SITE MANAGEMENT

ANNUAL REPORT
2011 CALENDAR YEAR

WORK ASSIGNMENT D004440-26

ROSE VALLEY LANDFILL
RUSSIA (T)

SITE NO. 622017
HERKIMER (C), NY

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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Joseph Martens, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION

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November 2011

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2011 ANNUAL REPORT
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TOWN OF RUSSIA, HERKIMER COUNTY, NEW YORK

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77 GOODELL STREET

BUFFALO, NEW YORK 14203

NOVEMBER 2011

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1.0 INTRODUCTION

1.1 General

This Site Management Annual Report for 2011 has been prepared under New York State Department of Environmental Conservation (NYSDEC) URS Work Assignment No. D004440-26 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 second 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 was submitted 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 July 2011 in accordance with the Site Management Plan (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 samples 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 2011 monitoring activities is provided in Appendix A.

In order to extend the time frame for URS to perform long-term monitoring without additional funding, the Department took responsibility for the cost of analytical services through a call-out to TestAmerica-Buffalo, located in Amherst, NY.

3.1 Groundwater Hydraulic Monitoring

On July 12, 2011, synoptic 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. 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. 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. One of the deep wells east of the landfill is an artesian well (i.e., SW-04D), and efforts to measure the water column in April 2010 were unsuccessful. A deep well contour interval could not be created with two wells, therefore based on the recommendations in the 2010 Calendar Year Annual Report, monitoring wells MW-02, MW-14, MW-15 and MW-17 were added to the synoptic groundwater level measurement list in 2011. A potentiometric surface map based on the water level measurements from the shallow wells, using a 10.0-foot contour interval, is provided in Figure 3. A potentiometric surface map based on the water level measurements from the deep wells, using a 10.0-foot contour interval, is provided in Figure 4.

The shallow groundwater flow is to the east-northeast towards Military Road. The deep groundwater flow is in the same general direction.

3.2 Groundwater Sampling

On July 12 and 13, 2011, 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 1-liter 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-22 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

All groundwater samples were transported under chain-of custody (COC) to the TestAmerica Amherst, NY facility. 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

All analytical data (i.e., NYSDEC ASP Category B data deliverables) was received by URS on August 3, 2011. 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, on a compact disk (CD).

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 (10 µg/L, MW-04) and cis-1,2-dichloroethene (8.0 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. Results from the 2011 sampling event are consistent with the 2010 sampling event.

3.3 Surface Water/Detention Pond Sampling

On July 13, 2011, 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-22 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 samples were transported under COC to the TestAmerica Amherst, NY facility. The samples were analyzed for TCL VOCs plus TICs following USEPA SW846 Method 8260B.

3.3.1 Surface Water/Detention Pond Results

A summary of the detected compounds in surface water samples are provided in Table 4. No VOCs exceeded TOGS No. 1.1.1 Class C standards or guidance values in the surface water locations sampled, as shown on Figure 6. A historical summary of detected results in surface water is provided in Table 5. Table 6 lists criteria that require calculation, per TOGS No. 1.1.1 for Class C surface waters. Results from the 2011 sampling event are consistent with the 2010 sampling event.

4.0 SITE MAINTENANCE

4.1 Monitoring Well Inspections

During the 2011 groundwater sampling event, a well inspection was performed. All wells appeared to be in good condition. Locks, which were found to be either missing from the well casing or non-functional in the 2010 inspection, were installed during the 2011 inspection. URS keyed alike locks were used. The monitoring well inspection logs may be found in Appendix E.

4.2 Landfill Inspection

During the 2011 groundwater sampling event, a landfill inspection was performed by URS accompanied by NYSDEC personnel. A copy of the completed landfill inspection form can be found in Appendix F. The landfill cap components appeared to be in good condition with the following exceptions. Ruts approximately 6 inches deep were present in the gravel road on the landfill. The geotech fabric was exposed due to erosion alongside the main access road. Hogweed, a non-native invasive species was observed near the main gate. It was also noted that the quantity of silt and sediment in the detention ponds appears to have increased since the last site inspection. Trash (e.g., tires, metal, cardboard) has been dumped in the sand borrow area east of the landfill. Photographs taken during the landfill inspection can be found in Appendix C.

4.3 Maintenance Performed

The following subsections describe site maintenance activities.

4.3.1 Monitoring Well Maintenance

Other than the installation of new padlocks, no monitoring well maintenance was necessary or performed at the time this report was prepared.

4.3.2 Routine Maintenance

The 2010 Site Management Report was completed prior to the completion of all site maintenance activities for that year. The 2010 landfill cap mowing was performed on September 22, 2010 by Environmental Products and Services of Vermont, Inc. (EPS). URS was on site during the mowing activities. The mowing activities were documented on the construction report which may be found in Appendix G.

In July 2011, the Department requested URS to allocate funds in its budget for the cost of mowing in 2011 and provided URS with the solicitation records. URS submitted a letter to the NYSDEC on July 7, 2011 requesting the approval for the use of Marcy Excavation Services, LLC (Marcy) for mowing. The 2011 Landfill cap mowing was performed by Marcy on July 8 and 11, 2011. URS was not on site during the mowing activities. Visual inspection of the site on July 12, 2011 indicated the 2011 mowing was completed satisfactorily. No other routine maintenance was performed at the time this report was prepared.

4.3.3 Intermittent Maintenance

On September 22, 2010, EPS performed intermittent maintenance at the site. Maintenance included filling and regrading eroded areas, topsoil placement and seeding of non-road areas and placement of erosion mats in the areas repaired. A copy of the construction report and photographic log is provided in Appendix G. No intermittent maintenance was performed during 2011 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 flows in an east-northeast direction. In addition to the wells sampled, four more wells 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) exceed TOGS 1.1.1 Class GA standards and guidance values. There were no exceedances in the Sentry Wells. Historical results of the ten wells are provided in Table 3. The concentrations of detected VOCs are lower in 2010 when compared to the 2004 results. The concentrations of VOCs in the 2011 sampling event are consistent with the 2010 sampling event results.

5.3 Surface Water/Detention Pond Quality Monitoring

No VOCs were detected in the four surface water locations at concentrations that exceeded the TOGS 1.1.1 Class C surface water standards and guidance values. Historical data from the surface water sampling locations is provided in Table 5.

5.4 Monitoring Well Maintenance

Other than replacing locks, no maintenance was necessary for the monitoring wells.

5.5 Landfill Maintenance

The landfill was mowed on September 22, 2010 and July 9-11, 2011. On September 22, 2010 corrective action was taken to mitigate the erosion observed in April 2010. In July 2011, 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, approximately 6 inches deep, have formed in the gravel on the landfill road. Trash has been dumped in the sand borrow area east of the landfill. Corrective action will be necessary to mitigate the erosion and to remove the trash. All landfill cap components appeared to be sound.

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	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		
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		
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		
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		
MW-15	1602594.762	356379.221			1312.36	B						
WL							8/17/2004 1625	85.85	1226.51	0.00		
WL							7/12/2011 1507	87.76	1224.60	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		
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		
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		

NM - No Measurement

Geologic Zone:

A Shallow Unconfined Aquifer

B Deep Unconfined Aquifer

Filter = (((tblGWD.LOCID) Like "*sw*" Or (tblGWD.LOCID)="MW-02" Or (tblGWD.LOCID)="mw-03" Or (tblGWD.LOCID)="mw-04" Or (tblGWD.LOCID)="mw-14" Or (tblGWD.LOCID)="mw-15" Or (tblGWD.LOCID)="mw-16" Or (tblGWD.LOCID)="mw-17"))

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	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
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		
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		
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		
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		
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
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		

NM - No Measurement

Geologic Zone:
A Shallow Unconfined Aquifer
B Deep Unconfined Aquifer

Filter = (((tblGWD.LOCID) Like "sw*" Or (tblGWD.LOCID)="MW-02" Or (tblGWD.LOCID)="mw-03" Or (tblGWD.LOCID)="mw-04" Or (tblGWD.LOCID)="mw-14" Or (tblGWD.LOCID)="mw-15" Or (tblGWD.LOCID)="mw-16" Or (tblGWD.LOCID)="mw-17"))

Printed: 11/2/2011 9:16:19 AM
I:\11176167\DB\EDMS.mde/Groundwater Lev

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN 2011 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	FD-071211
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/13/11	07/13/11	07/13/11	07/12/11	07/12/11
Parameter	Units	*					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1-Dichloroethane	UG/L	5	2.2	10			
1,2-Dichloroethene (cis)	UG/L	5	8.0	2.4			
Chloroethane	UG/L	5		0.35 J			

*- 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 2011 GROUNDWATER SAMPLES
ROSE VALLEY LANDFILL

Location ID			SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Sample ID			SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/12/11	07/12/11	07/12/11	07/12/11	07/13/11
Parameter	Units	*					
Volatile Organic Compounds							
1,1-Dichloroethane	UG/L	5					
1,2-Dichloroethene (cis)	UG/L	5					
Chloroethane	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 2011 GROUNDWATER SAMPLES
ROSE VALLEY LANDFILL

Location ID			SW-04S
Sample ID			SW-04S
Matrix			Groundwater
Depth Interval (ft)			-
Date Sampled			07/13/11
Parameter	Units	*	
Volatile Organic Compounds			
1,1-Dichloroethane	UG/L	5	
1,2-Dichloroethene (cis)	UG/L	5	
Chloroethane	UG/L	5	0.48 J

*- 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 3
SUMMARY OF HISORICALLY DETECTED COMPOUNDS IN GROUNDWATER SAMPLES
ROSE VALLEY LANDFILL

Location ID			MW-03	MW-03	MW-03	MW-04	MW-04
Sample ID			MW-03	MW-03	MW-03	MW-04	MW-04
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/19/04	04/21/10	07/13/11	08/19/04	04/21/10
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5	4 J	2.3	2.2	16	9.3
1,2-Dichloroethene (cis)	UG/L	5	16	7.1	8.0	3 J	2.3
Chloroethane	UG/L	5					
Dichlorodifluoromethane	UG/L	5		0.75 J.			0.86 J
Metals							
Aluminum	UG/L	-	164 B		NA	131 B	
Antimony	UG/L	3	3.7 B		NA		
Arsenic	UG/L	25			NA		
Barium	UG/L	1000	60.4 B	47.6	NA	17.2 B	16.0
Cadmium	UG/L	5	0.25 B		NA		
Calcium	UG/L	-	220,000	225,000	NA	156,000	171,000
Chromium	UG/L	50			NA		
Cobalt	UG/L	-	2.0 B		NA	1.1 B	
Copper	UG/L	200			NA	1.5 B	
Iron	UG/L	300	918	252	NA	1,190	1,050
Magnesium	UG/L	35000	23,500	18,600	NA	26,800	31,700
Manganese	UG/L	300	2,210 J	2,450	NA	304 J	525
Nickel	UG/L	100	5.6 B		NA	13.5 B	
Potassium	UG/L	-	3,950 B	3,320	NA	1,070 B	1,130
Silver	UG/L	50			NA		
Sodium	UG/L	20000	5,940	3,800	NA	16,600	14,100
Vanadium	UG/L	-			NA		
Zinc	UG/L	2000			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.

NA - Not Analyzed.

Only Detected Results Reported.

