benzene	UG/L	10					2.1 J

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class C.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

Blank cell or ND - Not detected.

Only Detected Results Reported.

Advanced Selection: Tab 4 Oct 201
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[MATRIX] = 'WS' AND [LOGDATE] = #10/16/2013#

TABLE 5
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SURFACE/DETENTION POND WATER SAMPLES
ROSE VALLEY LANDFILL

Location ID			NDP	NDP	NDP	NDP	NDP
Sample ID			NDP	FD-071311	NDP-WS	NDP-WS	FD-101613
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/20/10	07/13/11	07/13/11	10/18/12	10/16/13
Parameter	**Units**	*		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds							
Acetone	UG/L	-					
Benzene	UG/L	10					
Chlorobenzene	UG/L	5					
Metals							
Aluminum	UG/L	100 ionic		NA	NA	NA	NA
Barium	UG/L	-	32.5	NA	NA	NA	NA
Calcium	UG/L	-	123,000	NA	NA	NA	NA
Cobalt	UG/L	5		NA	NA	NA	NA
Iron	UG/L	300	1,650	NA	NA	NA	NA
Magnesium	UG/L	-	15,900	NA	NA	NA	NA
Manganese	UG/L	-	720	NA	NA	NA	NA
Nickel	UG/L	calc, diss		NA	NA	NA	NA
Potassium	UG/L	-	3,700	NA	NA	NA	NA
Sodium	UG/L	-	4,000	NA	NA	NA	NA
Miscellaneous Parameters							
Hardness (calculated)	MG/L	-	373	NA	NA	NA	NA

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class C.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

- = No standard or guidance value. Blank cell or ND - Not detected. J - The reported concentration is an estimated value.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 5
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SURFACE/DETENTION POND WATER SAMPLES
ROSE VALLEY LANDFILL

Location ID			NDP	SDP	SDP	SDP	SDP
Sample ID			NDP	DUP-1	SDP	SDP-WS	FD-101812
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/16/13	04/20/10	04/20/10	07/13/11	10/18/12
Parameter	**Units**	*		Field Duplicate (1-1)			Field Duplicate (1-1)
Volatile Organic Compounds							
Acetone	UG/L	-					
Benzene	UG/L	10					
Chlorobenzene	UG/L	5					
Metals							
Aluminum	UG/L	100 ionic	NA	1,570	1,460	NA	NA
Barium	UG/L	-	NA	51.8	49.7	NA	NA
Calcium	UG/L	-	NA	77,200	74,600	NA	NA
Cobalt	UG/L	5	NA			NA	NA
Iron	UG/L	300	NA	2,790	2,360	NA	NA
Magnesium	UG/L	-	NA	16,200	15,800	NA	NA
Manganese	UG/L	-	NA	101 J	71.3 J	NA	NA
Nickel	UG/L	calc, diss	NA			NA	NA
Potassium	UG/L	-	NA	7,760	7,650	NA	NA
Sodium	UG/L	-	NA	6,200	6,100	NA	NA
Miscellaneous Parameters							
Hardness (calculated)	MG/L	-	NA	259	251	NA	NA

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class C.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

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NA - Not analyzed.

Only Detected Results Reported.

TABLE 5
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SURFACE/DETENTION POND WATER SAMPLES
ROSE VALLEY LANDFILL

Location ID			SDP	SDP	SWTR-1E	SWTR-1E	SWTR-1E
Sample ID			SDP-WS	SDP	SWTR-1E	SWTR-1E	SWTR-1E
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/18/12	10/16/13	04/20/10	07/13/11	10/18/12
Parameter	**Units**	*					
Volatile Organic Compounds							
Acetone	UG/L	-					
Benzene	UG/L	10					
Chlorobenzene	UG/L	5					
Metals							
Aluminum	UG/L	100 ionic	NA	NA		NA	NA
Barium	UG/L	-	NA	NA	22.3	NA	NA
Calcium	UG/L	-	NA	NA	88,400	NA	NA
Cobalt	UG/L	5	NA	NA		NA	NA
Iron	UG/L	300	NA	NA	230	NA	NA
Magnesium	UG/L	-	NA	NA	12,800	NA	NA
Manganese	UG/L	-	NA	NA	25.4	NA	NA
Nickel	UG/L	calc, diss	NA	NA		NA	NA
Potassium	UG/L	-	NA	NA	5,570	NA	NA
Sodium	UG/L	-	NA	NA	6,600	NA	NA
Miscellaneous Parameters							
Hardness (calculated)	MG/L	-	NA	NA	273	NA	NA

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class C.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

- = No standard or guidance value. Blank cell or ND - Not detected. J - The reported concentration is an estimated value.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 5
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SURFACE/DETENTION POND WATER SAMPLES
ROSE VALLEY LANDFILL

Location ID			SWTR-1E	SWTR-1T	SWTR-1T	SWTR-1T	SWTR-1T
Sample ID			SWTR-1E	SWTR-1T	SWRT-1T	SWTR-1T	SWTR-1T
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/16/13	04/21/10	07/13/11	10/18/12	10/16/13
Parameter	**Units**	*					
Volatile Organic Compounds							
Acetone	UG/L	-		9.4	20 J		
Benzene	UG/L	10			1.8 J		2.1 J
Chlorobenzene	UG/L	5		0.75 J	3.3 J		
Metals							
Aluminum	UG/L	100 ionic	NA		NA	NA	NA
Barium	UG/L	-	NA	117	NA	NA	NA
Calcium	UG/L	-	NA	122,000	NA	NA	NA
Cobalt	UG/L	5	NA	7.1	NA	NA	NA
Iron	UG/L	300	NA	10,500	NA	NA	NA
Magnesium	UG/L	-	NA	26,100	NA	NA	NA
Manganese	UG/L	-	NA	385	NA	NA	NA
Nickel	UG/L	calc, diss	NA	12.0	NA	NA	NA
Potassium	UG/L	-	NA	70,800	NA	NA	NA
Sodium	UG/L	-	NA	65,400	NA	NA	NA
Miscellaneous Parameters							
Hardness (calculated)	MG/L	-	NA	412	NA	NA	NA

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class C.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

- = No standard or guidance value. Blank cell or ND - Not detected. J - The reported concentration is an estimated value.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 6
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SURFACE WATER
CRITERIA FOR CLASS C SURFACE WATERS REQUIRING CALCULATION
ROSE VALLEY LANDFILL

		Sample ID	NDP		DUP-1 (SDP)		SDP		SWTR-1E		SWTR-1T	
		Sample Date	04/20/10		04/20/10		04/20/10		04/20/10		04/21/10	
	Units	Criteria Applies To	Criteria	Result	Criteria	Result	Criteria	Result	Criteria	Result	Criteria	Result
Metals												
Hardness (calculated)	MG/L	Not applicable	--	373	--	259	--	251	--	273	--	412
Nickel	UG/L	Dissolved form	158		117		113		122		172	12.0

Criteria:
NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class C.

-- - No criteria
Blank cell - not detected
Only detected results shown.

TABLE 7
MANN-KENDALL STATISTICAL ANALYSIS
OF GROUNDWATER AND SURFACE WATER 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	4	4	1	0.625	No Trend
1,2-Dichloroethene (cis)	WG	VOA	4	4	1	0.625	No Trend
Dichlorodifluoromethane	WG	VOA	4	1	-3	0.375	No Trend
Total Volatile Organic Compounds	WG	VOA	4	4	-1	0.625	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	4	4	4	0.167	No Trend
1,2-Dichloroethene (cis)	WG	VOA	4	3	-1	0.625	No Trend
Dichlorodifluoromethane	WG	VOA	4	2	-2	0.375	No Trend
Total Volatile Organic Compounds	WG	VOA	4	4	-1	0.625	No Trend

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	4	3	-1	0.625	No Trend
Total Volatile Organic Compounds	WG	VOA	4	3	-1	0.625	No Trend

LOCID: SWTR-1T

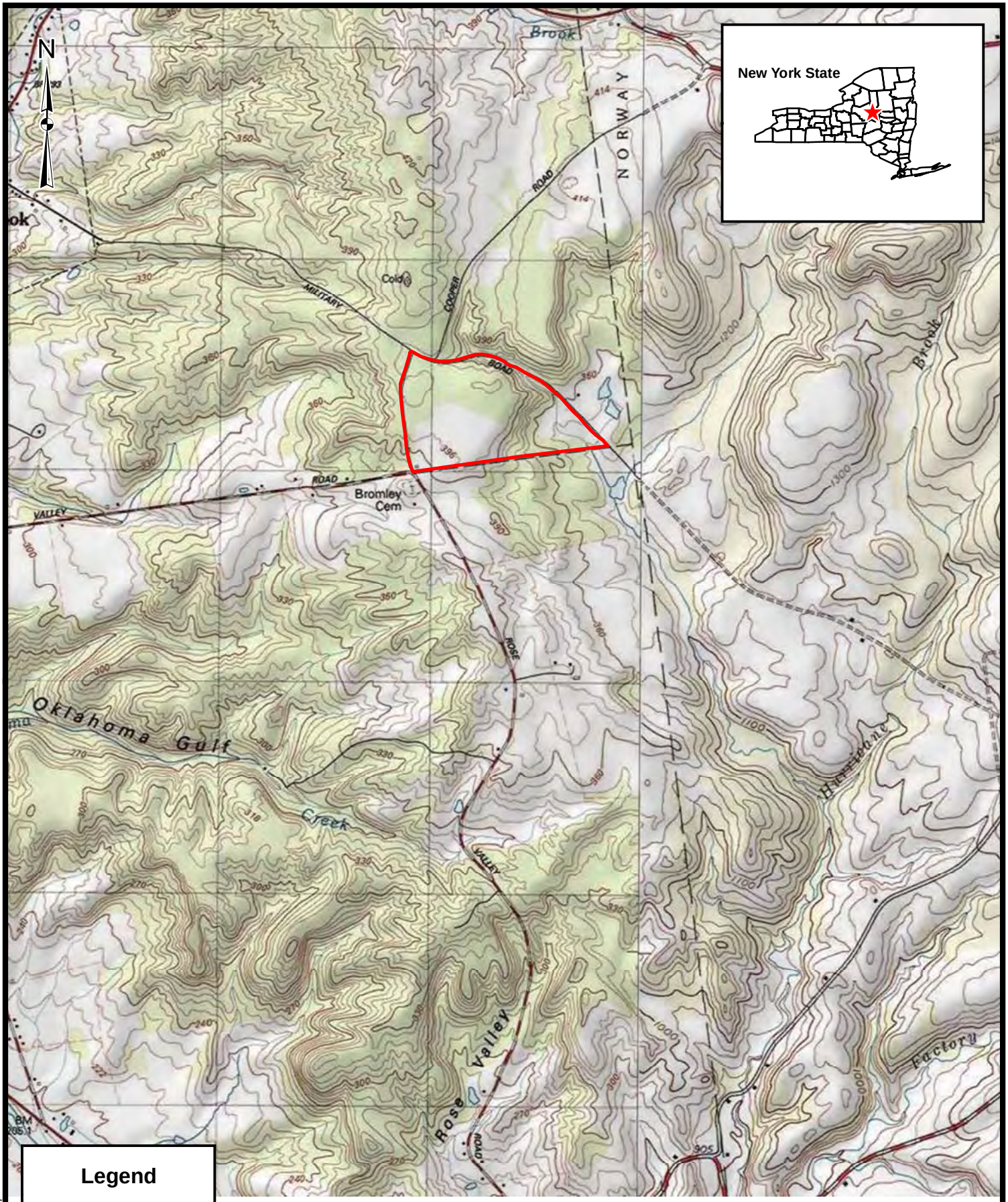
Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
Acetone	WS	VOA	4	2	-3	0.375	No Trend
Benzene	WS	VOA	4	2	2	0.375	No Trend
Chlorobenzene	WS	VOA	4	2	-3	0.375	No Trend
Total Volatile Organic Compounds	WS	VOA	4	3	-2	0.375	No Trend

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.

MATRIX: WG - Groundwater. WS - Surface Water.

Only Detected Results Reported.

FIGURES



URS

ROSE VALLEY LANDFILL
SITE LOCATION

FIGURE 1

I:\11176167\GIS\2013 Annual Report\01 SITE LOCATION.mxd 12/9/2013

N

Cooper Rd

MW-14

MW-15

MW-17

JERSEY BARRIER WITH FENCE

MW-04

NDP

MW-03

MW-16

SW-04D

SW-04S

SWTR-1E

SWTR-1T

SDP

APPROXIMATE AREA OF WETLANDS

MW-02

Bromley Rd

SW-01D

SW-01S

LANDFILL FENCE

Rose Valley Rd

Military Rd

SW-03S

NEARBY RESIDENCES

SW-02D

SW-02S

Legend

- Groundwater Monitoring Well
- Surface Water Sampling Location
- Residential Buildings

300 0 300 Feet

ROSE VALLEY LANDFILL
SITE PLAN

URS

FIGURE 2

I:\11176167\GIS\2013 Annual Report\02 SITE PLAN.mxd 12/9/2013

N

Cooper Rd

JERSEY BARRIER WITH FENCE

MW-04, 1169.96

MW-03, 1172.74

SW-04S, 1144.65

MW-16, 1149.57

1150

1160

1170

1180

1190

1200

1210

1220

1230

1240

1240

LANDFILL FENCE

Bromley Rd

SW-01S, 1243.62

Rose Valley Rd

SW-03S, 1237.71

SW-02S, 1244.8

Milltary Rd

Legend

- Groundwater Monitoring Well
- 1240 Groundwater Contours (FT AMSL)

FT AMSL = Feet Above Mean Sea Level

300 0 300 Feet

ROSE VALLEY LANDFILL
POTENTIOMETRIC SURFACE (SHALLOW)
OCTOBER 15 & 16, 2013

URS

FIGURE 3

I:\11176167\GIS\2013 Annual Report\03 GW CONTOURS SHALLOW 131015.mxd 12/9/2013

N

Cooper Rd

MW-14, 1222.49

JERSEY BARRIER WITH FENCE

MW-15, 1224.04

MW-17, 1224.57

SW-04D, 1168.03

1170

1190

1200

1210

1220

1230

1240

MW-02, 1246.26

SW-01D, 1196.81

Bromley Rd

Rose Valley Rd

SW-02D, 1186.58

LANDFILL FENCE

Military Rd

Legend

- Groundwater Monitoring Well
- 1240 Groundwater Contours (FT AMSL)

FT AMSL = Feet Above Mean Sea Level

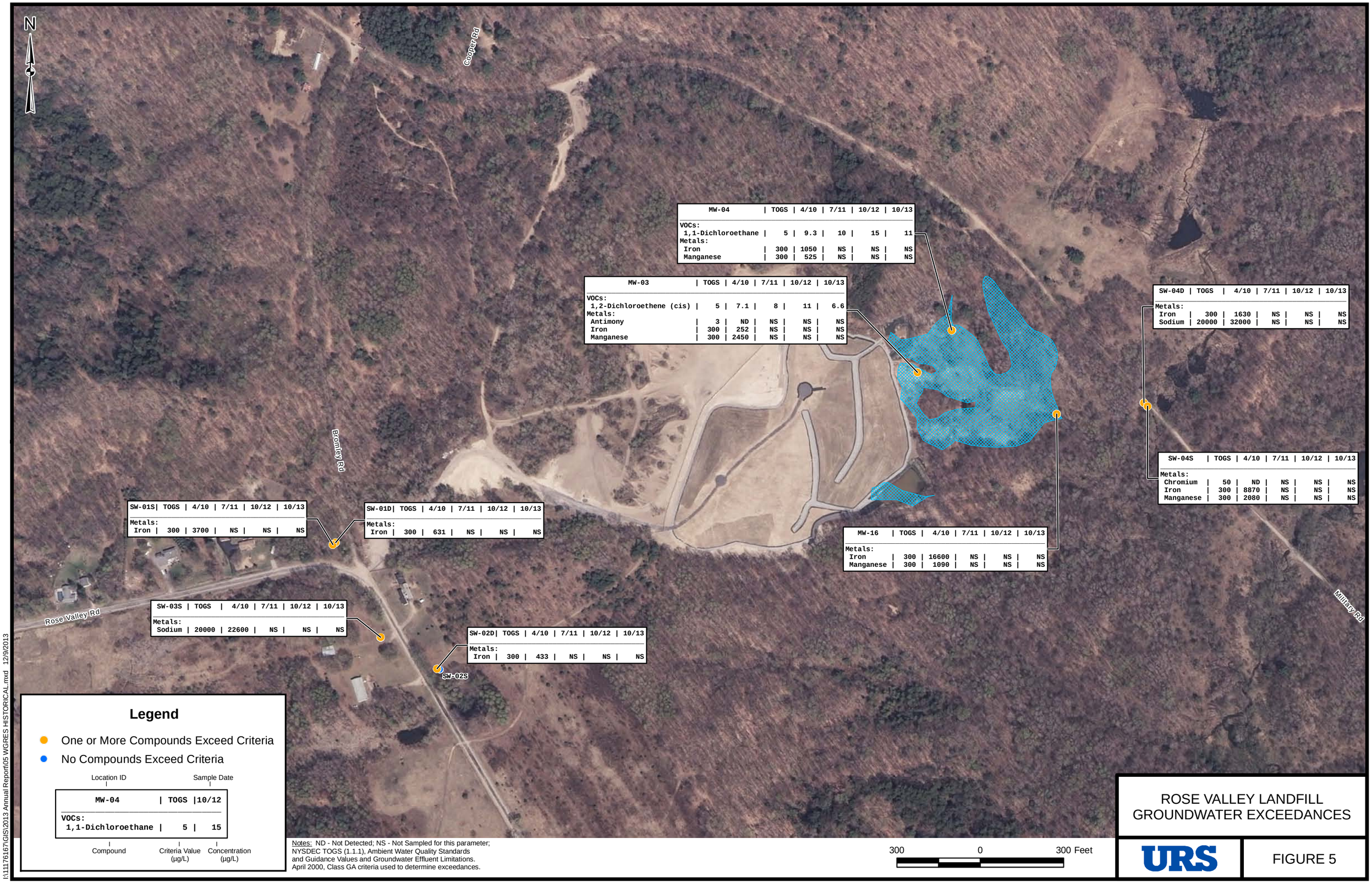
300 0 300 Feet

ROSE VALLEY LANDFILL
POTENTIOMETRIC SURFACE (DEEP)
OCTOBER 15 & 16, 2013

URS

FIGURE 4

I:\11176167\GIS\2013 Annual Report\04 GW CONTOURS DEEP 131015.mxd 12/9/2013



MW-04	TOGS	4/10	7/11	10/12	10/13
VOCs:					
1,1-Dichloroethane	5	9.3	10	15	11
Metals:					
Iron	300	1050	NS	NS	NS
Manganese	300	525	NS	NS	NS

MW-03	TOGS	4/10	7/11	10/12	10/13
VOCs:					
1,2-Dichloroethene (cis)	5	7.1	8	11	6.6
Metals:					
Antimony	3	ND	NS	NS	NS
Iron	300	252	NS	NS	NS
Manganese	300	2450	NS	NS	NS

SW-04D	TOGS	4/10	7/11	10/12	10/13
Metals:					
Iron	300	1630	NS	NS	NS
Sodium	20000	32000	NS	NS	NS

SW-04S	TOGS	4/10	7/11	10/12	10/13
Metals:					
Chromium	50	ND	NS	NS	NS
Iron	300	8870	NS	NS	NS
Manganese	300	2080	NS	NS	NS

SW-01S	TOGS	4/10	7/11	10/12	10/13
Metals:					
Iron	300	3700	NS	NS	NS

SW-01D	TOGS	4/10	7/11	10/12	10/13
Metals:					
Iron	300	631	NS	NS	NS

MW-16	TOGS	4/10	7/11	10/12	10/13
Metals:					
Iron	300	16600	NS	NS	NS
Manganese	300	1090	NS	NS	NS

SW-03S	TOGS	4/10	7/11	10/12	10/13
Metals:					
Sodium	20000	22600	NS	NS	NS

SW-02D	TOGS	4/10	7/11	10/12	10/13
Metals:					
Iron	300	433	NS	NS	NS

Legend

- One or More Compounds Exceed Criteria
- No Compounds Exceed Criteria

Location ID | Sample Date

MW-04	TOGS	10/12
VOCs:		
1,1-Dichloroethane	5	15

Compound | Criteria Value (µg/L) | Concentration (µg/L)

Notes: ND - Not Detected; NS - Not Sampled for this parameter; 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.

300 0 300 Feet

ROSE VALLEY LANDFILL GROUNDWATER EXCEEDANCES

URS

FIGURE 5

I:\11176167\GIS\2013 Annual Report\05 WGRES HISTORICAL.mxd 12/9/2013

Legend

- One or More Compounds Exceed Criteria
- No Compounds Exceed Criteria

Location ID | Sample Date

SDP	TOGS	4/10
VOCs:		
Aluminum	100	1570

Compound | Criteria Value (µg/L) | Concentration (µg/L)

Notes: NS - Not Sampled for this parameter;
NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class C criteria used to determine exceedances.

300 0 300 Feet

ROSE VALLEY LANDFILL
SURFACE WATER/ DETENTION POND EXCEEDANCES

URS

FIGURE 6

I:\11176167\GIS\2013 Annual Report\06 WSRES.mxd 12/9/2013

APPENDIX A

FIELD NOTES

Location Poland, NY Date 10/15/13

Project / Client Rose Valley Landfill / NYSDEC

1100 - arrive onsite
URS- Tim Ifflowich
weather - partly cloudy ~60°
Calibrate U-52 w/ flow cell

	Actual	Reading
pH	3.9	4.0
Cond	4.49	4.48
Turb	0.0	0.4

- will sample 10 monitoring wells & 4 surface water locations for TCL VOCs + TICs analysis
1137 - Begin to purge SW-035.
NYSDEC onsite - Mike Mason & Chris Keenan
1200 - NYSDEC offsite for lunch
1207 - sample ~~DUP~~ SW-035 (TW)
1239 - Begin to purge SW-025 ~~of TRIP BLANK~~
1300 - NYSDEC return to the site
1314 - Sample SW-025 w/ MS/MSD
1357 - Begin to purge SW-02D
1427 - Sample SW-02D w/ Field Dup.
1500 - Begin to purge SW-01D
1525 - Chuck Duxl (URS) arrives onsite