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

Location ID			MW-04	MW-16	MW-16	MW-16	SW-01D
Sample ID			MW-04	MW-16	MW-16	MW-16	SW-1D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/13/11	08/18/04	04/21/10	07/13/11	08/17/04
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5	10				
1,2-Dichloroethene (cis)	UG/L	5	2.4				
Chloroethane	UG/L	5	0.35 J				
Dichlorodifluoromethane	UG/L	5					
Metals							
Aluminum	UG/L	-	NA	964 J		NA	
Antimony	UG/L	3	NA			NA	
Arsenic	UG/L	25	NA	3.5 B		NA	
Barium	UG/L	1000	NA	59.6 B	31.0	NA	61.9 B
Cadmium	UG/L	5	NA	1.0 B		NA	0.24 B
Calcium	UG/L	-	NA	88,400	77,900	NA	17,500
Chromium	UG/L	50	NA			NA	1.6 B
Cobalt	UG/L	-	NA	1.0 B		NA	0.54 B
Copper	UG/L	200	NA			NA	0.96 B
Iron	UG/L	300	NA	17,100	16,600	NA	65.4 B
Magnesium	UG/L	35000	NA	9,330	8,150	NA	9,700
Manganese	UG/L	300	NA	1,260 J	1,090	NA	8.3 B
Nickel	UG/L	100	NA			NA	1.6 B
Potassium	UG/L	-	NA	1,080 B		NA	1,780 B
Silver	UG/L	50	NA	2.0 BJ		NA	
Sodium	UG/L	20000	NA	9,150	5,800	NA	15,200
Vanadium	UG/L	-	NA	2.5 B		NA	
Zinc	UG/L	2000	NA	8.7 B		NA	11.0 B

*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.

NA - Not Analyzed.

Only Detected Results Reported.

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

Location ID			SW-01D	SW-01D	SW-01D	SW-01S	SW-01S
Sample ID			DUP-2	SW-01D	SW-01D	SW-1S	SW-01S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/21/10	04/21/10	07/12/11	08/17/04	04/21/10
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	215	5,830
Antimony	UG/L	3			NA		
Arsenic	UG/L	25			NA		
Barium	UG/L	1000	71.2	70.2	NA	27.3 B	33.4
Cadmium	UG/L	5			NA	0.56 B	
Calcium	UG/L	-	28,600	27,600	NA	146,000	109,000
Chromium	UG/L	50			NA	11.2	6.9
Cobalt	UG/L	-			NA	1.3 B	
Copper	UG/L	200			NA	4.0 B	
Iron	UG/L	300	292 J	631 J	NA	R	3,700
Magnesium	UG/L	35000	14,000	13,500	NA	4,430 B	4,000
Manganese	UG/L	300	8.8	11.8	NA	R	50.5
Nickel	UG/L	100			NA	6.3 B	
Potassium	UG/L	-	1,940	1,890	NA	1,520 B	2,080
Silver	UG/L	50			NA	0.41 B	
Sodium	UG/L	20000	10,200	9,900	NA	3,050 B	2,100
Vanadium	UG/L	-			NA		6.6
Zinc	UG/L	2000			NA	14.4 B	

*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.

NA - Not Analyzed.

Only Detected Results Reported.

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

Location ID			SW-01S	SW-01S	SW-02D	SW-02D	SW-02D
Sample ID			FD-071211	SW-01S	SW-2D	SW-02D	SW-02D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/12/11	07/12/11	08/16/04	04/22/10	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		443	NA
Antimony	UG/L	3	NA	NA			NA
Arsenic	UG/L	25	NA	NA			NA
Barium	UG/L	1000	NA	NA	84.4 B	65.7	NA
Cadmium	UG/L	5	NA	NA	0.25 B		NA
Calcium	UG/L	-	NA	NA	44,100	62,800	NA
Chromium	UG/L	50	NA	NA	3.0 B	4.1	NA
Cobalt	UG/L	-	NA	NA	0.55 B		NA
Copper	UG/L	200	NA	NA	5.6 B		NA
Iron	UG/L	300	NA	NA	51.2 B	433	NA
Magnesium	UG/L	35000	NA	NA	19,800	22,300	NA
Manganese	UG/L	300	NA	NA	2.8 B	10.2	NA
Nickel	UG/L	100	NA	NA	3.3 B		NA
Potassium	UG/L	-	NA	NA	9,580	1,870	NA
Silver	UG/L	50	NA	NA			NA
Sodium	UG/L	20000	NA	NA	11,300	7,500	NA
Vanadium	UG/L	-	NA	NA			NA
Zinc	UG/L	2000	NA	NA	11.7 B		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.

NA - Not Analyzed.

Only Detected Results Reported.

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

Location ID			SW-02S	SW-02S	SW-02S	SW-03S	SW-03S
Sample ID			SW-2S	SW-02S	SW-02S	SW-3S	SW-03S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth interval (ft)			-	-	-	-	-
Date Sampled			08/16/04	04/22/10	07/12/11	08/16/04	04/22/10
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	3 J	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	-	250		NA	197 B	
Antimony	UG/L	3			NA		
Arsenic	UG/L	25			NA		
Barium	UG/L	1000	16.2 B	2.9	NA	27.6 B	8.8
Cadmium	UG/L	5			NA	0.29 B	
Calcium	UG/L	-	53,500	57,400	NA	95,400	74,400
Chromium	UG/L	50	3.5 B		NA	2.3 B	
Cobalt	UG/L	-	0.79 B		NA	0.78 B	
Copper	UG/L	200	4.3 B		NA	4.3 B	
Iron	UG/L	300	R		NA	R	
Magnesium	UG/L	35000	2,670 B	2,240	NA	4,380 B	3,040
Manganese	UG/L	300	R		NA	R	
Nickel	UG/L	100	2.9 B		NA	2.3 B	
Potassium	UG/L	-	444 B		NA	2,640 B	1,910
Silver	UG/L	50			NA		
Sodium	UG/L	20000	746 B	1,000	NA	63,500	22,600
Vanadium	UG/L	-			NA		
Zinc	UG/L	2000	11.5 B		NA	21.4	

*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.

NA - Not Analyzed.

Only Detected Results Reported.

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

Location ID			SW-03S	SW-04D	SW-04D	SW-04D	SW-04S
Sample ID			SW-03S	SW-04D	SW-04D	SW-04D	SW-04S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/12/11	08/18/04	04/21/10	07/13/11	08/18/04
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	1,120 J	1,800	NA	914 J
Antimony	UG/L	3	NA			NA	
Arsenic	UG/L	25	NA			NA	
Barium	UG/L	1000	NA	18.4 B	14.7	NA	123 B
Cadmium	UG/L	5	NA		2.4	NA	0.68 B
Calcium	UG/L	-	NA	10,700	12,200	NA	105,000
Chromium	UG/L	50	NA	1.1 B		NA	59.5
Cobalt	UG/L	-	NA	0.81 B		NA	2.2 B
Copper	UG/L	200	NA			NA	4.8 B
Iron	UG/L	300	NA	1,360	1,630	NA	3,040
Magnesium	UG/L	35000	NA	1,750 B	1,960	NA	11,200
Manganese	UG/L	300	NA	36.1 J	38.7	NA	775 J
Nickel	UG/L	100	NA	1.2 B		NA	43.1 J
Potassium	UG/L	-	NA	1,160 B	1,170	NA	6,150 J
Silver	UG/L	50	NA			NA	
Sodium	UG/L	20000	NA	32,700	32,000	NA	11,700
Vanadium	UG/L	-	NA	1.8 B		NA	2.2 B
Zinc	UG/L	2000	NA	5.5 B		NA	12.6 B

*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.

NA - Not Analyzed.

Only Detected Results Reported.

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

Location ID			SW-04S	SW-04S
Sample ID			SW-04S	SW-04S
Matrix			Groundwater	Groundwater
Depth Interval (ft)			-	-
Date Sampled			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		
1,2-Dichloroethene (cis)	UG/L	5		
Chloroethane	UG/L	5		0.48 J
Dichlorodifluoromethane	UG/L	5		
Metals				
Aluminum	UG/L	-	336	NA
Antimony	UG/L	3		NA
Arsenic	UG/L	25		NA
Barium	UG/L	1000	26.1	NA
Cadmium	UG/L	5		NA
Calcium	UG/L	-	92,700	NA
Chromium	UG/L	50		NA
Cobalt	UG/L	-		NA
Copper	UG/L	200		NA
Iron	UG/L	300	8,870	NA
Magnesium	UG/L	35000	6,900	NA
Manganese	UG/L	300	2,080	NA
Nickel	UG/L	100		NA
Potassium	UG/L	-	1,940	NA
Silver	UG/L	50		NA
Sodium	UG/L	20000	4,300	NA
Vanadium	UG/L	-		NA
Zinc	UG/L	2000		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.

NA - Not Analyzed.

Only Detected Results Reported.

TABLE 4
SUMMARY OF DETECTED COMPOUNDS IN 2011 SURFACE / DETENTION POND WATER SAMPLES
ROSE VALLEY LANDFILL

Location ID			NDP	NDP	SDP	SWTR-1E	SWTR-1T
Sample ID			FD-071311	NDP-WS	SDP-WS	SWTR-1E	SWRT-1T
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/13/11	07/13/11	07/13/11	07/13/11	07/13/11
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatile Organic Compounds							
Acetone	UG/L	-					20 J
Benzene	UG/L	10					1.8 J
Chlorobenzene	UG/L	5					3.3 J

*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

- = No standard or guidance value.

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

Only Detected Results Reported.

I:\11176167\DB\EDMS.mdb
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[MATRIX] = 'WS' AND [LOGDATE] >= #7/12/2011#

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

Location ID			NDP	NDP	NDP	SDP	SDP
Sample ID			NDP	FD-071311	NDP-WS	DUP-1	SDP
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	04/20/10	04/20/10
Parameter	Units	Criteria*		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	1,570	1,460
Barium	UG/L	-	32.5	NA	NA	51.8	49.7
Calcium	UG/L	-	123,000	NA	NA	77,200	74,600
Cobalt	UG/L	5		NA	NA		
Iron	UG/L	300	1,650	NA	NA	2,790	2,360
Magnesium	UG/L	-	15,900	NA	NA	16,200	15,800
Manganese	UG/L	-	720	NA	NA	101 J	71.3 J
Nickel	UG/L	calc, diss		NA	NA		
Potassium	UG/L	-	3,700	NA	NA	7,760	7,650
Sodium	UG/L	-	4,000	NA	NA	6,200	6,100
Miscellaneous Parameters							
Hardness (calculated)	MG/L	-	373	NA	NA	259	251

*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

- = No standard or guidance value.

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

NA - Not Analyzed.

Calculated standards are shown on Table 6.

Only Detected Results Reported.