Location _____ Date 10/15/13

Project / Client Rose Valley Landfill

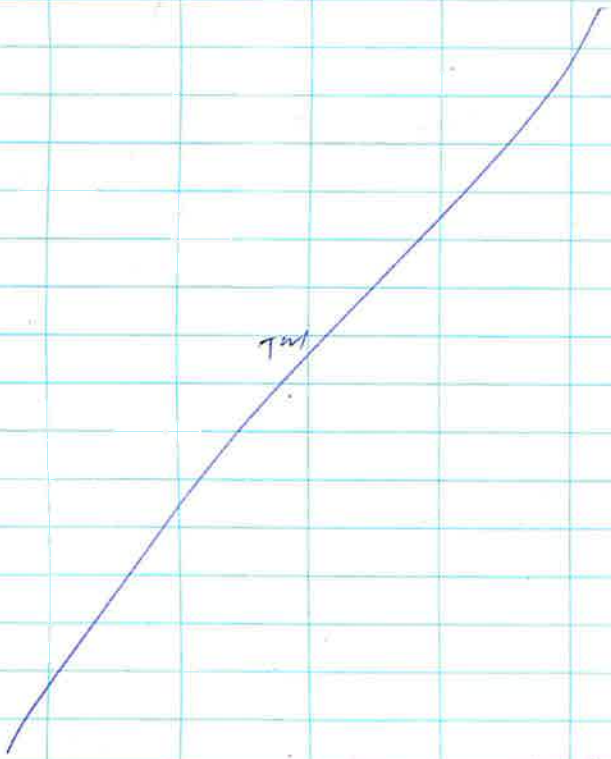
1546- Collect sample from SW-01D

1610- Begin to purge SW-01S

NYSDEC offsite

1700- Finished sampling SW-01S

- TI & CD offsite



Location Poland, NY Date 10/16/13

Project / Client Rose Valley Landfill / NYSDEC

Weather - Cloudy, ~60°

0800- onsite - Tim Ifkovich, Chuck Dusel

ID	DTB	DTW	Time	
MW-02	96.60	58.89	0814	soft
MW-14	109.24	99.34	0927	
MW-15	90.59	88.32	0822	
MW-17	98.81	87.15	0820	

0830- collected water level measurements from the above wells, these wells do not require sampling

0900- used a water pressure gauge (0-30 psi range) connected to 1" PVC & a 1" Packer to collect a pressure reading from wetesian well SW-04D pressure reading = 8.4 PSI

0910 - Begin to purge SW-04D

- CD begins to perform Landfill inspection

1010- Sample SW-04D

1018- Begin to purge SW-04S

1048- Sample SW-04S

1143- Begin to ~~purge~~ MW-16

1233- Sample MW-16

Location _____ Date 10/16/13

Project / Client Rose Valley Landfill

1240 - Collect sample @ SWTR-1E plus MS/MSD
1318 - Begin to purge MW-04
1348 - Sample MW-04
CD completed Landfill inspection.
Note: - Erosion filling has continued on the access roads @ the top of the landfill
- One concrete barrier along Military Rd was removed & found further down the road, may need to connect & weld the barriers together to prevent tampering
- more garbage was also found near the barriers @ military rd
1412 - Begin to purge MW-03
1442 - Sample MW-03
1455 - Collect sample @ NDP, also Field Dup
1515 - Collect sample @ SWTR-1T
1530 - Collect sample @ SDP
1630 - Measured distance @ top of landfill from west fence, west to hill (~120')
may place concrete barriers to prevent 4x4's from creating tracks which creates rilling & erosion
- URS off site

Location _____ Date _____

Project / Client _____

APPENDIX B

MONITORING WELL PURGE LOGS/ SURFACE WATER SAMPLE LOG

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176716.00004 Site: Rose Valley Landfill Well #: MW-03

Sampling Personnel: C. Dusel, T. Ifkovich Date: 10/16/13 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 2.84 Depth to Well Bottom: 17.26 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 8.9 Estimated Purge Volume (liters): 8.4

Sample ID: MW-03 Sample Time: 1442 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1412	7.24	15.05	1.08	0.00	5.9	19	280	2.84
1417	6.71	13.36	1.13	0.00	2.8	26	280	3.55
1422	6.43	13.01	1.13	0.00	1.4	28	280	3.60
1427	6.40	12.89	1.12	0.00	1.3	25	280	3.62
1432	6.45	12.83	1.11	0.00	1.2	20	280	3.62
1437	6.51	12.80	1.11	0.00	1.0	17	280	3.62
1442	6.49	12.81	1.11	0.00	1.1	17	280	3.62
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: 11176716.00004 Site: Rose Valley Landfill Well #: MW-04

Sampling Personnel: C. Dusel, T. Ifkovich Date: 10/16/13 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 2.50 Depth to Well Bottom: 17.54 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 9.3 Estimated Purge Volume (liters): 7.5

Sample ID: MW-04 Sample Time: 1348 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1318	7.53	16.37	0.955	0.28	20.9	0	250	2.50
1323	7.08	15.58	0.966	0.00	62.3	-7	250	2.93
1328	6.87	15.15	0.967	0.00	33.9	-4	250	2.93
1333	6.78	14.76	0.974	0.00	23.8	-3	250	2.94
1338	6.75	14.61	0.977	0.00	19.6	-3	250	2.94
1343	6.72	14.55	0.977	0.00	11.8	-2	250	2.94
1348	6.72	14.52	0.978	0.00	9.9	-3	250	2.94
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: 11176716.00004 Site: Rose Valley Landfill Well #: MW-16

Sampling Personnel: C. Dusel, T. Ifkovich Date: 10/16/13 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 3.01 Depth to Well Bottom: 11.62 Well Diameter: 2" Screen Length: 8'

Casing Type: PVC Volume in 1 Well Casing (liters): 5.3 Estimated Purge Volume (liters): 5.1

Sample ID: MW-16 Sample Time: 1233 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1143	7.33	13.48	0.491	0.57	96.7	-64	125	3.01
1148	6.81	12.82	0.492	0.00	31.8	-61	100	4.22
1153	6.86	12.78	0.487	0.00	18.7	-74	100	4.62
1158	6.82	12.75	0.487	0.00	21.2	-75	100	4.85
1203	6.78	12.71	0.485	0.00	24.3	-76	100	5.09
1208	6.75	12.68	0.484	0.00	28.7	-77	100	5.26
1213	6.76	12.75	0.485	0.00	24.3	-79	100	5.37
1218	6.77	12.82	0.485	0.00	22.0	-80	100	5.48
1223	6.85	12.80	0.487	0.00	18.3	-84	100	5.59
1228	6.90	12.79	0.488	0.00	15.7	-87	100	5.67
1233	6.89	12.79	0.490	0.00	15.4	-87	100	5.76
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: 11176716.00004 Site: Rose Valley Landfill Well #: SW-01S

Sampling Personnel: C. Dusel, T. Ifkovich Date: 10/15/13 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 19.55 Depth to Well Bottom: 28.39 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 5.5 Estimated Purge Volume (liters): 9.4

Sample ID: SW-01S Sample Time: 1648 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1608	7.56	13.26	0.569	8.91	216	139	250	19.55
1613	6.99	10.98	0.572	7.94	18.5	173	250	20.12
1618	6.53	10.92	0.556	7.77	6.3	178	250	20.80
1623	6.92	11.00	0.563	7.65	5.3	177	225	20.82
1628	6.76	10.97	0.568	7.54	5.4	185	225	20.84
1633	6.55	10.95	0.574	7.42	5.6	199	225	20.85
1638	6.43	10.89	0.584	7.34	5.9	206	225	20.86
1643	6.44	10.89	0.588	7.30	4.8	208	225	20.87
1648	6.53	10.82	0.590	7.28	4.9	204	225	20.87
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: 11176716.00004 Site: Rose Valley Landfill Well #: SW-01D

Sampling Personnel: C. Dusel, T. Ifkovich Date: 10/15/13 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 67.89 Depth to Well Bottom: 83.87 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 9.9 Estimated Purge Volume (liters): 10.4

Sample ID: SW-01D Sample Time: 1546 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1500	7.82	11.78	0.280	0.00	28.3	99	225	67.89
1505	7.59	11.48	0.257	0.00	16.2	68	225	68.60
1510	7.36	13.15	0.256	0.00	12.3	63	225	68.70
1515	7.26	14.37	0.254	0.00	8.6	50	225	68.85
1520	7.31	14.92	0.252	0.00	5.3	24	225	68.98
1525	7.37	14.90	0.250	0.00	3.1	0	225	69.14
1530	7.43	14.93	0.250	0.00	2.3	-9	225	69.25
1535	7.77	14.94	0.248	0.00	2.4	-33	225	69.41
1540	7.67	15.15	0.246	0.00	2.2	-37	225	69.55
1543	7.64	14.98	0.245	0.00	2.0	-38	225	69.58
1546	7.60	14.90	0.245	0.00	2.0	-40	225	69.61
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: 11176716.00004 Site: Rose Valley Landfill Well #: SW-02S

Sampling Personnel: C. Dusel, T. Ifkovich Date: 10/15/13 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 12.40 Depth to Well Bottom: 20.04 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 4.7 Estimated Purge Volume (liters): 13.1

Sample ID: SW-02S Sample Time: 1314 QA/QC: MS/MSD

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1239	8.12	16.63	0.254	9.77	96.8	148	375	12.40
1244	7.79	14.25	0.244	9.51	59.1	169	375	12.40
1249	7.60	14.30	0.237	9.16	41.3	180	375	12.40
1254	7.37	14.05	0.235	9.01	17.9	190	375	12.40
1259	7.27	13.93	0.233	8.96	13.7	195	375	12.40
1304	7.24	13.91	0.232	8.90	8.2	199	375	12.40
1309	7.20	13.91	0.230	8.76	7.7	201	375	12.40
1314	7.22	13.92	0.229	8.74	5.9	197	375	12.40
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: 11176716.00004 Site: Rose Valley Landfill Well #: SW-02D

Sampling Personnel: C. Dusel, T. Ifkovich Date: 10/15/13 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 70.42 Depth to Well Bottom: 79.19 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 5.4 Estimated Purge Volume (liters): 42.0

Sample ID: SW-02D Sample Time: 1427 QA/QC: FD-101513

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1357	7.69	10.33	0.470	0.39	3.0	138	1400	70.42
1402	7.48	13.31	0.450	0.00	0.0	129	1400	70.43
1407	7.24	13.67	0.443	0.00	0.0	121	1400	70.43
1412	7.17	13.64	0.441	0.00	0.0	109	1400	70.43
1417	7.28	13.63	0.439	0.00	0.0	102	1400	70.43
1422	7.33	13.59	0.439	0.00	0.0	101	1400	70.43
1427	7.37	13.54	0.437	0.00	0.0	102	1400	70.43
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

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176716.00004 Site: Rose Valley Landfill Well #: SW-03S

Sampling Personnel: C. Dusel, T. Ifkovich Date: 10/15/13 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 12.96 Depth to Well Bottom: 18.81 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 3.6 Estimated Purge Volume (liters): 9.8

Sample ID: SW-03S Sample Time: 1207 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1137	7.90	14.42	0.898	11.33	703	124	275	12.96
1142	7.29	13.18	0.801	10.57	232	154	275	13.00
1147	7.06	13.14	0.745	10.30	114	168	350	13.02
1152	6.87	13.10	0.745	10.10	67.0	178	350	13.02
1157	6.86	13.14	0.743	9.92	41.5	181	350	13.02
1202	6.82	13.11	0.742	9.86	36.5	183	350	13.02
1207	6.82	13.15	0.745	9.68	28.6	183	350	13.02
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: 11176716.00004 Site: Rose Valley Landfill Well #: SW-04S

Sampling Personnel: C. Dusel, T. Ifkovich Date: 10/16/13 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 3.35 Depth to Well Bottom: 8.20 Well Diameter: 2" Screen Length: 8'

Casing Type: PVC Volume in 1 Well Casing (liters): 3.0 Estimated Purge Volume (liters): 6.0

Sample ID: SW-04S Sample Time: 1048 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1018	8.45	12.93	0.601	0.00	52.9	-59	200	3.35
1023	7.52	13.50	0.609	0.00	43.6	-75	200	3.72
1028	7.20	13.62	0.622	0.00	13.1	-77	200	3.86
1033	7.02	13.65	0.634	0.00	11.1	-77	200	3.99
1038	6.91	13.67	0.643	0.00	10.8	-78	200	4.23
1043	6.85	13.68	0.645	0.00	10.0	-79	200	4.45
1048	6.83	13.70	0.645	0.00	12.3	-79	200	4.65
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: 11176716.00004 Site: Rose Valley Landfill Well #: SW-04D

Sampling Personnel: C. Dusel, T. Ifkovich Date: 10/16/13 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: -19.38 Depth to Well Bottom: 84.42 Well Diameter: 2" Screen Length: 8'

Casing Type: PVC Volume in 1 Well Casing (liters): 52.1 Estimated Purge Volume (liters): 54.0

Sample ID: SW-04D Sample Time: 1010 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0910	7.35	10.00	0.170	0.12	441	198	900	--
0915	7.82	9.82	0.170	0.00	191	151	900	--
0920	7.94	9.80	0.170	0.00	307	123	900	--
0925	8.07	9.78	0.169	0.00	577	88	900	--
0930	8.53	9.78	0.169	0.00	>800	37	900	--
0935	8.76	9.77	0.170	0.00	>800	-2	900	--
0940	8.57	9.77	0.170	0.00	>800	-18	900	--
0945	8.34	9.77	0.170	0.00	>800	-35	900	--
0950	8.37	9.76	0.170	0.00	691	-49	900	--
0955	8.39	9.76	0.170	0.00	563	-62	900	--
1000	8.85	9.77	0.170	0.00	442	-88	900	--
1005	8.91	9.77	0.170	0.00	363	-93	900	--
1010	9.12	9.75	0.170	0.00	365	-98	900	--
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 = 8.4 psi. 1 Pound Per Square Inch = 2.3067 Feet Of Water

SURFACE WATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: *Rose Valley Landfill*

Project Num ***11176716***

Sampling Crew Members: *C. Dusel, T. Ifkovich*

Supervisor: C. Dusel

Date of Sample Collection: *10/16/2013*

Sample I.D. Number	***Sample Location***	***Est. Stream Width***	***Est. Stream Depth***	***Est. Stream Velocity***	***pH***	***Temp. ^{0}C***	***Diss. O_2 (mg/L)***	***Turb. (NTU)***	***Cond. (mS/cm)***	***ORP (mV)***	***Time***	***Sample Analysis***	***Sample Description***
NDP	NDP	Not measured	Not measured	Not measured	7.36	14.65	6.11	51.5	0.706	-7	1455	VOCs	Surface water & FD-101613
SDP	SDP	Not measured	Not measured	Not measured	7.45	15.10	9.13	163	0.651	-49	1530	VOCs	Surface water
SWTR-1E	SWTR-1E	Not measured	Not measured	Not measured	7.06	12.84	6.73	5.5	0.529	-96	1240	VOCs	Surface water & MS/MSD
SWTR-1T	SWTR-1T	Not measured	Not measured	Not measured	6.46	14.10	0.29	>800	1.70	-43	1515	VOCs	Surface water

Additional Comments:

APPENDIX C

PHOTOGRAPHIC LOG

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 1: 10/16/13 Looking east towards the landfill. The erosion/rilling in this area is starting to re-occur.

Photo 2: 10/16/13 Looking east at the western entrance to the landfill.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 3: 10/16/13 Close-up of gas vent.

Photo 4: 10/16/13 Looking north at main all-terrain vehicle recreation area/hill in background.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 5: 10/16/13 Erosion/rilling in access road on top of landfill. In some areas the erosion is approximately 12 inches deep.

Photo 6: 10/16/13 Close-up of erosion/rilling occurring in access road on top of landfill. Note fabric has been exposed.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 7: 10/16/13 Standing at the top of the landfill, looking east.

Photo 8: 10/16/13 Standing at the center of the landfill, looking south at gas vents and rip-rap lined drain chutes.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 9: 10/16/13 Location of erosion occurring north of the landfill.

Photo 10: 10/16/13 Location of erosion occurring north of the landfill.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 11: 10/16/13 Erosion occurring north of landfill, exposing fabric.

Photo 12: 10/16/13 North side of landfill, looking towards the North Detention Pond.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 13: 10/16/13 Looking at northeast drainage channel just west of North Detention Pond.

Photo 14: 10/16/13 Standing along the north side of the landfill. Looking east towards the North Detention Pond.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 15: 10/16/13 Close-up of main all-terrain vehicle recreation area/hill and perimeter swale.

Photo 16: 10/16/13 Trash in ravine along south side of Military Road.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 17: 10/16/13 Discarded tires and carcass in ravine along Military Road.

Photo 18: 10/16/13 Trash and damaged jersey barrier along Military Road.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 19: 10/16/13 Jersey barrier that was moved from the north landfill access road further down Military Road to allow access to the landfill for ATV riding.

Photo 20: 10/16/13 Construction and demolition debris along Military Road.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 21: 10/16/13 Remaining section of jersey barriers along Military Road restricting access to the landfill.

Photo 22: 10/16/13 Trash and jersey barriers along Military Road.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 23: 10/16/13 Looking southeast at landfill from top of sand dune.

Photo 24: 10/16/13 Erosion/rilling in gravel access road west of landfill.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 25: 10/16/13 Erosion/rilling in access road west of landfill. Note camera case and pen for scale.

Photo 26: 10/16/13 Typical low-flow groundwater sampling set-up. Photo taken at location MW-03.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 27: 10/16/13 Looking northwest towards the North Detention Pond.

Photo 28: 10/16/13 Surface water sampling location at North Detention Pond.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 29: 10/16/13 Looking east towards surface water sampling location at SWTR-1T. Note arrow for approximate sampling location.

Photo 30: 10/16/13 Close up of surface water sampling location at SWTR-1T.

ROSE VALLEY LANDFILL
2013 SITE MANAGEMENT
PHOTOGRAPHIC LOG

Photo 31: 10/16/13 Sampling surface water at South Detention Pond.

APPENDIX D

DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT

ROSE VALLEY LANDFILL SITE MANAGEMENT
2013 GROUNDWATER/SURFACE WATER SAMPLING EVENT
NYSDEC WORK ASSIGNMENT #D007622-07

ROSE VALLEY LANDFILL

HERKIMER COUNTY, NEW YORK

SITE NO. 622017

Analyses Performed by:

TESTAMERICA LABORATORIES, INC.
10 HAZELWOOD DRIVE
AMHERST, NY 14228

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

Prepared by:

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203

NOVEMBER 2013

TABLE OF CONTENTS

TABLES
(Following Text)

ATTACHMENTS

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 (10) groundwater samples, one (1) field duplicate, and one (1) matrix spike/matrix spike duplicate (MS/MSD) pair; and four (4) surface water samples, one (1) field duplicate, and one (1) MS/MSD pair collected by URS personnel on October 15-16, 2013 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 # D007622-07.

2.0 ANALYTICAL METHODOLOGIES/DATA VALIDATION PROCEDURES

All samples were sent to the NYSDEC callout laboratory TestAmerica Laboratories, Inc. (Amherst, NY) and analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method SW8260B, plus tentatively identified compounds (TICs).

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

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B, SOP HW-24, Rev. 2, August 2008.*

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, 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), and ‘R’ (rejected). 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 Tables 2 (groundwater), 3 (surface water), and 4 (field QC). 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

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

4.0 PRESERVATION/SAMPLE RECEIPT/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

Instrument Calibration

The percent difference (%D) between the initial calibration (ICAL) average relative response factor (RRF) and the RRF in the continuing calibration standard (CCAL) associated with the samples was greater than 20% for dichlorodifluoromethane. The results for this compound in the associated samples listed in Table 1 were qualified 'UJ'.

Instrument Contamination

Column-bleed compounds (i.e., silanols) were reported as TICs by the laboratory. The TIC results for the associated samples listed on Table 1 were qualified 'R' (rejected).

Field Duplicate Samples

The field duplicates were collected at groundwater location SW-02D and surface water location

NDP, which exhibited good analytical precision. Note, USEPA Region II validation guidelines do not require qualification of VOC analytical results based upon field duplicate precision.

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.

Note, the undiluted analysis of surface water SWTR-1T exhibited "foaming", thus requiring a secondary dilution (5x). The quantitation limits reported for the non-detects are the lowest achievable at the diluted level.

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) are considered conditionally usable. Those TIC results qualified 'R' are rejected and considered unusable. URS does not recommend the recollection of any samples at this time.

Prepared By: Peter R. Fairbanks, Senior Chemist PF **Date:** 11/20/13

Reviewed By: George E. Kisluk, Senior Chemist GEK **Date:** 11/20/13

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
ROSE VALLEY LANDFILL SITE

SAMPLE ID	FRACTION	ANALYTICAL DEVIATION	QUALIFICATION
All groundwater, surface water, and field QC samples.	VOA	%D between the ICAL average RRF and the CCAL RRF >20% for dichlorodifluoromethane.	Qualify non-detect results 'UJ'.
MW-04, SW-01D, SW-03S, SW-04D, SWTR-1E, SWTR-1T, FD-101613 (field duplicate of NDP), FD-101613 (field duplicate of SW-02D), TB-101713	VOA	Column-bleed compounds (i.e., silanols) reported as TICs.	Qualify TIC results 'R'.

.

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
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	SW-01S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/16/13	10/16/13	10/16/13	10/15/13	10/15/13
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	UG/L	1	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	UG/L	5	1.9	11	1 U	1 U	1 U
1,1-Dichloroethene	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	UG/L	3	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	UG/L	0.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene (cis)	UG/L	5	6.6	1 U	1 U	1 U	1 U
1,2-Dichloroethene (trans)	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	UG/L	1	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	UG/L	3	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropene (cis)	UG/L	0.4	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropene (trans)	UG/L	0.4	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	UG/L	3	1 U	1 U	1 U	1 U	1 U
2-Hexanone	UG/L	50	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	UG/L	-	5 U	5 U	5 U	5 U	5 U
Acetone	UG/L	50	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	UG/L	50	1 U	1 U	1 U	1 U	1 U
Bromoform	UG/L	50	1 U	1 U	1 U	1 U	1 U
Bromomethane	UG/L	5	1 U	1 U	1 U	1 U	1 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: PRF 10/30/2013 Checked By: AMK 10/31/2013

Detection Limits shown are PQL

I:\11176167\DB\Program\EDMS.mdb
Printed: 10/30/2013 4:12:06 PM
[LOGDATE] >= #10/15/2013# AND [MATRIX] = 'WG

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
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	SW-01S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/16/13	10/16/13	10/16/13	10/15/13	10/15/13
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Carbon disulfide	UG/L	60	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	UG/L	5	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Chloroethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
Chloroform	UG/L	7	1 U	1 U	1 U	1 U	1 U
Chloromethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
Cyclohexane	UG/L	-	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	UG/L	50	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	UG/L	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Ethylbenzene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	UG/L	5	1 U	1 U	1 U	1 U	1 U
Methyl acetate	UG/L	-	1 U	1 U	1 U	1 U	1 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	UG/L	10	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane	UG/L	-	1 U	1 U	1 U	1 U	1 U
Methylene chloride	UG/L	5	1 U	1 U	1 U	1 U	1 U
Styrene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Toluene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Trichloroethene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	UG/L	2	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	5	2 U	2 U	2 U	2 U	2 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: PRF 10/30/2013 Checked By: AMK 10/31/2013

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID			SW-02D	SW-02D	SW-02S	SW-03S	SW-04D
Sample ID			FD-101513	SW-02D	SW-02S	SW-03S	SW-04D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/15/13	10/15/13	10/15/13	10/15/13	10/16/13
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1 U	1 U	1	1 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	UG/L	1	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	UG/L	3	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	UG/L	0.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene (cis)	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene (trans)	UG/L	5	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	UG/L	1	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	UG/L	3	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropene (cis)	UG/L	0.4	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropene (trans)	UG/L	0.4	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	UG/L	3	1 U	1 U	1 U	1 U	1 U
2-Hexanone	UG/L	50	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	UG/L	-	5 U	5 U	5 U	5 U	5 U
Acetone	UG/L	50	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	UG/L	50	1 U	1 U	1 U	1 U	1 U
Bromoform	UG/L	50	1 U	1 U	1 U	1 U	1 U
Bromomethane	UG/L	5	1 U	1 U	1 U	1 U	1 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: PRF 10/30/2013 Checked By: AMK 10/31/2013