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

Location ID			SDP	SWTR-1E	SWTR-1E	SWTR-1T	SWTR-1T
Sample ID			SDP-WS	SWTR-1E	SWTR-1E	SWTR-1T	SWRT-1T
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/13/11	04/20/10	07/13/11	04/21/10	07/13/11
Parameter	Units	Criteria*					
Volatile Organic Compounds							
Acetone	UG/L	-				9.4	20 J
Benzene	UG/L	10					1.8 J
Chlorobenzene	UG/L	5				0.75 J	3.3 J
Metals							
Aluminum	UG/L	100 ionic	NA		NA		NA
Barium	UG/L	-	NA	22.3	NA	117	NA
Calcium	UG/L	-	NA	88,400	NA	122,000	NA
Cobalt	UG/L	5	NA		NA	7.1	NA
Iron	UG/L	300	NA	230	NA	10,500	NA
Magnesium	UG/L	-	NA	12,800	NA	26,100	NA
Manganese	UG/L	-	NA	25.4	NA	385	NA
Nickel	UG/L	calc, diss	NA		NA	12.0	NA
Potassium	UG/L	-	NA	5,570	NA	70,800	NA
Sodium	UG/L	-	NA	6,600	NA	65,400	NA
Miscellaneous Parameters							
Hardness (calculated)	MG/L	-	NA	273	NA	412	NA

*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

- = No standard or guidance value.

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

NA - Not Analyzed.

Calculated standards are shown on Table 6.

Only Detected Results Reported.

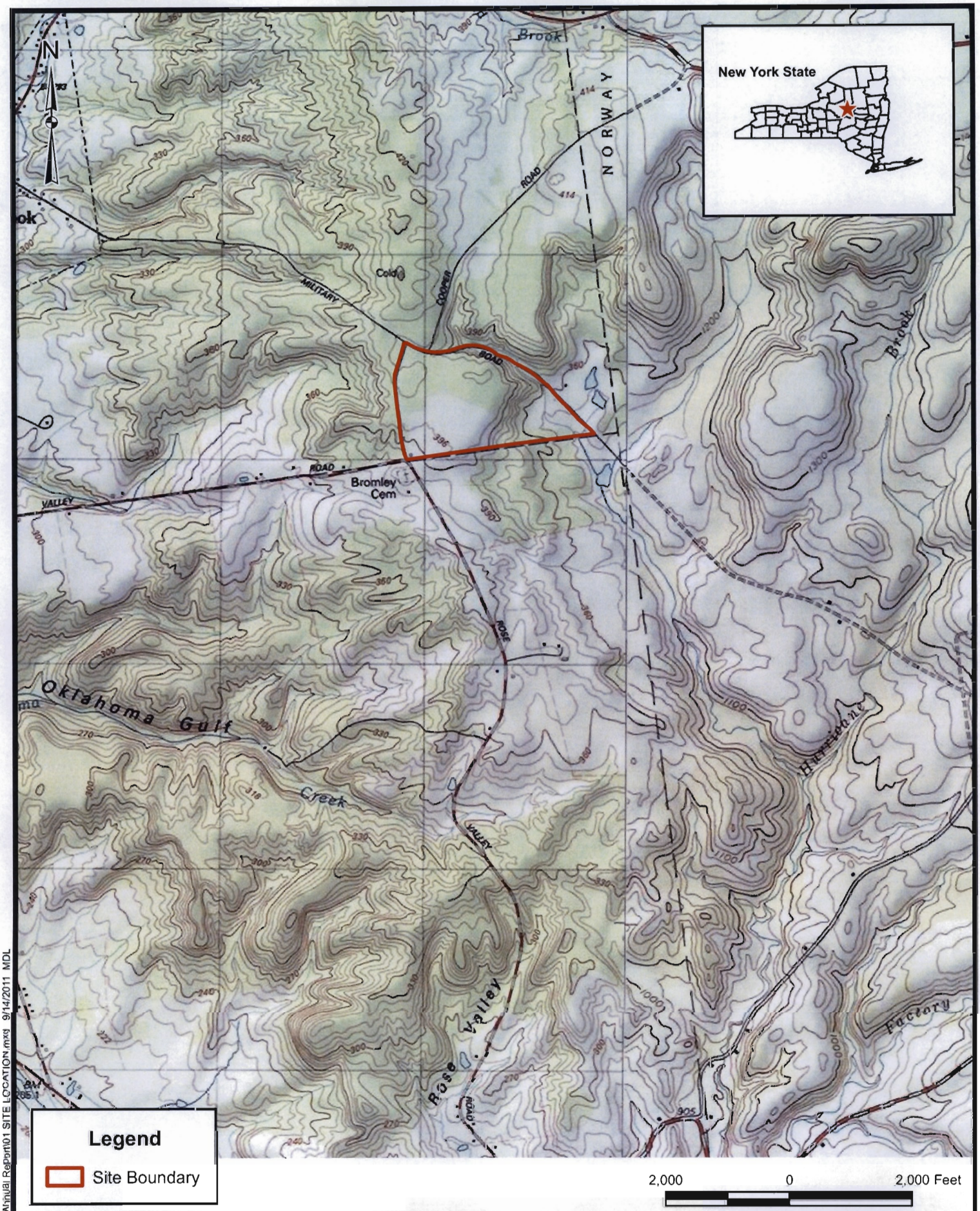
TABLE 6
SUMMARY OF HISTORICALLY DETECTED COMPOUNDS IN SURFACE WATER
CRITERIA FOR CLASS C SURFACE WATERS REQUIRING CALCULATION
ROSE VALLEY LANDFILL

		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.

FIGURES



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ROSE VALLEY LANDFILL
SITE LOCATION

FIGURE 1

I:\11176167\GIS\2011 Annual Report\01 SITE LOCATION.mxd 9/14/2011 MDL

Legend

- Groundwater Monitoring Well
- Residential Buildings

300 0 300 Feet

ROSE VALLEY LANDFILL
SITE PLAN

URS

FIGURE 2

I:\11176167\GIS\2011 Annual Report\02 SITE PLAN.mxd 9/14/2011 MDL

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)
JULY 12, 2011

URS

FIGURE 3

I:\11176167\GIS\2011 Annual Report\03 GW CONTOURS SHALLOW 110712.mxd 9/14/2011 MDL

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)
JULY 12, 2011

URS

FIGURE 4

I:\11176167\GIS\2011 Annual Report\04 GW CONTOURS DEEP 110712.mxd 9/14/2011 MDL

Legend

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

Location ID | Sample Date

MW-04	TOGS	7/11
VOCs:		
1,1-Dichloroethane	5	10

Compound | Criteria Value | Concentration

Note:
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\2011 Annual Report\05 WGRES.mxd 9/14/2011 MDL

Legend

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

Location ID	Sample Date
MW-04	TOGS | 7/11
VOCs:	
1,1-Dichloroethane	5 | 10

Compound | Criteria Value | Concentration

Note:
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

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APPENDIX A

FIELD NOTES

Location _____ Date 7/13/11

Project / Client _____

1500 Sample North Detention pond
ID: NDP-SW
Time: 1500
Analysis: TCL VOC + TICs.
3-40ml vials
- collect Field Duplicate sample by
FD-071311
1530 Sample SWTR-1T
ID SWTR-1T
Time 1530
Analysis: TCL VOC + TICs.
3-40ml vials w/HCL.
1545 Sample South Detention Pond.
ID SDP-SW
Time: 1545
Analysis: TCL VOC + TICs
3-40ml vials
- 1545 Heavy Rain starts. Return to van/trailer to wait out the rain prior to performing Landfill inspection.
- NOTE Landfill Been 7/2/11 - 7/11/11.

Location _____ Date 7/13/11

Project / Client _____

Noteworthy comments on inspection
→ Hogweed present by main gate. NM Aware.
- Severe erosion (down to geotech fabric) along main access road.
- moderate erosion on road (gravel) on Landfill. rills up to 6" deep
- Detention ponds within usually have silt/sand infilling than previous years.
- signs of seepage to north of north detention pond.
- garbage dumped (ie, tires, metal, cardboard) for the north east of Landfill on sand borrow area.
1800 SM & C.D off site

Location _____ Date 7/13/14

Project / Client _____

0800 S.M, C.D & M.M Arrive on site.

Weather: partly cloudy 81°F.

- unpack Pump & Clean up Equipment

Calibrate Horiba U-22

	Actual	Reads
ph	4.0	3.99
cond	4.49	4.48
URB	0.0	0.0

0900 Set up to purge SW-04S

0930 Sample SW-04S

ID: SW-04S

Time: 0930

Analysis: TCL VOC + TICs

3- 40 ml vials w/ HCL

- Collect MS/MSD at SW-04S.

0945 Set up on SW-04D

1040 Sample SW-04D

ID: SW-04D

Time: 1040

Analysis: TCL VOC + TICs

3- 40 ml vial w/ HCL

Location _____ Date 7/13/14

Project / Client _____

1055 Collect Sample from SWTR-1R

ID SWTR-1R

Time 1055

Analysis: TCL VOC + TICs

3- 40 ml vial w/ HCL.

- Collect MS/MSD samples at SWTR-1R

1100 Set up on MW-16

1155 Collect Sample from MW-16

ID: MW-16

Time: 1155

Analysis: TCL VOC + TICs

3- 40ml vial w/ HCL.

1230 Set up on MW-04

1310 Sample MW-04

ID: MW-04

Time: 1310

Analysis: TCL VOC + TICs

3- 40ml vials w/ HCL.

1330 Set up on MW-03

1430 Sample MW-03

ID. MW-03

Time 1430

Analysis - TCL VOC + TICs 3-40ml vial w/ HCL

:2

Location RVLF Date 7/12/11

Project / Client

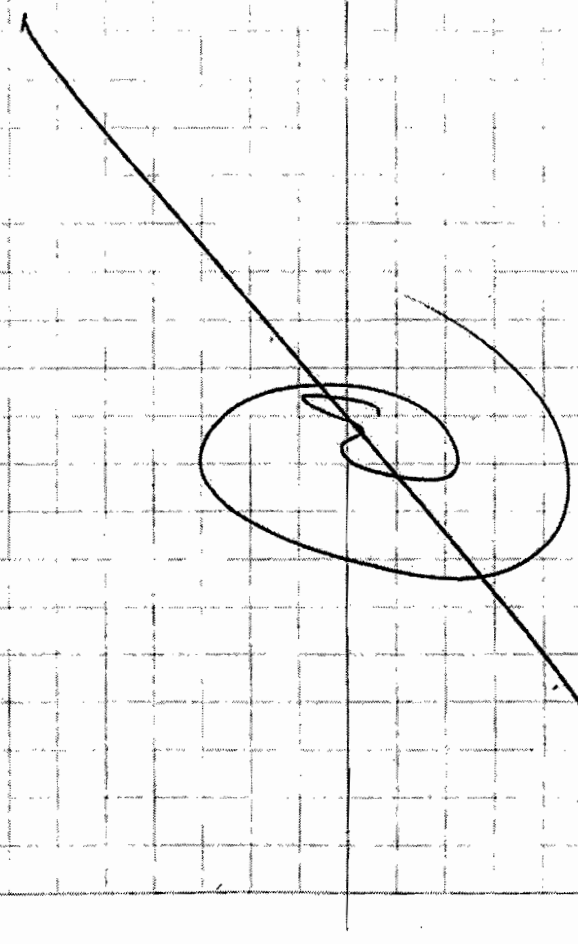
1645 Begin to purge SW-01D
1730 Sample SW-01D
ID: SW-01D
Time 1730
Analysis - TCL VOC + TICs
3 - 40ml vials w/ HCL
1745 Begin to purge SW-03S
1800 Sample SW-03S.
ID: SW-03S
Time 1800
Analysis - TCL VOC + TICs
3 - 40ml Vial w/ HCL
1825 Begin to purge SW-02S.
1840 Sample SW-02S
ID: SW-02S
Time 1840
Analysis TCL VOC + TICs
3 - 40ml Vial w/ HCL
1850 Begin to purge SW-02D
1920 Sample SW-02D
ID SW-02D
Time 1920
Analysis TCL VOC + TICs
3 - 40 ml Vials w/ HCL.

Location RVLF Date 7/12/11 29

Project / Client

1940 Load up Personal Equipment on Trailer

2000 off site



Location Rose Valley LF Date 7/12/11

Project / Client

0600 LEAVE BUFFALO FOR Rose Valley
wx: partly cloudy, 81°F
0630 Pick up C.D. SM & C.D leave
FOR Rose Valley.
1100 S.M & C.D meet Mike Mason in
Pound, NY.
1230 SM, C.D & M.M arrive at site
& clear vegetation from gate
with Machete's.
- Goto perform Synoptic Round W.L.
1643 Set up on SW-01S
Calibrate U-22 w/ Flow cell

	Actual	Reads
pH	4.0	3.97
cond	4.49	4.50
Turb	0.0	0.0

Cal ok.
1630 Sampler SW-01S
ID: SW-01S
Time 1630
Analysis: TCL VOC + TICs
3 - 40mL w/ HCL
Collect: Field Dup
ID: FD-071211

Location RVLF Date 7/12

Project / Client

Water levels.

ID	DTW	DTB	Time	Comments
MW-03	3.01	17.25	13:35	thick Veg
MW-04	2.54	17.55	13:45	sensor
MW-16	3.56	11.60	14:00	
SW-01S	18.56	28.40	14:35	
SW-01D	67.37	83.90	14:37	
SW-02S	11.30	20.05	14:48	
SW-02D	70.73	79.16	1450	
SW-04S	3.40	8.22	14:20	
SW-04D	artesian	83.35	14:15	artesian
SW-03S	11.85	18.77	14:40	
Additional wells				
MW-02	57.55	76.45	13:13	ants
MW-15	87.76	90.65	15:07	
MW-17	86.69	98.79	15:05	
MW-14	98.55	109.20	15:20	

Note: SW-04D is 18' uphill of SW-04S
- Flag road access (FR) from SW-04.
- Access Plum road for access path to
MW-16.

APPENDIX B

MONITORING WELL PURGE LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176167.00002 Site: Rose Valley Landfill Well #: MW-3

Sampling Personnel: C. Dusel, S. McCabe Date: 7/13/11 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 3.01 Depth to Well Bottom: 17.25 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 8.79 Estimated Purge Volume (liters): 9.0

Sample ID: MW-03 Sample Time: 1430 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1354	6.62	8.84	1.22	1.38	84.5	-15	250	3.01
1358	6.59	8.96	1.22	1.12	64.1	-15	250	3.03
1402	6.59	8.87	1.22	0.96	55.4	-11	250	3.03
1416	6.57	8.83	1.21	0.31	41.1	-9	250	3.05
1410	6.57	8.82	1.21	0.0	36.1	-8	250	3.05
1414	6.56	8.76	1.21	0.0	15.4	-7	250	3.06
1418	6.52	8.50	1.21	0.0	4.17	-8	250	3.05
1422	6.55	8.53	1.21	0.0	1.48	-11	250	3.06
1426	6.51	8.50	1.21	0.0	0.93	-13	250	3.05
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

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

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176167.00002 Site: Rose Valley Landfill Well #: MW-4

Sampling Personnel: C. Dusel, S. McCabe Date: 7/13/11 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 2.52 Depth to Well Bottom: 17.55 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 9.27 Estimated Purge Volume (liters): 10.8

Sample ID: MW-04 Sample Time: 1310 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1230	7.01	8.84	0.845	1.04	31.0	-62	300	2.52
1234	6.88	8.94	0.831	0.47	13.9	-52	300	2.59
1238	6.86	9.04	0.827	0.34	4.73	-42	300	2.63
1242	6.87	9.06	0.826	0.29	7.91	-41	300	2.64
1246	6.90	9.13	0.824	0.14	3.66	-40	300	2.68
1250	6.93	9.17	0.824	0.10	4.69	-37	300	2.69
1254	6.92	9.34	0.824	0.06	1.75	-36	300	2.71
1258	6.90	9.30	0.824	0.05	0.04	-35	300	2.75
1302	6.87	8.91	0.823	0.02	0.0	-34	300	2.79
1306	6.90	9.01	0.823	0.01	0.0	-36	300	2.83
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: 11176167.00002 Site: Rose Valley Landfill Well #: MW-16

Sampling Personnel: C. Dusel, S. McCabe Date: 7/13/11 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 3.50 Depth to Well Bottom: 11.60 Well Diameter: 2" Screen Length: 8'

Casing Type: PVC Volume in 1 Well Casing (liters): 5.00 Estimated Purge Volume (liters): 6.0

Sample ID: MW-16 Sample Time: 1155 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1100	6.81	9.90	0.407	0.12	36.1	-122	200	3.50
1110	6.76	10.08	0.408	0.0	14.5	-124	100	4.71
1120	6.76	9.76	0.410	0.0	3.7	-126	100	6.35
1130	6.76	9.59	0.408	0.0	0.0	-127	100	6.91
1140	6.80	9.89	0.406	0.0	0.0	-129	100	7.23
1150	6.80	9.89	0.409	0.0	0.0	-128	100	7.39
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

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

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176167.00002 Site: Rose Valley Landfill Well #: SW-01S

Sampling Personnel: C. Dusel, S. McCabe Date: 7/12/11 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 18.56 Depth to Well Bottom: 28.40 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 6.07 Estimated Purge Volume (liters): 7.0

Sample ID: SW-01S Sample Time: 1630 QA/QC: FD-071211

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1600	6.29	7.07	0.561	11.38	65.9	183	250	18.56
1604	6.33	7.52	0.562	11.13	2.07	185	250	18.56
1608	6.35	7.53	0.551	10.90	3.22	184	250	18.59
1612	6.35	7.50	0.563	10.52	4.66	189	250	18.61
1616	6.35	7.37	0.566	10.53	4.74	190	250	18.64
1620	6.36	7.69	0.568	10.29	4.71	191	250	18.69
1624	6.36	7.78	0.561	10.34	5.13	192	250	18.71
1628	6.36	7.72	0.569	10.35	5.46	194	250	18.73
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

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

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11176167.00002 Site: Rose Valley Landfill Well #: SW-01D

Sampling Personnel: C. Dusel, S. McCabe Date: 7/12/11 Company: URS Corporation

Purging/ Sampling Device: RediFlow 2 Tubing Type: HDPE Tubing Inlet: Screen Midpoint

Measuring Point: TOC Initial Depth to Water: 67.37 Depth to Well Bottom: 83.90 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 10.20 Estimated Purge Volume (liters): 10.0

Sample ID: SW-01D Sample Time: 1730 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	0.29	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1645	7.60	9.63	0.243	1.81	11.5	-19	250	67.37
1649	7.63	11.10	0.243	1.36	6.48	-25	250	67.44
1653	7.64	11.99	0.243	1.13	4.46	-31	250	67.45
1657	7.65	12.13	0.246	0.99	4.14	-41	250	67.51
1701	7.65	12.38	0.246	0.81	2.02	-49	250	67.55
1705	7.64	12.55	0.246	0.87	0.48	-54	250	67.57
1709	7.66	12.61	0.246	0.67	0.27	-65	250	67.58
1713	7.66	13.90	0.245	0.59	0.36	-69	250	67.60
1717	7.67	12.86	0.246	0.52	0.80	-72	250	67.63
1721	7.67	12.73	0.246	0.41	0.88	-76	250	67.65
1725	7.67	12.67	0.245	0.44	0.34	-75	250	67.69
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: 11176167.00002 Site: Rose Valley Landfill Well #: SW-02S

Sampling Personnel: C. Dusel, S. McCabe Date: 7/12/11 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 11.30 Depth to Well Bottom: 20.05 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 5.40 Estimated Purge Volume (liters): 8.4

Sample ID: SW-02S Sample Time: 1840 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1825	7.45	8.00	0.257	13.60	98	116	600	11.30
1827	7.40	8.02	0.244	13.01	13.1	117	600	11.31
1829	7.39	7.96	0.239	12.97	4.27	118	600	11.31
1831	7.38	8.21	0.230	12.70	0.91	120	600	11.32
1833	7.37	8.19	0.228	12.68	0.07	121	600	11.32
1835	7.36	8.15	0.229	12.70	0.11	122	600	11.33
1837	7.35	8.14	0.225	12.62	0.13	122	600	11.32
1839	7.34	8.16	0.223	12.55	0.16	123	600	11.32
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: 11176167.00002 Site: Rose Valley Landfill Well #: SW-02D

Sampling Personnel: C. Dusel, S. McCabe Date: 7/12/11 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 70.73 Depth to Well Bottom: 79.16 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 5.20 Estimated Purge Volume (liters): 7.3

Sample ID: SW-02D Sample Time: 1920 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1850	7.43	10.10	0.409	3.28	14.0	6	250	70.73
1854	7.42	11.98	0.400	2.95	13.5	6	250	70.80
1859	7.44	12.37	0.403	2.91	5.1	9	250	70.81
1903	7.47	12.72	0.406	2.81	3.7	11	250	70.79
1907	7.48	12.86	0.405	2.78	3.2	13	250	70.77
1911	7.49	12.95	0.406	2.76	4.6	12	250	70.77
1915	7.49	12.97	0.406	2.74	1.8	10	250	70.77
1919	7.50	13.10	0.405	2.69	0.8	12	250	70.77
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: 11176167.00002 Site: Rose Valley Landfill Well #: SW-03

Sampling Personnel: C. Dusel, S. McCabe Date: 7/12/11 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 11.85 Depth to Well Bottom: 18.77 Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 4.27 Estimated Purge Volume (liters): 8.4

Sample ID: SW-03S Sample Time: 1800 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1745	7.13	9.16	0.873	12.08	176	104	600	11.85
1747	7.07	9.00	0.800	13.11	73	107	600	11.91
1749	7.04	9.06	0.777	13.35	26	107	600	11.91
1751	7.03	8.86	0.747	12.38	12.8	111	600	11.91
1753	7.01	8.96	0.743	11.81	9.51	113	600	11.91
1755	6.99	8.94	0.716	11.70	10.80	114	600	11.91
1757	6.98	8.96	0.716	11.63	8.70	115	600	11.91
1759	6.97	8.90	0.713	11.67	8.47	116	600	11.91
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: 11176167.00002 Site: Rose Valley Landfill Well #: SW-04S

Sampling Personnel: C. Dusel, S. McCabe Date: 7/13/11 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 2.95 Depth to Well Bottom: 8.22 Well Diameter: 2" Screen Length: 8'

Casing Type: PVC Volume in 1 Well Casing (liters): 3.25 Estimated Purge Volume (liters): 3.5

Sample ID: SW-04S Sample Time: 0930 QA/QC: MS/MSD

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0915	6.76	11.17	0.449	0.96	0.30	-117	250	2.95
0917	6.77	11.80	0.431	0.62	0.29	-116	250	2.97
0919	6.76	11.82	0.430	0.46	0.0	-116	250	2.98
0921	6.75	11.85	0.435	0.33	0.0	-115	250	3.04
0923	6.73	11.72	0.445	0.14	0.0	-117	250	3.09
0925	6.73	11.62	0.448	0.06	0.0	-118	250	3.11
0927	6.72	11.53	0.453	0.0	0.0	-121	250	3.17
0929	6.73	11.42	0.451	0.0	0.0	-123	250	3.23
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: 11176167.00002 Site: Rose Valley Landfill Well #: SW-04D

Sampling Personnel: C. Dusel, S. McCabe Date: 7/13/11 Company: URS Corporation

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

Measuring Point: TOC Initial Depth to Water: 0.00 Depth to Well Bottom: 83.35 Well Diameter: 2" Screen Length: 8'

Casing Type: PVC Volume in 1 Well Casing (liters): 51.43 Estimated Purge Volume (liters): 40.0

Sample ID: SW-04D Sample Time: 1040 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0945	8.25	7.45	0.157	0.0	59.6	-255	800	0
0950	8.79	7.53	0.157	0.0	67.5	-247	800	0
0955	8.80	7.78	0.155	0.0	76.5	-241	800	0
1000	8.81	7.86	0.155	0.0	86.0	-235	800	0
1005	8.79	7.92	0.154	0.0	69.1	-232	800	0
1010	8.76	7.95	0.154	0.0	34.2	-230	800	0
1015	8.75	7.95	0.154	0.0	28.9	-229	800	0
1020	8.74	7.94	0.154	0.0	13.1	-227	800	0
1025	8.74	7.94	0.154	0.0	5.64	-227	800	0
1030	8.74	7.94	0.154	0.0	1.61	-227	800	0
1035	8.73	7.95	0.154	0.0	3.31	-227	800	0
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.