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID			SW-02D	SW-02D	SW-02S	SW-03S	SW-04D
Sample ID			FD-101513	SW-02D	SW-02S	SW-03S	SW-04D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/15/13	10/15/13	10/15/13	10/15/13	10/16/13
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)				
Volatile Organic Compounds							
Carbon disulfide	UG/L	60	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	UG/L	5	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Chloroethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
Chloroform	UG/L	7	1 U	1 U	1 U	1 U	1 U
Chloromethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
Cyclohexane	UG/L	-	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	UG/L	50	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	UG/L	5	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Ethylbenzene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	UG/L	5	1 U	1 U	1 U	1 U	1 U
Methyl acetate	UG/L	-	1 U	1 U	1 U	1 U	1 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	UG/L	10	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane	UG/L	-	1 U	1 U	1 U	1 U	1 U
Methylene chloride	UG/L	5	1 U	1 U	1 U	1 U	1 U
Styrene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Toluene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Trichloroethene	UG/L	5	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	UG/L	5	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	UG/L	2	1 U	1 U	1 U	1 U	1 U
Xylene (total)	UG/L	5	2 U	2 U	2 U	2 U	2 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: PRF 10/30/2013 Checked By: AMK 10/31/2013

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID			SW-04S
Sample ID			SW-04S
Matrix			Groundwater
Depth Interval (ft)			-
Date Sampled			10/16/13
Parameter	**Units**	**Criteria***	
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	5	1 U
1,1,2,2-Tetrachloroethane	UG/L	5	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1 U
1,1,2-Trichloroethane	UG/L	1	1 U
1,1-Dichloroethane	UG/L	5	1 U
1,1-Dichloroethene	UG/L	5	1 U
1,2,4-Trichlorobenzene	UG/L	5	1 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	1 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	1 U
1,2-Dichlorobenzene	UG/L	3	1 U
1,2-Dichloroethane	UG/L	0.6	1 U
1,2-Dichloroethene (cis)	UG/L	5	1 U
1,2-Dichloroethene (trans)	UG/L	5	1 U
1,2-Dichloropropane	UG/L	1	1 U
1,3-Dichlorobenzene	UG/L	3	1 U
1,3-Dichloropropene (cis)	UG/L	0.4	1 U
1,3-Dichloropropene (trans)	UG/L	0.4	1 U
1,4-Dichlorobenzene	UG/L	3	1 U
2-Hexanone	UG/L	50	5 U
4-Methyl-2-pentanone	UG/L	-	5 U
Acetone	UG/L	50	10 U
Benzene	UG/L	1	1 U
Bromodichloromethane	UG/L	50	1 U
Bromoform	UG/L	50	1 U
Bromomethane	UG/L	5	1 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: PRF 10/30/2013 Checked By: AMK 10/31/2013

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID			SW-04S
Sample ID			SW-04S
Matrix			Groundwater
Depth Interval (ft)			-
Date Sampled			10/16/13
Parameter	**Units**	**Criteria***	
Volatile Organic Compounds			
Carbon disulfide	UG/L	60	1 U
Carbon tetrachloride	UG/L	5	1 U
Chlorobenzene	UG/L	5	1 U
Chloroethane	UG/L	5	1 U
Chloroform	UG/L	7	1 U
Chloromethane	UG/L	5	1 U
Cyclohexane	UG/L	-	1 U
Dibromochloromethane	UG/L	50	1 U
Dichlorodifluoromethane	UG/L	5	1 UJ
Ethylbenzene	UG/L	5	1 U
Isopropylbenzene (Cumene)	UG/L	5	1 U
Methyl acetate	UG/L	-	1 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	10 U
Methyl tert-butyl ether	UG/L	10	1 U
Methylcyclohexane	UG/L	-	1 U
Methylene chloride	UG/L	5	1 U
Styrene	UG/L	5	1 U
Tetrachloroethene	UG/L	5	1 U
Toluene	UG/L	5	1 U
Trichloroethene	UG/L	5	1 U
Trichlorofluoromethane	UG/L	5	1 U
Vinyl chloride	UG/L	2	1 U
Xylene (total)	UG/L	5	2 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: PRF 10/30/2013 Checked By: AMK 10/31/2013

Detection Limits shown are PQL

TABLE 3
VALIDATED SURFACE WATER SAMPLE ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID			NDP	NDP	SDP	SWTR-1E	SWTR-1T
Sample ID			FD-101613	NDP	SDP	SWTR-1E	SWTR-1T
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/16/13	10/16/13	10/16/13	10/16/13	10/16/13
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,1,2,2-Tetrachloroethane	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,1,2-Trichloroethane	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,1-Dichloroethane	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,1-Dichloroethene	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,2,4-Trichlorobenzene	UG/L	5	1 U	1 U	1 U	1 U	5 U
1,2-Dibromo-3-chloropropane	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,2-Dichlorobenzene	UG/L	5	1 U	1 U	1 U	1 U	5 U
1,2-Dichloroethane	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,2-Dichloroethene (cis)	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,2-Dichloroethene (trans)	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,2-Dichloropropane	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,3-Dichlorobenzene	UG/L	5	1 U	1 U	1 U	1 U	5 U
1,3-Dichloropropene (cis)	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,3-Dichloropropene (trans)	UG/L	-	1 U	1 U	1 U	1 U	5 U
1,4-Dichlorobenzene	UG/L	5	1 U	1 U	1 U	1 U	5 U
2-Hexanone	UG/L	-	5 U	5 U	5 U	5 U	25 U
4-Methyl-2-pentanone	UG/L	-	5 U	5 U	5 U	5 U	25 U
Acetone	UG/L	-	10 U	10 U	10 U	10 U	50 U
Benzene	UG/L	10	1 U	1 U	1 U	1 U	2.1 J
Bromodichloromethane	UG/L	-	1 U	1 U	1 U	1 U	5 U
Bromoform	UG/L	-	1 U	1 U	1 U	1 U	5 U
Bromomethane	UG/L	-	1 U	1 U	1 U	1 U	5 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class C.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: PRF 10/30/2013 Checked By: AMK 10/31/2013

Detection Limits shown are PQL

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TABLE 3
VALIDATED SURFACE WATER SAMPLE ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID			NDP	NDP	SDP	SWTR-1E	SWTR-1T
Sample ID			FD-101613	NDP	SDP	SWTR-1E	SWTR-1T
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/16/13	10/16/13	10/16/13	10/16/13	10/16/13
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)				
Volatile Organic Compounds							
Carbon disulfide	UG/L	-	1 U	1 U	1 U	1 U	5 U
Carbon tetrachloride	UG/L	-	1 U	1 U	1 U	1 U	5 U
Chlorobenzene	UG/L	5	1 U	1 U	1 U	1 U	5 U
Chloroethane	UG/L	-	1 U	1 U	1 U	1 U	5 U
Chloroform	UG/L	-	1 U	1 U	1 U	1 U	5 U
Chloromethane	UG/L	-	1 U	1 U	1 U	1 U	5 U
Cyclohexane	UG/L	-	1 U	1 U	1 U	1 U	5 U
Dibromochloromethane	UG/L	-	1 U	1 U	1 U	1 U	5 U
Dichlorodifluoromethane	UG/L	-	1 UJ	1 UJ	1 UJ	1 UJ	5 UJ
Ethylbenzene	UG/L	17	1 U	1 U	1 U	1 U	5 U
Isopropylbenzene (Cumene)	UG/L	2.6	1 U	1 U	1 U	1 U	5 U
Methyl acetate	UG/L	-	1 U	1 U	1 U	1 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/L	-	10 U	10 U	10 U	10 U	50 U
Methyl tert-butyl ether	UG/L	-	1 U	1 U	1 U	1 U	5 U
Methylcyclohexane	UG/L	-	1 U	1 U	1 U	1 U	5 U
Methylene chloride	UG/L	200	1 U	1 U	1 U	1 U	5 U
Styrene	UG/L	-	1 U	1 U	1 U	1 U	5 U
Tetrachloroethene	UG/L	1	1 U	1 U	1 U	1 U	5 U
Toluene	UG/L	100	1 U	1 U	1 U	1 U	5 U
Trichloroethene	UG/L	40	1 U	1 U	1 U	1 U	5 U
Trichlorofluoromethane	UG/L	-	1 U	1 U	1 U	1 U	5 U
Vinyl chloride	UG/L	-	1 U	1 U	1 U	1 U	5 U
Xylene (total)	UG/L	65	2 U	2 U	2 U	2 U	10 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class C.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: PRF 10/30/2013 Checked By: AMK 10/31/2013

Detection Limits shown are PQL

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TABLE 4
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID		FIELDQC
Sample ID		TB-101713
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		10/16/13
Parameter	**Units**	Trip Blank (1-1)
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/L	1 U
1,1,2,2-Tetrachloroethane	UG/L	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1 U
1,1,2-Trichloroethane	UG/L	1 U
1,1-Dichloroethane	UG/L	1 U
1,1-Dichloroethene	UG/L	1 U
1,2,4-Trichlorobenzene	UG/L	1 U
1,2-Dibromo-3-chloropropane	UG/L	1 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1 U
1,2-Dichlorobenzene	UG/L	1 U
1,2-Dichloroethane	UG/L	1 U
1,2-Dichloroethene (cis)	UG/L	1 U
1,2-Dichloroethene (trans)	UG/L	1 U
1,2-Dichloropropane	UG/L	1 U
1,3-Dichlorobenzene	UG/L	1 U
1,3-Dichloropropene (cis)	UG/L	1 U
1,3-Dichloropropene (trans)	UG/L	1 U
1,4-Dichlorobenzene	UG/L	1 U
2-Hexanone	UG/L	5 U
4-Methyl-2-pentanone	UG/L	5 U
Acetone	UG/L	10 U
Benzene	UG/L	1 U
Bromodichloromethane	UG/L	1 U
Bromoform	UG/L	1 U
Bromomethane	UG/L	1 U
Carbon disulfide	UG/L	1 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

UJ - Not detected. The reported quantitation limit is an estimated value.
Made By: PRF 10/30/2013 Checked By: AMK 10/31/2013

Detection Limits shown are PQL

TABLE 4
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID		FIELDQC
Sample ID		TB-101713
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		10/16/13
Parameter	**Units**	Trip Blank (1-1)
Volatile Organic Compounds		
Carbon tetrachloride	UG/L	1 U
Chlorobenzene	UG/L	1 U
Chloroethane	UG/L	1 U
Chloroform	UG/L	1 U
Chloromethane	UG/L	1 U
Cyclohexane	UG/L	1 U
Dibromochloromethane	UG/L	1 U
Dichlorodifluoromethane	UG/L	1 UJ
Ethylbenzene	UG/L	1 U
Isopropylbenzene (Cumene)	UG/L	1 U
Methyl acetate	UG/L	1 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U
Methyl tert-butyl ether	UG/L	1 U
Methylcyclohexane	UG/L	1 U
Methylene chloride	UG/L	1 U
Styrene	UG/L	1 U
Tetrachloroethene	UG/L	1 U
Toluene	UG/L	1 U
Trichloroethene	UG/L	1 U
Trichlorofluoromethane	UG/L	1 U
Vinyl chloride	UG/L	1 U
Xylene (total)	UG/L	2 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. ; NA - Not Analyzed

UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: PRF 10/30/2013 Checked By: AMK 10/31/2013

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM 1's

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

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-03S**

Lab Sample ID: 480-48159-1
Client Matrix: Water

Date Sampled: 10/15/2013 1207
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6793.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/22/2013 2350			Final Weight/Volume:	5 mL
Prep Date:	10/22/2013 2350				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND	10/30/13	0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: SW-03S

Lab Sample ID: 480-48159-1
Client Matrix: Water

Date Sampled: 10/15/2013 1207
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6793.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/22/2013 2350			Final Weight/Volume:	5 mL
Prep Date:	10/22/2013 2350				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	98		71 - 126
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	96		73 - 120

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-03S**

Lab Sample ID: 480-48159-1
Client Matrix: Water

Date Sampled: 10/15/2013 1207
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6793.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/22/2013 2350			Final Weight/Volume:	5 mL
Prep Date:	10/22/2013 2350				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
18173-64-3	tert-Butyldimethylsilanol	4.04	3.5	T J N

R

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Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-02S**

Lab Sample ID: 480-48159-2
Client Matrix: Water

Date Sampled: 10/15/2013 1314
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6794.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0011			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0011				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

10/30/13

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-02S**

Lab Sample ID: 480-48159-2
Client Matrix: Water

Date Sampled: 10/15/2013 1314
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6794.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0011			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0011				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		71 - 126
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-02S**

Lab Sample ID: 480-48159-2
Client Matrix: Water

Date Sampled: 10/15/2013 1314
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6794.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0011			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0011				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-02D**

Lab Sample ID: 480-48159-3
Client Matrix: Water

Date Sampled: 10/15/2013 1427
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: 5030C
Dilution: 1.0
Analysis Date: 10/23/2013 0115
Prep Date: 10/23/2013 0115

Analysis Batch: 480-146726
Prep Batch: N/A

Instrument ID: HP5975D
Lab File ID: D6797.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

10/30/13

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-02D**

Lab Sample ID: 480-48159-3
Client Matrix: Water

Date Sampled: 10/15/2013 1427
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6797.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0115			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0115				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		71 - 126
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: SW-02D

Lab Sample ID: 480-48159-3
Client Matrix: Water

Date Sampled: 10/15/2013 1427
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6797.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0115			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0115				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-01D**

Lab Sample ID: 480-48159-4
Client Matrix: Water

Date Sampled: 10/15/2013 1546
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6798.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0136			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0136				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-01D**

Lab Sample ID: 480-48159-4
Client Matrix: Water

Date Sampled: 10/15/2013 1546
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6798.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0136			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0136				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		71 - 126
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: SW-01D

Lab Sample ID: 480-48159-4
Client Matrix: Water

Date Sampled: 10/15/2013 1546
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6798.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0136			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0136				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
18173-64-3	tert-Butyldimethylsilanol	4.04	4.2	TJN

R

10/30/13

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-01S**

Lab Sample ID: 480-48159-5
Client Matrix: Water

Date Sampled: 10/15/2013 1648
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6799.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0157			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

10/30/13

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-01S**

Lab Sample ID: 480-48159-5
Client Matrix: Water

Date Sampled: 10/15/2013 1648
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6799.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0157			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		71 - 126
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-01S**

Lab Sample ID: 480-48159-5
Client Matrix: Water

Date Sampled: 10/15/2013 1648
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6799.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0157			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0157				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-04D**

Lab Sample ID: 480-48159-6
Client Matrix: Water

Date Sampled: 10/16/2013 1010
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6800.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0219			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0219				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ 10/30/13	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-04D**

Lab Sample ID: 480-48159-6
Client Matrix: Water

Date Sampled: 10/16/2013 1010
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6800.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0219			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0219				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		71 - 126
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-04D**

Lab Sample ID: 480-48159-6
Client Matrix: Water

Date Sampled: 10/16/2013 1010
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6800.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0219			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0219				

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
1066-40-6	Silanol, trimethyl-	4.04	2.4	T J N

R
10/30/13

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-04S**

Lab Sample ID: 480-48159-7
Client Matrix: Water

Date Sampled: 10/16/2013 1048
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6801.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0240			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0240				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-04S**

Lab Sample ID: 480-48159-7
Client Matrix: Water

Date Sampled: 10/16/2013 1048
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6801.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0240			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0240				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		71 - 126
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SW-04S**

Lab Sample ID: 480-48159-7
Client Matrix: Water

Date Sampled: 10/16/2013 1048
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6801.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0240			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0240				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **MW-16**

Lab Sample ID: 480-48159-8
Client Matrix: Water

Date Sampled: 10/16/2013 1253
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6802.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0301			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0301				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

10/30/13

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **MW-16**

Lab Sample ID: 480-48159-8
Client Matrix: Water

Date Sampled: 10/16/2013 1253
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6802.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0301			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0301				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		71 - 126
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **MW-16**

Lab Sample ID: 480-48159-8
Client Matrix: Water

Date Sampled: 10/16/2013 1253
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6802.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0301			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0301				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **SWTR-1E**

Lab Sample ID: 480-48159-9 Date Sampled: 10/16/2013 1240
Client Matrix: Water Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6803.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0322			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0322				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

10/30/13

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **SWTR-1E**

Lab Sample ID: 480-48159-9 Date Sampled: 10/16/2013 1240
Client Matrix: Water Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6803.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0322			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0322				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		71 - 126
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SWTR-1E**

Lab Sample ID: 480-48159-9
Client Matrix: Water

Date Sampled: 10/16/2013 1240
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6803.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0322			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0322				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
1066-40-6	Silanol, trimethyl-	4.04	2.4	TJN

10/30/13

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **MW-04**

Lab Sample ID: 480-48159-10
Client Matrix: Water

Date Sampled: 10/16/2013 1348
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6806.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0425			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0425				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	11		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

10/30/13

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **MW-04**

Lab Sample ID: 480-48159-10
Client Matrix: Water

Date Sampled: 10/16/2013 1348
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6806.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0425			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0425				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		71 - 126
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **MW-04**

Lab Sample ID: 480-48159-10
Client Matrix: Water

Date Sampled: 10/16/2013 1348
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6806.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0425			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0425				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
75-43-4	Dichlorofluoromethane	2.14	0.58	J
60-29-7	Ethyl ether	2.38	4.6	
~~55644-10-5~~	~~Silanol, dimethyl(1,1,2-trimethylpropyl)~~	~~4.04~~	~~18~~	~~T J N~~

10/30/13

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **MW-03**

Lab Sample ID: 480-48159-11 Date Sampled: 10/16/2013 1442
Client Matrix: Water Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6807.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0446			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0446				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	1.9		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	6.6		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	U.J	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

10/30/13

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **MW-03**

Lab Sample ID: 480-48159-11
Client Matrix: Water

Date Sampled: 10/16/2013 1442
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6807.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0446			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0446				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		71 - 126
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **MW-03**

Lab Sample ID: 480-48159-11
Client Matrix: Water

Date Sampled: 10/16/2013 1442
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6807.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0446			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0446				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **NDP**

Lab Sample ID: 480-48159-12
Client Matrix: Water

Date Sampled: 10/16/2013 1455
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6808.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0508			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0508				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND	10/30/13	0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **NDP**

Lab Sample ID: 480-48159-12
Client Matrix: Water

Date Sampled: 10/16/2013 1455
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6808.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0508			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0508				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		71 - 126
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	96		73 - 120

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **NDP**

Lab Sample ID: 480-48159-12 Date Sampled: 10/16/2013 1455
Client Matrix: Water Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6808.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0508			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0508				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **SWTR-1T**

Lab Sample ID: 480-48159-13 Date Sampled: 10/16/2013 1515
Client Matrix: Water Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6809.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0529			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0529				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		4.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.1	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.6	5.0
1,1-Dichloroethane	ND		1.9	5.0
1,1-Dichloroethene	ND		1.5	5.0
1,2,4-Trichlorobenzene	ND		2.1	5.0
1,2-Dibromo-3-Chloropropane	ND		2.0	5.0
1,2-Dichlorobenzene	ND		4.0	5.0
1,2-Dichloroethane	ND		1.1	5.0
1,2-Dichloropropane	ND		3.6	5.0
1,3-Dichlorobenzene	ND		3.9	5.0
1,4-Dichlorobenzene	ND		4.2	5.0
2-Butanone (MEK)	ND		6.6	50
2-Hexanone	ND		6.2	25
4-Methyl-2-pentanone (MIBK)	ND		11	25
Acetone	ND		15	50
Benzene	2.1	J	2.1	5.0
Bromodichloromethane	ND		2.0	5.0
Bromoform	ND		1.3	5.0
Bromomethane	ND		3.5	5.0
Carbon disulfide	ND		0.95	5.0
Carbon tetrachloride	ND		1.4	5.0
Chlorobenzene	ND		3.8	5.0
Dibromochloromethane	ND		1.6	5.0
Chloroethane	ND		1.6	5.0
Chloroform	ND		1.7	5.0
Chloromethane	ND		1.8	5.0
cis-1,2-Dichloroethene	ND		4.1	5.0
cis-1,3-Dichloropropene	ND		1.8	5.0
Cyclohexane	ND		0.90	5.0
Dichlorodifluoromethane	ND		3.4	5.0
Ethylbenzene	ND		3.7	5.0
1,2-Dibromoethane	ND		3.7	5.0
Isopropylbenzene	ND		4.0	5.0
Methyl acetate	ND		2.5	5.0
Methyl tert-butyl ether	ND		0.80	5.0
Methylcyclohexane	ND		0.80	5.0
Methylene Chloride	ND		2.2	5.0
Styrene	ND		3.7	5.0
Tetrachloroethene	ND		1.8	5.0
Toluene	ND		2.6	5.0
trans-1,2-Dichloroethene	ND		4.5	5.0
trans-1,3-Dichloropropene	ND		1.9	5.0
Trichloroethene	ND		2.3	5.0
Trichlorofluoromethane	ND		4.4	5.0

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **SWTR-1T**

Lab Sample ID: 480-48159-13
Client Matrix: Water

Date Sampled: 10/16/2013 1515
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6809.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0529			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0529				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		4.5	5.0
Xylenes, Total	ND		3 3	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		71 - 126
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **SWTR-1T**

Lab Sample ID: 480-48159-13
Client Matrix: Water

Date Sampled: 10/16/2013 1515
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6809.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0529			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0529				

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
60-29-7	Ethyl ether	2.38	8.9	
1066-40-6	Silanol, trimethyl-	4.04	14	T J N
109-99-9	Tetrahydrofuran	4.28	25	

R

10/30/13

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **SDP**

Lab Sample ID: 480-48159-14 Date Sampled: 10/16/2013 1530
Client Matrix: Water Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6810.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0550			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0550				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ 10/30/13	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **SDP**

Lab Sample ID: 480-48159-14 Date Sampled: 10/16/2013 1530
Client Matrix: Water Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6810.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0550			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0550				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		71 - 126
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **SDP**

Lab Sample ID: 480-48159-14
Client Matrix: Water

Date Sampled: 10/16/2013 1530
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6810.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0550			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0550				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Client: New York State D.E.C. Job Number: 480-48159-1

Field Duplicate of NDP

Client Sample ID: **FD-101613**

Lab Sample ID: 480-48159-15
Client Matrix: Water

Date Sampled: 10/16/2013 0000
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6811.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0610			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0610				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND	10/30/13	0.73	1.0
Isopropylbenzene	ND	I	0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: FD-101613 Field Duplicate of NDP

Lab Sample ID: 480-48159-15
Client Matrix: Water

Date Sampled: 10/16/2013 0000
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6811.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0610			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0610				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		71 - 126
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120

Client: New York State D.E.C. Job Number: 480-48159-1

Field Duplicate of NDP

Client Sample ID: **FD-101613**

Lab Sample ID: 480-48159-15
Client Matrix: Water

Date Sampled: 10/16/2013 0000
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6811.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0610			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0610				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
~~1066-40-6~~	~~Silanol, trimethyl-~~	~~4.04~~	~~8.2~~	~~T J N~~

R 10/30/13 BA

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **FD-101513** Field Duplicate of SO-02D

Lab Sample ID: 480-48159-16 Date Sampled: 10/15/2013 0000

Client Matrix: Water Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6812.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0631			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0631				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND		0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

10/30/13

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **FD-101513** Field Duplicate of SW-02D

Lab Sample ID: 480-48159-16

Client Matrix: Water

Date Sampled: 10/15/2013 0000

Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6812.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0631			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0631				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		71 - 126
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: FD-101513 Field Duplicate of SW-02D

Lab Sample ID: 480-48159-16
Client Matrix: Water

Date Sampled: 10/15/2013 0000
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6812.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0631			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0631				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
18173-64-3	tert-Butyldimethylsilanol	4.04	7.0	TJN

R 10/30/15

Client: New York State D.E.C. Job Number: 480-48159-1

Client Sample ID: **TB-101713**

Lab Sample ID: 480-48159-17
Client Matrix: Water

Date Sampled: 10/16/2013 0000
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6813.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0652			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0652				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND	UJ	0.68	1.0
Ethylbenzene	ND		0.74	1.0
1,2-Dibromoethane	ND	10/30/13	0.73	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **TB-101713**

Lab Sample ID: 480-48159-17
Client Matrix: Water

Date Sampled: 10/16/2013 0000
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6813.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0652			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0652				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		71 - 126
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120

Client: New York State D.E.C.