SAMPLING LOG

Project: 11176167.00002 Site: Rose Valley Landfill Location: North Detention Pond

Sampling Personnel: C. Dusel, S. McCabe Date: 7/13/11 Company: URS Corporation

Purging/ Sampling Device: Immersion Tubing Type: NA Tubing Inlet: NA

Measuring Point: NA Initial Depth to Water: NA Depth to Well Bottom: NA Well Diameter: NA Screen Length: NA

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

Sample ID: NDP-WS Sample Time: 1500 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1500	7.51	16.20	0.619	9.54	47	47		
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: Surface Water sampling

SAMPLING LOG

Project: 11176167.00002 Site: Rose Valley Landfill Location: South Detention Pond

Sampling Personnel: C. Dusel, S. McCabe Date: 7/13/11 Company: URS Corporation

Purging/ Sampling Device: Immersion Tubing Type: NA Tubing Inlet: NA

Measuring Point: NA Initial Depth to Water: NA Depth to Well Bottom: NA Well Diameter: NA Screen Length: NA

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

Sample ID: SDP-WS Sample Time: 1545 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1545	7.83	19.28	0.381	7.93	39	-58		
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: Surface Water sampling

SAMPLING LOG

Project: 11176167.00002 Site: Rose Valley Landfill Location: SWTR-1E

Sampling Personnel: C. Dusel, S. McCabe Date: 7/13/11 Company: URS Corporation

Purging/ Sampling Device: Immersion Tubing Type: NA Tubing Inlet: NA

Measuring Point: NA Initial Depth to Water: NA Depth to Well Bottom: NA Well Diameter: NA Screen Length: NA

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

Sample ID: SWTR-1E Sample Time: 1055 QA/QC: MS/MSD

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1055	7.74	14.82	0.468	8.01	15.1	58		
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: Surface Water sampling

SAMPLING LOG

Project: 11176167.00002 Site: Rose Valley Landfill Location: SWTR-1T

Sampling Personnel: C. Dusel, S. McCabe Date: 7/13/11 Company: URS Corporation

Purging/ Sampling Device: Immersion Tubing Type: NA Tubing Inlet: NA

Measuring Point: NA Initial Depth to Water: NA Depth to Well Bottom: NA Well Diameter: NA Screen Length: NA

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

Sample ID: SWTR-1T Sample Time: 1530 QA/QC: None

Sample Parameters: TCL VOC + TICs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1530	6.89	16.14	2.06	4.19	28.7	-106		
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: Surface Water sampling

APPENDIX C

PHOTOGRAPHIC LOG

ROSE VALLEY LANDFILL OPERATION, MONITORING AND MAINTENANCE
PHOTOGRAPHIC LOG
TOWN OF RUSSIA, NEW YORK

Photo 1: 7/12/2011-Hogweed growing around front entrance gate to the site.

Photo 2: 7/12/2011-Erosion/rilling in access road (upper center of photograph) has reached underlying geotextile fabric and is up to 1 foot across and up to 1 foot deep. Note hogweed growing to right side of gate.

ROSE VALLEY LANDFILL OPERATION, MONITORING AND MAINTENANCE
PHOTOGRAPHIC LOG
TOWN OF RUSSIA, NEW YORK

Photo 3: 7/12/2011-View of west side of the landfill, looking north showing recently completed mowing.

Photo 4: 7/12/2011-View of top of the landfill, looking east showing recently completed mowing.

ROSE VALLEY LANDFILL OPERATION, MONITORING AND MAINTENANCE
PHOTOGRAPHIC LOG
TOWN OF RUSSIA, NEW YORK

Photo 5: 7/12/2011-View of south side of the landfill, looking east showing recently completed mowing.

Photo 6: 7/12/2011-View of central portion of the landfill, looking south showing recently completed mowing.

ROSE VALLEY LANDFILL OPERATION, MONITORING AND MAINTENANCE
PHOTOGRAPHIC LOG
TOWN OF RUSSIA, NEW YORK

Photo 7: 7/12/2011-South Detention Pond with sediment accumulation.

Photo 8: 7/12/2011-North Detention Pond with sediment accumulation.

ROSE VALLEY LANDFILL OPERATION, MONITORING AND MAINTENANCE
PHOTOGRAPHIC LOG
TOWN OF RUSSIA, NEW YORK

Photo 9: 7/11/2011-Collection of surface water sample from location SWTR-1E.

Photo 10: 7/11/2011-Low flow sampling setup MW-16 in the background.

ROSE VALLEY LANDFILL OPERATION, MONITORING AND MAINTENANCE
PHOTOGRAPHIC LOG
TOWN OF RUSSIA, NEW YORK

Photo 11: 7/12/11-North side of landfill looking west from North Detention Pond.

Photo 12: 7/12/11-North side of landfill looking west from a location half way up the landfill.

ROSE VALLEY LANDFILL OPERATION, MONITORING AND MAINTENANCE
PHOTOGRAPHIC LOG
TOWN OF RUSSIA, NEW YORK

Photo 13: 7/13/2011-Erosion mat along west side of landfill looking north.

Photo 14: 7/13/2011-Erosion mat along west side of landfill looking south.

ROSE VALLEY LANDFILL OPERATION, MONITORING AND MAINTENANCE
PHOTOGRAPHIC LOG
TOWN OF RUSSIA, NEW YORK

Photo 15: 7/13/2011-Rilling on gravel access road which is on top of the landfill cap.

Photo 16: 7/13/2011-Dumping to the northwest of the landfill.

APPENDIX D

DATA USABILITY SUMMARY REPORT

(On Compact Disk)

DATA USABILITY SUMMARY REPORT

ROSE VALLEY LANDFILL
SITE ID NO. 622017
TOWN OF RUSSIA
HERKIMER COUNTY, NEW YORK

Analyses Performed by:

TESTAMERICA LABORATORIES, INC.
AMHERST, NEW YORK

Prepared by:

URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203

NOVEMBER 2011

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TABLES

(Following Text)

Table 1 Summary of Data Qualifications
Table 2 Validated Groundwater Sample Analytical Results
Table 3 Validated Surface Water Sample Analytical Results
Table 4 Validated Field QC Analytical Results

ATTACHMENTS

Attachment A Validated Form I's
Attachment B Support Documentation

I. 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 Summary Reports*, May 2010. Analytical data for 14 aqueous samples plus quality control (QC) collected July 12-13, 2011 are discussed in this DUSR. The samples were collected in support of the site management task assigned to URS under NYSDEC Work Assignment D004440-26 for the Rose Valley Landfill Site (Site Number 622017), located in the Town of Russia, Herkimer County, New York.

II. SAMPLE COLLECTION

On July 12-13, 2011, 10 groundwater samples, one blind field duplicate and one matrix spike/matrix spike duplicate (MS/MSD) pair, 4 surface water samples, one blind field duplicate and one MS/MSD pair, and one trip blank were collected from the site. The samples were sent to the NYSDEC's CallOut laboratory: TestAmerica Laboratories, Inc., located in Amherst, New York (TestAmerica-Buffalo) under NYSDEC CallOut ID 119939. TestAmerica-Buffalo is a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory.

III. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

All samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs) plus tentatively identified compounds (TICs) by United States Environmental Protection Agency (USEPA) Method SW8260B.

A limited data validation was performed on the samples following the guidelines in the USEPA's Region II document: Validating Volatile Organic Compounds by SW-846 Method 8260B, HW-24, Revision 2, August 2008.

The limited data review included a review of completeness of all required deliverables; holding times; QC results (blanks, instrument tunes, calibration standards, MS/MSD recoveries, duplicate analyses, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC 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.

Qualifications applied to the data include 'UJ' [estimated quantitation limit (QL)]. A summary of qualifications made to the data is presented in Table 1. The validated analytical results are provided in Tables 2 and 3 for groundwater and surface water, respectively. Field QC results are provided in Table 4. Copies of the validated laboratory results (i.e., Form 1s) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only problems affecting data usability are discussed in this report.

IV. DATA DELIVERABLE COMPLETENESS

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

V. SAMPLE RECEIPT/HOLDING TIMES

All samples were received by the laboratory intact, under proper chain-of-custody with the exception of the trip blank. The trip blank was not listed on the chain-of-custody, however, it was submitted with the samples and logged in by the laboratory. All samples were analyzed within the required holding times.

VI. 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 (CCAL) standards was greater than 20% for the following VOCs 1,2-dibromo-3-chloropropane, bromoform, bromomethane, carbon tetrachloride, chloroethane, dibromochloromethane, dichlorodifluoromethane and/or trichlorofluoromethane. The results for these compounds were qualified 'J' or 'UJ' as listed in Table 1.

Documentation supporting the qualification of data (i.e., Form 7, run log) is presented in Attachment B.

VII. SAMPLE RESULTS AND REPORTING

All sample results were reported in accordance with method requirements and were adjusted for sample volume. Results reported where the concentration detected was below the QL, but greater than the method detection limit (MDL), are qualified 'J' by the laboratory. TICs were qualified 'JN'.

Surface water sample SWRT-1T was analyzed at a dilution because of foaming during sample purging. The QL for the non-detect compounds represent the lowest achievable at the diluted level.

A field duplicate sample was collected at surface water location NDP (FD-071311) and a field duplicate sample was collected at groundwater location SW-01S (FD-071211). The results were in agreement.

VIII. SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'J' (estimated concentration), 'UJ' (estimated quantitation limit) or 'JN' (TIC) are considered conditionally usable. All other sample results are usable as reported. URS does not recommend the re-collection of any samples at this time.

Prepared By: George Kisluk, Senior Chemist GK **Date:** 11/7/11

Reviewed By: Peter Fairbanks, Senior Chemist PF **Date:** 11/7/11

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.