Job Number: 480-48159-1

Client Sample ID: **TB-101713**

Lab Sample ID: 480-48159-17
Client Matrix: Water

Date Sampled: 10/16/2013 0000
Date Received: 10/17/2013 1115

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-146726	Instrument ID:	HP5975D
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	D6813.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 0652			Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 0652				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
18173-64-3	tert-Butyldimethylsilanol	4.04	3.2	T J N

R
10/30/13
AK

ATTACHMENT B

SUPPORT DOCUMENTATION

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Tim Ifkovich	Lab PM: Hoffman, Sally J	Carrier Tracking No(s):	COC No: 480-40168-10641.1
Client Contact: Mr. George Kisluk	Phone: 856-566-5636	E-Mail: sally.hoffman@testamericainc.com		Page: Page 1 of 2
Company: URS Corporation				Job #:

Address: 77 Goodell St.	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Buffalo	TAT Requested (days): Standard TAT		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: NY, 14203			
Phone: 716-856-5636(Tel) 716-856-2545(Fax)	PO #: CallOut 122069		
Email: george.kisluk@urs.com	WO #:		Other:
Project Name: Rose Valley #622017	Project #: 48008612		
Site:	SSOW#:		

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 - (MOD) TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
SW-03S	10/15/13	1207	G	Water	N	N	3		
SW-02S	10/15/13	1314	G	Water	N	N	3		
SW-02D	10/15/13	1427	G	Water	N	N	3		
SW-01D	10/15/13	1546	G	Water	N	N	3		
SW-01S	10/15/13	1648	G	Water	N	N	3		
SW-04D	10/16/13	1010	G	Water	N	N	3		
SW-04S	10/16/13	1048	G	Water	N	N	3		
MW-1C	10/16/13	1233	G	Water	N	N	3		
SWTR-1E	10/16/13	1240	G	Water	N	N	3		
MW-04	10/16/13	1348	G	Water	N	N	3		
MW-03	10/16/13	1442	G	Water	N	N	3		

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

Special Instructions/QC Requirements:

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Tim Ifkovich	Date/Time: 10/17/13 1115	Company: URS	Received by: [signature] Date/Time: 10/17/13 1115 Company: #BUFNC
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #2 3.4

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10/28/2013

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: Mr. George Kisluk
Company: URS Corporation
Address: 77 Goodell St
City: Buffalo
State, Zip: NY, 14203
Phone: 716-856-5636(Tel) 716-856-2545(Fax)
Email: george.kisluk@urs.com
Project Name: Rose Valley #622017
Site:

Sampler: Tim Iffkovich
Phone: 856-5636
Lab PM: Hoffman, Sally J
E-Mail: sally.hoffman@testamericainc.com
Carrier Tracking No(s):

COC No: 480-40168-10641.2
Page: Page 2 of 2
Job #:

Due Date Requested:
TAT Requested (days): Standard TAT
PO #: CallOut 122069
WO #:
Project #: 48006612
SSOW#:

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
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 - (MOD) TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
NDP	10/16/13	1455	G	Water	N	N	3		
SWTR - 1T	10/16/13	1515	G	Water	N	N	3		
SDP	10/16/13	1530	G	Water	N	N	3		
Field Dup SW FD-101613	10/16/13	—	G	Water	N	N	3		
Field Dup GW FD-101513	10/15/13	—	G	Water	N	N	3		
MS SW-025-MS	10/15/13	1314	G	Water	N	Y	3		
MSD SW-025-MSD	10/15/13	1314	G	Water	N	Y	3		
MS SWTR-1E-MS	10/16/13	1240	G	Water	N	Y	3		
MSD SWTR-1E-MSD	10/16/13	1240	G	Water	N	Y	3		
Extra Set for Breakage				Water					
TB-101713	—	—					2		Trip Blank

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:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Tim Iffkovich	10/17/13 1115	URS		10/17/13 1115	TA BUFFALO
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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: #2 3.4

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10/28/2013

Job Narrative
480-48159-1

Receipt
The samples were received on 10/17/2013 11:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA
Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: SWTR-1T (480-48159-13). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 146726 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria.

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 147050 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 147050 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 146726 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-48159-1

SDG No.:

Lab File ID: D6786.D BFB Injection Date: 10/22/2013

Instrument ID: HP5975D BFB Injection Time: 19:22

Analysis Batch No.: 146726

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	48.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.4	(0.5)1
174	50.0 - 120.00 % of mass 95	78.9	
175	5.0 - 9.0 % of mass 174	6.1	(7.7)1
176	95.0 - 101.0 % of mass 174	77.0	(97.5)1
177	5.0 - 9.0 % of mass 176	5.2	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-146726/2	D6787.D	10/22/2013	21:26
	LCS 480-146726/4	D6789.D	10/22/2013	22:09
	MB 480-146726/5	D6790.D	10/22/2013	22:30
SW-03S	480-48159-1	D6793.D	10/22/2013	23:50
SW-02S	480-48159-2	D6794.D	10/23/2013	00:11
SW-02D	480-48159-3	D6797.D	10/23/2013	01:15
SW-01D	480-48159-4	D6798.D	10/23/2013	01:36
SW-01S	480-48159-5	D6799.D	10/23/2013	01:57
SW-04D	480-48159-6	D6800.D	10/23/2013	02:19
SW-04S	480-48159-7	D6801.D	10/23/2013	02:40
MW-16	480-48159-8	D6802.D	10/23/2013	03:01
SWTR-1E	480-48159-9	D6803.D	10/23/2013	03:22
SWTR-1E MS	480-48159-9 MS	D6804.D	10/23/2013	03:43
SWTR-1E MSD	480-48159-9 MSD	D6805.D	10/23/2013	04:04
MW-04	480-48159-10	D6806.D	10/23/2013	04:25
MW-03	480-48159-11	D6807.D	10/23/2013	04:46
NDP	480-48159-12	D6808.D	10/23/2013	05:08
SWTR-1T	480-48159-13	D6809.D	10/23/2013	05:29
SDP	480-48159-14	D6810.D	10/23/2013	05:50
FD-101613	480-48159-15	D6811.D	10/23/2013	06:10
FD-101513	480-48159-16	D6812.D	10/23/2013	06:31
TB-101713	480-48159-17	D6813.D	10/23/2013	06:52

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-48159-1

SDG No.:

Lab Sample ID: CCVIS 480-146726/2 Calibration Date: 10/22/2013 21:26

Instrument ID: HP5975D Calib Start Date: 10/17/2013 10:59

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 10/17/2013 12:45

Lab File ID: D6787.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2333	0.1768	0.1000	18.9	25.0	-24.2*	20.0
Chloromethane	Ave	0.2667	0.2818	0.1000	26.4	25.0	5.7	20.0
Vinyl chloride	Ave	0.3217	0.2879	0.1000	22.4	25.0	-10.5	20.0
Bromomethane	Ave	0.1632	0.1323	0.1000	20.3	25.0	-18.9	20.0
Chloroethane	Ave	0.1690	0.1717	0.1000	25.4	25.0	1.6	20.0
Trichlorofluoromethane	Ave	0.3256	0.3060	0.1000	23.5	25.0	-6.0	20.0
Acrolein	Ave	0.0512	0.0590		576	500	15.2	20.0
1,1-Dichloroethene	Ave	0.3059	0.2740	0.1000	22.4	25.0	-10.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2808	0.2570	0.1000	22.9	25.0	-8.5	20.0
Acetone	Ave	0.1178	0.1367	0.1000	145	125	16.0	20.0
Iodomethane	Ave	0.4481	0.4189		23.4	25.0	-6.5	20.0
Carbon disulfide	Ave	0.9242	0.8690	0.1000	23.5	25.0	-6.0	20.0
Acetonitrile	Ave	0.0234	0.0278		1190	1000	19.0	20.0
Methyl acetate	Ave	0.4039	0.4330	0.1000	26.8	25.0	7.2	20.0
Methylene Chloride	Ave	0.3630	0.3281	0.1000	22.6	25.0	-9.6	20.0
Methyl tert-butyl ether	Ave	1.076	1.096	0.1000	25.5	25.0	1.9	20.0
trans-1,2-Dichloroethene	Ave	0.3467	0.3163	0.1000	22.8	25.0	-8.8	20.0
Acrylonitrile	Ave	0.1359	0.1536		141	125	13.0	20.0
1,1-Dichloroethane	Ave	0.5984	0.5583	0.2000	23.3	25.0	-6.7	20.0
Vinyl acetate	Ave	0.6841	0.7303		133	125	6.8	20.0
2,2-Dichloropropane	Ave	0.3780	0.3157		20.9	25.0	-16.5	20.0
cis-1,2-Dichloroethene	Ave	0.3962	0.3571	0.1000	22.5	25.0	-9.9	20.0
2-Butanone (MEK)	Ave	0.1755	0.2046	0.1000	146	125	16.6	20.0
Chlorobromomethane	Ave	0.2073	0.1889		22.8	25.0	-8.9	20.0
Tetrahydrofuran	Ave	0.1215	0.1371		141	125	12.8	20.0
Chloroform	Ave	0.6213	0.5721	0.2000	23.0	25.0	-7.9	20.0
1,1,1-Trichloroethane	Ave	0.5024	0.4553	0.1000	22.7	25.0	-9.4	20.0
Cyclohexane	Ave	0.5271	0.4936	0.1000	23.4	25.0	-6.4	20.0
Carbon tetrachloride	Ave	0.4491	0.4198	0.1000	23.4	25.0	-6.5	20.0
1,1-Dichloropropene	Ave	0.4623	0.4213		22.8	25.0	-8.9	20.0
Benzene	Ave	1.323	1.242	0.5000	23.5	25.0	-6.1	20.0
1,2-Dichloroethane	Ave	0.4859	0.4670	0.1000	24.0	25.0	-3.9	20.0
Trichloroethene	Ave	0.3478	0.3180	0.2000	22.9	25.0	-8.6	20.0
Methylcyclohexane	Ave	0.5658	0.5127	0.1000	22.7	25.0	-9.4	20.0
1,2-Dichloropropane	Ave	0.3234	0.3148	0.1000	24.3	25.0	-2.7	20.0
Dibromomethane	Ave	0.2396	0.2263	0.1000	23.6	25.0	-5.6	20.0
Bromodichloromethane	Ave	0.4604	0.4531	0.2000	24.6	25.0	-1.6	20.0
2-Chloroethyl vinyl ether	Ave	0.2052	0.2351		143	125	14.6	20.0
cis-1,3-Dichloropropene	Ave	0.4909	0.5331	0.2000	27.1	25.0	8.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7650	0.8217	0.1000	134	125	7.4	20.0

APPENDIX E

WELL INSPECTION FORMS

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 11176716
DATE: 10/16/2013
TIME: 14:12
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: Thick vegetation surrounding well.