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

TABLE 1 SUMMARY OF DATA QUALIFICATIONS ROSE VALLEY LANDFILL			
SAMPLE ID	**FRACTION**	**ANALYTICAL DEVIATION**	**QUALIFICATION**
Groundwater: FD-07211 (SW-01S), SW-01D, SW-01S, SW-02D, SW-02S, SW-03S, SW-04S	VOA	%D between the ICAL average RRF and the CCAL RRF >20% for dibromochloromethane.	Qualify non-detect results 'UJ'.
Groundwater: MW-03, MW-04, MW-16, SW-04D Surface Water: FD-071311 (NDP), NDP-WS, SDP-WS, SWTR-1E, SWR-1T Field QC: Trip Blank	VOA	%D between the ICAL average RRF and the CCAL RRF >20% for 1,2-dibromo-3-chloropropane, bromoform, bromomethane, carbon tetrachloride, chloroethane, dibromochloromethane, dichlorodifluoromethane and trichlorofluoromethane.	Qualify non-detect results 'UJ' and detects 'J'.

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	FD-071211
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/13/11	07/13/11	07/13/11	07/12/11	07/12/11
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	5	2.2	10	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	5	8.0	2.4	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	UG/L	50	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 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

- = No standard or guidance value.

J - The reported concentration is an estimated value.

U or ND - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: GEK 09/08/2011 Checked By: AMK 09/08/2011

Detection Limits shown are PQL

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	FD-071211
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/13/11	07/13/11	07/13/11	07/12/11	07/12/11
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatile Organic Compounds							
Bromomethane	UG/L	5	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Carbon disulfide	UG/L	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	5	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Chlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	5	1.0 UJ	0.35 J	1.0 UJ	1.0 U	1.0 U
Chloroform	UG/L	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	50	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Dichlorodifluoromethane	UG/L	5	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Ethylbenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	5	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Vinyl chloride	UG/L	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 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.

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- = No standard or guidance value.

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U or ND - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: GEK 09/08/2011 Checked By: AMK 09/08/2011

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID			SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Sample ID			SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/12/11	07/12/11	07/12/11	07/12/11	07/13/11
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	UG/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ

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

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Made By: GEK 09/08/2011 Checked By: AMK 09/08/2011

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID			SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Sample ID			SW-01S	SW-02D	SW-02S	SW-03S	SW-04D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/12/11	07/12/11	07/12/11	07/12/11	07/13/11
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
Bromomethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon disulfide	UG/L	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroform	UG/L	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	50	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Dichlorodifluoromethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Vinyl chloride	UG/L	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 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

- = No standard or guidance value.

J - The reported concentration is an estimated value.

U or ND - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.

Made By: GEK 09/08/2011 Checked By: AMK 09/08/2011

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			07/13/11
Parameter	**Units**	**Criteria***	
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	5	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1.0 U
1,1,2-Trichloroethane	UG/L	1	1.0 U
1,1-Dichloroethane	UG/L	5	1.0 U
1,1-Dichloroethene	UG/L	5	1.0 U
1,2,4-Trichlorobenzene	UG/L	5	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	6.00E-04	1.0 U
1,2-Dichlorobenzene	UG/L	3	1.0 U
1,2-Dichloroethane	UG/L	0.6	1.0 U
1,2-Dichloroethene (cis)	UG/L	5	1.0 U
1,2-Dichloroethene (trans)	UG/L	5	1.0 U
1,2-Dichloropropane	UG/L	1	1.0 U
1,3-Dichlorobenzene	UG/L	3	1.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	1.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	1.0 U
1,4-Dichlorobenzene	UG/L	3	1.0 U
2-Hexanone	UG/L	50	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U
Acetone	UG/L	50	10 U
Benzene	UG/L	1	1.0 U
Bromodichloromethane	UG/L	50	1.0 U
Bromoform	UG/L	50	1.0 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.

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Made By: GEK 09/08/2011 Checked By: AMK 09/08/2011

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			07/13/11
Parameter	**Units**	**Criteria***	
Volatile Organic Compounds			
Bromomethane	UG/L	5	1.0 U
Carbon disulfide	UG/L	60	1.0 U
Carbon tetrachloride	UG/L	5	1.0 U
Chlorobenzene	UG/L	5	1.0 U
Chloroethane	UG/L	5	0.48 J
Chloroform	UG/L	7	1.0 U
Chloromethane	UG/L	5	1.0 U
Cyclohexane	UG/L	-	1.0 U
Dibromochloromethane	UG/L	50	1.0 UJ
Dichlorodifluoromethane	UG/L	5	1.0 U
Ethylbenzene	UG/L	5	1.0 U
Isopropylbenzene (Cumene)	UG/L	5	1.0 U
Methyl acetate	UG/L	-	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	10 U
Methyl tert-butyl ether	UG/L	10	1.0 U
Methylcyclohexane	UG/L	-	1.0 U
Methylene chloride	UG/L	5	1.0 U
Styrene	UG/L	5	1.0 U
Tetrachloroethene	UG/L	5	1.0 U
Toluene	UG/L	5	1.0 U
Trichloroethene	UG/L	5	1.0 U
Trichlorofluoromethane	UG/L	5	1.0 U
Vinyl chloride	UG/L	2	1.0 U
Xylene (total)	UG/L	5	2.0 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.

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Made By: GEK 09/08/2011 Checked By: AMK 09/08/2011

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-071311	NDP-WS	SDP-WS	SWTR-1E	SWRT-1T
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/13/11	07/13/11	07/13/11	07/13/11	07/13/11
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,1,2,2-Tetrachloroethane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,1,2-Trichloroethane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,1-Dichloroethane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,1-Dichloroethene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2,4-Trichlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2-Dibromo-3-chloropropane	UG/L	-	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	4.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2-Dichlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2-Dichloroethane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2-Dichloroethene (cis)	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2-Dichloroethene (trans)	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2-Dichloropropane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,3-Dichlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,3-Dichloropropene (cis)	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,3-Dichloropropene (trans)	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,4-Dichlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
2-Hexanone	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	20 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	20 U
Acetone	UG/L	-	10 U	10 U	10 U	10 U	20 J
Benzene	UG/L	10	1.0 U	1.0 U	1.0 U	1.0 U	1.8 J
Bromodichloromethane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Bromoform	UG/L	-	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	4.0 UJ

*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

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Made By: GEK 09/08/2011 Checked By: AMK 09/08/2011

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-071311	NDP-WS	SDP-WS	SWTR-1E	SWRT-1T
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/13/11	07/13/11	07/13/11	07/13/11	07/13/11
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)				
Volatile Organic Compounds							
Bromomethane	UG/L	-	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	4.0 UJ
Carbon disulfide	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Carbon tetrachloride	UG/L	-	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	4.0 UJ
Chlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	3.3 J
Chloroethane	UG/L	-	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	4.0 UJ
Chloroform	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Chloromethane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Cyclohexane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Dibromochloromethane	UG/L	-	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	4.0 UJ
Dichlorodifluoromethane	UG/L	-	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	4.0 UJ
Ethylbenzene	UG/L	17	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Isopropylbenzene (Cumene)	UG/L	2.6	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Methyl acetate	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	-	10 U	10 U	10 U	10 U	40 U
Methyl tert-butyl ether	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Methylcyclohexane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Methylene chloride	UG/L	200	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Styrene	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Tetrachloroethene	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Toluene	UG/L	100	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Trichloroethene	UG/L	40	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Trichlorofluoromethane	UG/L	-	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	4.0 UJ
Vinyl chloride	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Xylene (total)	UG/L	65	2.0 U	2.0 U	2.0 U	2.0 U	8.0 U

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

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Made By: GEK 09/08/2011 Checked By: AMK 09/08/2011

Detection Limits shown are PQL

TABLE 4
VALIDATED FIELD QC ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID		FIELDQC
Sample ID		TRIP BLANK
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		07/13/11
Parameter	Units	Trip Blank (1-1)
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/L	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U
1,1-Dichloroethane	UG/L	1.0 U
1,1-Dichloroethene	UG/L	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U
1,2-Dichloroethane	UG/L	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U
1,2-Dichloropropane	UG/L	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U
2-Hexanone	UG/L	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U
Acetone	UG/L	10 U
Benzene	UG/L	1.0 U
Bromodichloromethane	UG/L	1.0 U
Bromoform	UG/L	1.0 UJ

Flags assigned during chemistry validation are shown.

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U or ND - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value.
Made By: GEK 09/08/2011 Checked By: AMK 09/08/2011

Detection Limits shown are PQL

TABLE 4
VALIDATED FIELD QC ANALYTICAL RESULTS
ROSE VALLEY LANDFILL

Location ID		FIELDQC
Sample ID		TRIP BLANK
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		07/13/11
Parameter	Units	Trip Blank (1-1)
Volatile Organic Compounds		
Bromomethane	UG/L	1.0 UJ
Carbon disulfide	UG/L	1.0 U
Carbon tetrachloride	UG/L	1.0 UJ
Chlorobenzene	UG/L	1.0 U
Chloroethane	UG/L	1.0 UJ
Chloroform	UG/L	1.0 U
Chloromethane	UG/L	1.0 U
Cyclohexane	UG/L	1.0 U
Dibromochloromethane	UG/L	1.0 UJ
Dichlorodifluoromethane	UG/L	1.0 UJ
Ethylbenzene	UG/L	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U
Methyl acetate	UG/L	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U
Methyl tert-butyl ether	UG/L	1.0 U
Methylcyclohexane	UG/L	1.0 U
Methylene chloride	UG/L	1.0 U
Styrene	UG/L	1.0 U
Tetrachloroethene	UG/L	1.0 U
Toluene	UG/L	1.0 U
Trichloroethene	UG/L	1.0 U
Trichlorofluoromethane	UG/L	1.0 UJ
Vinyl chloride	UG/L	1.0 U
Xylene (total)	UG/L	2.0 U

Flags assigned during chemistry validation are shown.

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Made By: GEK 09/08/2011 Checked By: AMK 09/08/2011

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM 1s

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-01S
Lab Sample ID: 480-7265-1
Matrix: Water
Lab File ID: P3981.D
Analysis Method: 8260B
Date Collected: 07/12/2011 16:30
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 14:44
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L

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

6 9/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-01S
Lab Sample ID: 480-7265-1
Matrix: Water
Lab File ID: P3981.D
Analysis Method: 8260B
Date Collected: 07/12/2011 16:30
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 14:44
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
2037-26-5	Toluene-d8 (Surr)	84		71-126
460-00-4	4-Bromofluorobenzene (Surr)	79		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-01S
Lab Sample ID: 480-7265-1
Matrix: Water
Lab File ID: P3981.D
Analysis Method: 8260B
Date Collected: 07/12/2011 16:30
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 14:44
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L
Number TICs Found: 0
TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-01D
Lab Sample ID: 480-7265-2
Matrix: Water
Lab File ID: P3982.D
Analysis Method: 8260B
Date Collected: 07/12/2011 17:30
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 15:09
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L

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

bc 8/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-01D
Lab Sample ID: 480-7265-2
Matrix: Water
Lab File ID: P3982.D
Analysis Method: 8260B
Date Collected: 07/12/2011 17:30
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 15:09
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		66-137
2037-26-5	Toluene-d8 (Surr)	86		71-126
460-00-4	4-Bromofluorobenzene (Surr)	80		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: SW-01D | Lab Sample ID: 480-7265-2

Matrix: Water | Lab File ID: P3982.D

Analysis Method: 8260B | Date Collected: 07/12/2011 17:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2011 15:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23814 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: SW-03S | Lab Sample ID: 480-7265-3

Matrix: Water | Lab File ID: P3983.D

Analysis Method: 8260B | Date Collected: 07/12/2011 18:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2011 15:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23814 | Units: ug/L

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

GSA 9/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-03S
Lab Sample ID: 480-7265-3
Matrix: Water
Lab File ID: P3983.D
Analysis Method: 8260B
Date Collected: 07/12/2011 18:00
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 15:34
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		66-137
2037-26-5	Toluene-d8 (Surr)	83		71-126
460-00-4	4-Bromofluorobenzene (Surr)	79		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: SW-03S | Lab Sample ID: 480-7265-3

Matrix: Water | Lab File ID: P3983.D

Analysis Method: 8260B | Date Collected: 07/12/2011 18:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2011 15:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23814 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-02S
Lab Sample ID: 480-7265-4
Matrix: Water
Lab File ID: P3984.D
Analysis Method: 8260B
Date Collected: 07/12/2011 18:40
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 15:59
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L

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

BSX 8/18/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-02S
Lab Sample ID: 480-7265-4
Matrix: Water
Lab File ID: P3984.D
Analysis Method: 8260B
Date Collected: 07/12/2011 18:40
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 15:59
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
2037-26-5	Toluene-d8 (Surr)	82		71-126
460-00-4	4-Bromofluorobenzene (Surr)	78		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-7265-1

SDG No.:

Client Sample ID: SW-02S Lab Sample ID: 480-7265-4

Matrix: Water Lab File ID: P3984.D

Analysis Method: 8260B Date Collected: 07/12/2011 18:40

Sample wt/vol: 5(mL) Date Analyzed: 07/17/2011 15:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 23814 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-02D
Lab Sample ID: 480-7265-5
Matrix: Water
Lab File ID: P3985.D
Analysis Method: 8260B
Date Collected: 07/12/2011 19:20
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 16:24
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L

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

GZL 9/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-02D
Lab Sample ID: 480-7265-5
Matrix: Water
Lab File ID: P3985.D
Analysis Method: 8260B
Date Collected: 07/12/2011 19:20
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 16:24
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		66-137
2037-26-5	Toluene-d8 (Surr)	85		71-126
460-00-4	4-Bromofluorobenzene (Surr)	79		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-02D
Lab Sample ID: 480-7265-5
Matrix: Water
Lab File ID: P3985.D
Analysis Method: 8260B
Date Collected: 07/12/2011 19:20
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 16:24
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L
Number TICs Found: 0
TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: FD-071211
Lab Sample ID: 480-7265-6
Matrix: Water
Lab File ID: P3986.D
Analysis Method: 8260B
Date Collected: 07/12/2011 00:00
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 16:49
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L

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

bc 9/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: FD-071211 | Lab Sample ID: 480-7265-6

Matrix: Water | Lab File ID: P3986.D

Analysis Method: 8260B | Date Collected: 07/12/2011 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2011 16:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23814 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		66-137
2037-26-5	Toluene-d8 (Surr)	84		71-126
460-00-4	4-Bromofluorobenzene (Surr)	79		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: FD-071211
Lab Sample ID: 480-7265-6
Matrix: Water
Lab File ID: P3986.D
Analysis Method: 8260B
Date Collected: 07/12/2011 00:00
Sample wt/vol: 5(mL)
Date Analyzed: 07/17/2011 16:49
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23814
Units: ug/L
Number TICs Found: 0
TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: SW-04S | Lab Sample ID: 480-7265-7

Matrix: Water | Lab File ID: P3987.D

Analysis Method: 8260B | Date Collected: 07/13/2011 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2011 17:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23814 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND	UJ	1.0	0.32
75-00-3	Chloroethane	0.48	J	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: SW-04S | Lab Sample ID: 480-7265-7

Matrix: Water | Lab File ID: P3987.D

Analysis Method: 8260B | Date Collected: 07/13/2011 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2011 17:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23814 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		66-137
2037-26-5	Toluene-d8 (Surr)	84		71-126
460-00-4	4-Bromofluorobenzene (Surr)	80		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-7265-1

SDG No.:

Client Sample ID: SW-04S Lab Sample ID: 480-7265-7

Matrix: Water Lab File ID: P3987.D

Analysis Method: 8260B Date Collected: 07/13/2011 09:30

Sample wt/vol: 5(mL) Date Analyzed: 07/17/2011 17:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 23814 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: SW-04D | Lab Sample ID: 480-7265-8

Matrix: Water | Lab File ID: P4006.D

Analysis Method: 8260B | Date Collected: 07/13/2011 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 07/18/2011 16:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23902 | Units: ug/L

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

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-04D
Lab Sample ID: 480-7265-8
Matrix: Water
Lab File ID: P4006.D
Analysis Method: 8260B
Date Collected: 07/13/2011 10:40
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 16:13
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		66-137
2037-26-5	Toluene-d8 (Surr)	84		71-126
460-00-4	4-Bromofluorobenzene (Surr)	80		73-120

GM 8/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SW-04D
Lab Sample ID: 480-7265-8
Matrix: Water
Lab File ID: P4006.D
Analysis Method: 8260B
Date Collected: 07/13/2011 10:40
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 16:13
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L
Number TICs Found: 0
TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SWTR-1E
Lab Sample ID: 480-7265-9
Matrix: Water
Lab File ID: P4007.D
Analysis Method: 8260B
Date Collected: 07/13/2011 10:55
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 16:38
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

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

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SWTR-1E
Lab Sample ID: 480-7265-9
Matrix: Water
Lab File ID: P4007.D
Analysis Method: 8260B
Date Collected: 07/13/2011 10:55
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 16:38
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		66-137
2037-26-5	Toluene-d8 (Surr)	85		71-126
460-00-4	4-Bromofluorobenzene (Surr)	80		73-120

GEL 9/6/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-7265-1

SDG No.:

Client Sample ID: SWTR-1E Lab Sample ID: 480-7265-9

Matrix: Water Lab File ID: P4007.D

Analysis Method: 8260B Date Collected: 07/13/2011 10:55

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2011 16:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 23902 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: MW-16 | Lab Sample ID: 480-7265-10

Matrix: Water | Lab File ID: P4010.D

Analysis Method: 8260B | Date Collected: 07/13/2011 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 07/18/2011 17:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23902 | Units: ug/L

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

bzv 9/8/14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: MW-16
Lab Sample ID: 480-7265-10
Matrix: Water
Lab File ID: P4010.D
Analysis Method: 8260B
Date Collected: 07/13/2011 11:55
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 17:53
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
2037-26-5	Toluene-d8 (Surr)	84		71-126
460-00-4	4-Bromofluorobenzene (Surr)	80		73-120

bsm 9/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-7265-1

SDG No.:

Client Sample ID: MW-16 Lab Sample ID: 480-7265-10

Matrix: Water Lab File ID: P4010.D

Analysis Method: 8260B Date Collected: 07/13/2011 11:55

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2011 17:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 23902 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: MW-04 | Lab Sample ID: 480-7265-11

Matrix: Water | Lab File ID: P4011.D

Analysis Method: 8260B | Date Collected: 07/13/2011 13:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/18/2011 18:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23902 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	10		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND	UJ	1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND	~~UJ~~	1.0	0.39
75-25-2	Bromoform	ND	UJ	1.0	0.26
74-83-9	Bromomethane	ND	UJ	1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND	UJ	1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND	UJ	1.0	0.32
75-00-3	Chloroethane	0.35	J	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	2.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

9/6/11 08/01/2011

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: MW-04
Lab Sample ID: 480-7265-11
Matrix: Water
Lab File ID: P4011.D
Analysis Method: 8260B
Date Collected: 07/13/2011 13:10
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 18:17
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		66-137
2037-26-5	Toluene-d8 (Surr)	83		71-126
460-00-4	4-Bromofluorobenzene (Surr)	78		73-120

Gu 9/9/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-7265-1

SDG No.:

Client Sample ID: MW-04 Lab Sample ID: 480-7265-11

Matrix: Water Lab File ID: P4011.D

Analysis Method: 8260B Date Collected: 07/13/2011 13:10

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2011 18:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 23902 Units: ug/L

Number TICs Found: 3 TIC Result Total: 14.8

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	
75-45-6	Chlorodifluoromethane	2.84	8.2	JN
75-43-4	Dichlorofluoromethane	4.03	0.90	J N
60-29-7	Ethyl ether	4.36	5.7	JN

9/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: MW-03 | Lab Sample ID: 480-7265-12

Matrix: Water | Lab File ID: P4012.D

Analysis Method: 8260B | Date Collected: 07/13/2011 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/18/2011 18:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23902 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	2.2		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND	UJ	1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	UJ	1.0	0.26
74-83-9	Bromomethane	ND	UJ	1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND	UJ	1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND	UJ	1.0	0.32
75-00-3	Chloroethane	ND	UJ	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	8.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: MW-03 | Lab Sample ID: 480-7265-12

Matrix: Water | Lab File ID: P4012.D

Analysis Method: 8260B | Date Collected: 07/13/2011 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/18/2011 18:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23902 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
2037-26-5	Toluene-d8 (Surr)	85		71-126
460-00-4	4-Bromofluorobenzene (Surr)	79		73-120

BH 9/6/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: MW-03
Lab Sample ID: 480-7265-12
Matrix: Water
Lab File ID: P4012.D
Analysis Method: 8260B
Date Collected: 07/13/2011 14:30
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 18:43
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L
Number TICs Found: 0
TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: NDP-WS
Lab Sample ID: 480-7265-13
Matrix: Water
Lab File ID: P4013.D
Analysis Method: 8260B
Date Collected: 07/13/2011 15:00
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 19:08
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

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

ROL 9/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: NDP-WS
Lab Sample ID: 480-7265-13
Matrix: Water
Lab File ID: P4013.D
Analysis Method: 8260B
Date Collected: 07/13/2011 15:00
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 19:08
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		66-137
2037-26-5	Toluene-d8 (Surr)	84		71-126
460-00-4	4-Bromofluorobenzene (Surr)	79		73-120

DDL 9/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: NDP-WS | Lab Sample ID: 480-7265-13

Matrix: Water | Lab File ID: P4013.D

Analysis Method: 8260B | Date Collected: 07/13/2011 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/18/2011 19:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23902 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: SWRT-1T | Lab Sample ID: 480-7265-14

Matrix: Water | Lab File ID: P4014.D

Analysis Method: 8260B | Date Collected: 07/13/2011 15:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/18/2011 19:33