INTERIOR INSPECTION

WELL RISER: OK
ANULAR SPACE: OK
WELL CAP: OK
WATER LEVEL: 2.84
DEPTH TO BOTTOM: 17.26 HARD/SOFT BOTTOM Soft
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Tim Ifkovich SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 11176716
DATE: 10/16/2013
TIME: 13:18
WELL ID: MW-4

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: 2.50
DEPTH TO BOTTOM: 17.54 HARD/SOFT BOTTOM Soft
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Tim Spencer SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 11176716
DATE: 10/16/2013
TIME: 11:43
WELL ID: MW-16

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: 3.01
DEPTH TO BOTTOM: 11.62 HARD/SOFT BOTTOM Soft
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Tim Ghaziel SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 11176716
DATE: 10/15/2013
TIME: 16:10
WELL ID: SW-01S

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: 19.55
DEPTH TO BOTTOM: 28.39 HARD/SOFT BOTTOM Hard
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Tim Ifkovic SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 11176716
DATE: 10/15/2013
TIME: 15:00
WELL ID: SW-01D

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: 67.89
DEPTH TO BOTTOM: 83.87 HARD/SOFT BOTTOM Soft
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Tim Ostrowski SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176716

DATE: 10/15/2013

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: 12.40

DEPTH TO BOTTOM: 20.04 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Tim Sfkovich SIGNATURE APPROVAL:

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 11176716
DATE: 10/15/2013
TIME: 13:57
WELL ID: SW-02D

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: 70.42
DEPTH TO BOTTOM: 79.19 HARD/SOFT BOTTOM Soft
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Tim Sjhoval SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 11176716
DATE: 10/15/2013
TIME: 11:37
WELL ID: SW-03S

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, flush mount
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: 12.96
DEPTH TO BOTTOM: 18.81 HARD/SOFT BOTTOM Soft
OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Tim Hurd SIGNATURE APPROVAL:
LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176716

DATE: 10/16/2013

TIME: 10:18

WELL ID: SW-04S

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, flush mount

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: 3.35

DEPTH TO BOTTOM: 8.20 HARD/SOFT BOTTOM Hard

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: Tim Ffoxcil SIGNATURE APPROVAL:

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill
JOB#: 11176716
DATE: 10/16/2013
TIME: 9:10
WELL ID: SW-04D

EXTERIOR INSPECTION

PROTECTIVE CASING: OK, flush mount
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: 8.4 psi = 19.38 ft above measuring point
DEPTH TO BOTTOM: 84.42 HARD/SOFT BOTTOM Soft
OTHER:

COMMENTS: Artesian well.

SIGNATURE INSPECTOR: Tim Ekkerd SIGNATURE APPROVAL:
LOCK KEY # 2246

APPENDIX F

LANDFILL INSPECTION FORM

ROSE VALLEY LANDFILL SITE – POST CLOSURE

NYSDEC SITE NO. 6-22-017

INSPECTION LOG SHEET

Date: October 16, 2013 **Inspector:** Chuck Dusel

Weather: Sunny **Signature:** C. Dusel

Temperature: ~60° F **Company:** URS Corp

Type: Winter Spring Summer (Fall)
(Circle One)

Item Inspected	Maintenance Needed (Y/N)	Comments	Inspector's Initials
Drainage Channel	N	good shape	CD
Groundwater Monitoring Wells	N	sprayed WD-40 into all M. well locks.	CD
Perimeter Access Road	Y	Significant erosion is occurring in gravel access road which leads to Landfill	CD
Vegetative Cover	Y	Mowing should be scheduled for June 2014	CD.
Repaired Vegetation	N	N/A	CD.
Final Cover Layers (Cap Settlement, etc.)	N	good condition	CD
Gas Vents	N	good condition	
Fence and Gates	N	Gates were repaired summer 2013	CD.
Other Items: (Specify) access road on top of Landfill	Y	erosion is occurring and fabric has been exposed	CD.
Other Items: (Specify) site Jersey Barriers back entrance	Y	J. Barriers need to be repositioned and welded/fastned together	CD.
Install New barriers. ≈120 LF to restrict ATV access	Y	prevent erosion from ATV traffic	CD

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 None Stressed vegetation None Signs of erosion occurring at a localized change in grade Evidence of Breaching of toe None Animal burrows None Other:	entire cap was inspected	only erosion of concern is located North of cap between the North Detention Pond and the ATV hill. Took photos. In 2012 and July + Oct. 2013. This needs to be monitored - would be difficult to repair
Cap Vegetation and Repaired Vegetation	Areas of sparse, dead, or missing vegetation None Small rill erosion No Animal burrows No Other:	entire cap	Cap was mowed in July 2013. Very good stand of green vegetation. Will need mowing in June 2014
Drainage Channel	Missing or displaced stones None Woody vegetation growing in the stones or grass cover Minor	all channels were inspected	Minor weed & brush growing through stones in drainage channel
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:	All monitoring wells were inspected - see M.well inspection forms	WD-40 All locks - 10 M.wells were samples - and water level measurements were made

Fences, Gates and Perimeter Access Road	Cutting or bending of fence fabric No Missing locks, hinges, etc. from gates gates repaired Motorbike or snowmobile tracks yes Shotgun shell casings No Beer cans or other trash Other signs of access or vandalism Condition of access road surface Other:	Fence gates were damaged by vandals and repaired 7/22/13 by URS subcontractor Brady Fence Co.	Some tire tracks from ATV riding observed on Landfill access Road - recent C+D and trash disposal - see photos
Gas Vent	Integrity of pipes and joints good Plumbness and differential settlement OK Obstruction of vents by bird, insect or animal nests No Corrosion or deterioration of pipes or supports No Localized browning of vegetation None Other:	Spot checked several gas vents	good condition

APPENDIX G

2013 INTERMITTENT MAINTENANCE

CONSTRUCTION REPORTS
AND
PHOTO LOGS

PERIODIC INSPECTION REPORT
DATE: Wed., July 10, 2013

ROSE VALLEY LANDFILL
NYSDEC SITE No. 6-22-017

TEMPERATURE:	80's	**SKIES:**	Overcast
WIND:	Still	**PRECIPITATION:**	Light Rain

Periodic site visit to observe and document the following:

1. General cap conditions and mowing which is occurring today.

URS arrives on-site at 10:15 A.M. Meet with Michael Mason of the NYSDEC.

The NYSDEC and I conducted an inspection of the landfill during mowing by Marcy Excavation Services (MES). During the inspection of the landfill, the NYSDEC and URS observed the following:

- Multiple erosion rills, approximately 12 inches deep and up to 12-inched wide were observed along the main access road entering the site from Rose Valley Road.
- Trash and asphalt have been illegally dumped near the jersey barriers along Military Road (Photos 1 and 2). Several tires have also been illegally dumped in the ravine north of the landfill along Military Road (Photo 3). Trespassers have removed the double swing gate panels from the gate located at the southwest corner of the landfill to gain access for all terrain vehicles (ATV) riding. One gate panel was found lying in the grass next to the gate opening (Photo 4). The second gate panel was found lying up against the northern perimeter fence (Photo 7).
- Multiple erosion rills, approximately 10 inches deep, were discovered along the access road on top of the landfill (Photos 5 and 6), and also along the access road west of the landfill (Figure 13).
- With the exception noted below, the cap and storm water management system appear to be in excellent condition. The stone lining of the swales and down-chutes is exceptionally clean, with no evidence of high flows at all. No leaf litter or other debris is present in the channel lining.
- As noted initially during the August 9, 2012 site inspection and observed during this current inspection, the diversion channel around the north side of the landfill is head cutting, so that there is now an approximately 6-foot high vertical discontinuity in the channel bottom at about the mid-point of the landfill. There appears to be no significant change to the extent of the head cutting since the August 9, 2012 site inspection.
- It appears that the head cutting has been stopped by the geotextile that underlay the downstream end of the channel armor, of which a length of about 10 feet 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. The situation can be monitored by noting the tree in the center of Photo 11.

URS is off-site at 2:00 P.M.

Based upon the observations during this inspection, URS recommend the following corrective actions be taken:

- The addition and grading of crushed stone to the main access road from Rose Valley Road to maintain access to the site.
- The addition and grading of crushed stone to the access road on top of the landfill.
- The replacement and securing of the double swing gate panels from the gate located at the southwest corner of the landfill.
- The placement of jersey barriers across the access road at the western access gate to the landfill to inhibit ATV traffic. The ATV traffic has caused erosion rills to form on the access road.
- The grading of the access road west of the landfill.
- The repair of the diversion channel around the north side of the landfill.

PHOTO LOG – SEE ATTACHED 17 IMAGES.

PREPARED BY: Chuck Dusel TITLE: Project Manager

Photo 1: 07-10-13 Trash dumped on the northern side of the Jersey barrier between the barrier and Military Road.

Photo 2: 07-10-13 Trash and asphalt dumped along Military Road near the Jersey barrier.

Photo 3: 07-10-13 Tires continue to be discarded in ravine along Military Road. The NYSDEC had removed and disposed of several hundred discarded tires from this location. Note that the tires are slightly covered by silt and sand.

Photo 4: 07-10-13 The double swing gate located at the southwest corner of the landfill was removed. One side of the gate was found lying in the grass to the side of the gate opening.

Photo 5: 07-10-13 Looking northeast at top of landfill. Erosion rills approximately 10 inches deep are forming on the access road on top of the landfill.

Photo 6: 07-10-13 Looking southwest at top of landfill. Erosion rills approximately 10 inches deep are forming on the access road on top of the landfill.

Photo 7: 07-10-13 The double swing gate located at the southwest corner of the landfill was removed. One side of the gate was found lying against the western perimeter fence (center of picture).

Photo 8: 07-10-13 Looking downslope and east along the southern boundary of the landfill at the south stormwater detention pond.

Photo 9: 07-10-13 Looking west from the bottom of the landfill near the north stormwater management pond at a portion of the final cover that Marcy did not mow. Note that this is the area in which there were two slides during construction. Given the steepness of the slope, this area should be minimally maintained, only to correct any erosion that may occur (none was noted) and to remove woody vegetation.

Photo 10: 07-10-13 Marcy Excavation Services mowing the cap.

Photo 11: 07-10-13 Looking north at the approximate location of erosion (to the right of the tree) along the northern edge of the landfill.

Photo 12: 07-10-13 Looking north along the western perimeter fence and vandalism barrier.

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Photo 13: 07-10-13 Looking east towards top of landfill. Traffic from all-terrain vehicles are causing erosion rills to form on the access road.

Photo 14: 07-10-13 Looking northeast at main all-terrain vehicle recreation area/hill in background.

Photo 15: 07-10-13 Camp fire locations were discovered near the main all-terrain vehicle recreation area/hill.

Photo 16: 07-10-13 Temporary shelter located at top of all-terrain vehicle recreation area/hill.

Photo 17: 07-10-13 Looking south across the landfill from on top of the all-terrain vehicle recreation area/hill.