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23902 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
75-34-3	1,1-Dichloroethane	ND		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND	UJ	4.0	1.6
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
591-78-6	2-Hexanone	ND		20	5.0
78-93-3	2-Butanone (MEK)	ND		40	5.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	20	J	40	12
71-43-2	Benzene	1.8	J	4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND	UJ	4.0	1.0
74-83-9	Bromomethane	ND	UJ	4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND	UJ	4.0	1.1
108-90-7	Chlorobenzene	3.3	J	4.0	3.0
124-48-1	Dibromochloromethane	ND	UJ	4.0	1.3
75-00-3	Chloroethane	ND	UJ	4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	ND		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
110-82-7	Cyclohexane	ND		4.0	0.72
75-71-8	Dichlorodifluoromethane	ND	UJ	4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	3.0
98-82-8	Isopropylbenzene	ND		4.0	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SWRT-1T
Lab Sample ID: 480-7265-14
Matrix: Water
Lab File ID: P4014.D
Analysis Method: 8260B
Date Collected: 07/13/2011 15:30
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 19:33
Soil Aliquot Vol:
Dilution Factor: 4
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		4.0	2.0
1634-04-4	Methyl tert-butyl ether	ND		4.0	0.64
108-87-2	Methylcyclohexane	ND		4.0	0.64
75-09-2	Methylene Chloride	ND		4.0	1.8
100-42-5	Styrene	ND		4.0	2.9
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene	ND		4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND	UJ	4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
2037-26-5	Toluene-d8 (Surr)	84		71-126
460-00-4	4-Bromofluorobenzene (Surr)	78		73-120

FORM I 8260B

9/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: SWRT-1T | Lab Sample ID: 480-7265-14

Matrix: Water | Lab File ID: P4014.D

Analysis Method: 8260B | Date Collected: 07/13/2011 15:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/18/2011 19:33

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23902 | Units: ug/L

Number TICs Found: 3 | TIC Result Total: 52.3

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	
75-45-6	Chlorodifluoromethane	2.84	6.3	JN
60-29-7	Ethyl ether	4.36	10	JN
109-99-9	Tetrahydrofuran	7.01	36	JN

bsl 9/6/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SDP-WS
Lab Sample ID: 480-7265-15
Matrix: Water
Lab File ID: P4015.D
Analysis Method: 8260B
Date Collected: 07/13/2011 15:45
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 19:58
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: SDP-WS
Lab Sample ID: 480-7265-15
Matrix: Water
Lab File ID: P4015.D
Analysis Method: 8260B
Date Collected: 07/13/2011 15:45
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 19:58
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
2037-26-5	Toluene-d8 (Surr)	84		71-126
460-00-4	4-Bromofluorobenzene (Surr)	79		73-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: SDP-WS | Lab Sample ID: 480-7265-15

Matrix: Water | Lab File ID: P4015.D

Analysis Method: 8260B | Date Collected: 07/13/2011 15:45

Sample wt/vol: 5(mL) | Date Analyzed: 07/18/2011 19:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23902 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: FD-071311
Lab Sample ID: 480-7265-16
Matrix: Water
Lab File ID: P4016.D
Analysis Method: 8260B
Date Collected: 07/13/2011 00:00
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 20:23
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: FD-071311 | Lab Sample ID: 480-7265-16

Matrix: Water | Lab File ID: P4016.D

Analysis Method: 8260B | Date Collected: 07/13/2011 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/18/2011 20:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23902 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
2037-26-5	Toluene-d8 (Surr)	84		71-126
460-00-4	4-Bromofluorobenzene (Surr)	77		73-120

GBX 8/8/11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: FD-071311
Lab Sample ID: 480-7265-16
Matrix: Water
Lab File ID: P4016.D
Analysis Method: 8260B
Date Collected: 07/13/2011 00:00
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 20:23
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L
Number TICs Found: 0
TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: TRIP BLANK
Lab Sample ID: 480-7265-17
Matrix: Water
Lab File ID: P4017.D
Analysis Method: 8260B
Date Collected: 07/13/2011 00:00
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 20:47
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-7265-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-7265-17

Matrix: Water | Lab File ID: P4017.D

Analysis Method: 8260B | Date Collected: 07/13/2011 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/18/2011 20:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 23902 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		66-137
2037-26-5	Toluene-d8 (Surr)	84		71-126
460-00-4	4-Bromofluorobenzene (Surr)	79		73-120

CEM 9/8/14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo
Job No.: 480-7265-1
SDG No.:
Client Sample ID: TRIP BLANK
Lab Sample ID: 480-7265-17
Matrix: Water
Lab File ID: P4017.D
Analysis Method: 8260B
Date Collected: 07/13/2011 00:00
Sample wt/vol: 5(mL)
Date Analyzed: 07/18/2011 20:47
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 23902
Units: ug/L
Number TICs Found: 0
TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

ATTACHMENT B

SUPPORT DOCUMENTATION

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11176167.00002

SITE NAME Rose Valley Landfill

SAMPLERS (PRINT/SIGNATURE) S. McCabe, C. Dusel

LAB TEST AMERICA

COOLER 1 of

PAGE 1 of

DELIVERY SERVICE: AIRBILL NO.:

TESTS: TCL VOCs TICs

BOTTLE TYPE AND PRESERVATIVE: 40ml VOA HCL

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs TICs	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
SW-01S	7-12-11	1630	G	SW-01S	WG	3	3		N1	—	—	—
SW-01D	7-12-11	1730	G	SW-01D	WG	3	3		N1	—	—	
SW-03S	7-12-11	1800	G	SW-03S	WG	3	3		N1	—	—	
SW-02S	7-12-11	1840	G	SW-02S	WG	3	3		N1	—	—	—
SW-02D	7-12-11	1920	G	SW-02D	WG	3	3		N1	—	—	—
Duplicate	7-12-11	—	G	FD-071211	WG	3	3		FD1	—	—	—
SW-04S	7-13-11	0930	G	SW-04S	WG	3	3		N1	—	—	
SW-04S	7-13-11	0930	G	SW-04S-MS	WG	3	3		MS1	—	—	
SW-04S	7-13-11	0930	G	SW-04S-MSD	WG	3	3		SD1	—	—	
SW-04D	7-13-11	1040	G	SW-04D	WG	3	3		N1	—	—	—
SWTR-1E	7-13-11	1055	G	SWTR-1E	WS	3	3		N1	—	—	—
SWTR-1E	7-13-11	1055	G	SWTR-1E-MS	WS	3	3		MS2	—	—	—
SWTR-1E	7-13-11	1055	G	SWTR-1E-MSD	WS	3	3		SD2	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	7/14/11	1245			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	7-14	1245

SPECIAL INSTRUCTIONS
Contact George Kistler w/ any questions
716-923-1321

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

4.2

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11176167.00002

SITE NAME Rose Valley Landfill

SAMPLERS (PRINT/SIGNATURE) S. McLaren / C. Dusel

LAB Test America

COOLER 1 of

PAGE 2 of

DELIVERY SERVICE: AIRBILL NO.:

TESTS: TCL VOC + TCL

BOTTLE TYPE AND PRESERVATIVE: 40ml vial HCL

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40ml vial HCL	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
MW-16	7-13-11	1155	G	MW-16	WG	3	3		N1	—		
MW-04	7-13-11	1310	G	MW-04	WG	3	3		N1	—		
MW-03	7-13-11	1430	G	MW-03	WG	3	3		N1	—		
NDP	7-13-11	1500	G	NDP-WS	WS	3	3		N1	—		
SWTR-1T	7-13-11	1530	G	SWTR-1T	WS	3	3		N1	—		
SDP	7-13-11	1545	G	SDP-WS	WS	3	3		N1	—		
Duplicate	7-13-11	—	G	FD-071311	—	3	3		FR2	—		

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	7/14/11	1245			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	7-14	1245

SPECIAL INSTRUCTIONS: Contact George Kisluk w/ any questions 716 923-1321

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

4/2

Job Narrative
480-7265-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: SWRT-1T (480-7265-14). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-7265-1

SDG No.:

Lab Sample ID: CCVIS 480-23814/2 Calibration Date: 07/17/2011 13:01

Instrument ID: HP5973P Calib Start Date: 07/13/2011 19:24

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 07/13/2011 21:28

Lab File ID: P3978.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	
Toluene	Ave	2.000	1.788		22.3	25.0	-10.6	20.0	
trans-1,3-Dichloropropene	Ave	1.144	1.107		24.2	25.0	-3.2	50.0	
Ethyl methacrylate	Ave	1.146	1.122		24.5	25.0	-2.1	50.0	
1,1,2-Trichloroethane	Ave	0.6933	0.6421		23.2	25.0	-7.4	50.0	
Tetrachloroethene	Ave	0.8799	0.7757		22.0	25.0	-11.8	50.0	
1,3-Dichloropropane	Ave	1.369	1.278		23.3	25.0	-6.6	50.0	
2-Hexanone	Ave	0.8736	0.8740		125	125	0.0	50.0	
Dibromochloromethane	LinF		0.6507		18.4	25.0	-26.4	50.0	
1,2-Dibromoethane	Ave	0.8544	0.8030		23.5	25.0	-6.0	50.0	
Chlorobenzene	Ave	2.246	2.017	0.3000	22.5	25.0	-10.2	50.0	
Ethylbenzene	Ave	3.686	3.401		23.1	25.0	-7.7	20.0	
1,1,1,2-Tetrachloroethane	Lin1F		0.6478		19.8	25.0	-20.8	50.0	NTC
m,p-Xylene	Ave	1.406	1.289		45.8	50.0	-8.3	50.0	
o-Xylene	Ave	1.393	1.257		22.6	25.0	-9.8	50.0	
Styrene	Ave	2.332	2.217		23.8	25.0	-4.9	50.0	
Bromoform	QuaF		0.4230	0.1000	20.2	25.0	-19.2	50.0	
Isopropylbenzene	Ave	3.242	3.033		23.4	25.0	-6.5	50.0	
1,1,2,2-Tetrachloroethane	Ave	1.146	1.109	0.3000	24.2	25.0	-3.2	50.0	
Bromobenzene	Ave	0.9879	0.9113		23.1	25.0	-7.8	50.0	
trans-1,4-Dichloro-2-butene	Ave	0.2941	0.3202		136	125	8.9	50.0	
1,2,3-Trichloropropane	Ave	0.3253	0.3057		23.5	25.0	-6.0	50.0	
N-Propylbenzene	Ave	4.379	4.218		24.1	25.0	-3.7	50.0	
2-Chlorotoluene	Ave	0.8485	0.7821		23.0	25.0	-7.8	50.0	
1,3,5-Trimethylbenzene	Ave	2.746	2.557		23.3	25.0	-6.9	50.0	
4-Chlorotoluene	Ave	0.8947	0.8184		22.9	25.0	-8.5	50.0	
tert-Butylbenzene	Ave	0.5499	0.4872		22.2	25.0	-11.4	50.0	
1,2,4-Trimethylbenzene	Ave	2.766	2.641		23.9	25.0	-4.5	50.0	
sec-Butylbenzene	Ave	3.407	3.196		23.4	25.0	-6.2	50.0	
4-Isopropyltoluene	Ave	2.770	2.603		23.5	25.0	-6.0	50.0	
1,3-Dichlorobenzene	Ave	1.760	1.605		22.8	25.0	-8.8	50.0	
1,4-Dichlorobenzene	Ave	1.831	1.696		23.2	25.0	-7.4	50.0	
n-Butylbenzene	Ave	2.796	2.718		24.3	25.0	-2.8	50.0	
1,2-Dichlorobenzene	Ave	1.737	1.597		23.0	25.0	-8.1	50.0	
1,2-Dibromo-3-Chloropropane	Lin1F		0.2040		22.0	25.0	-12.0	50.0	
1,2,4-Trichlorobenzene	Ave	1.185	1.127		23.8	25.0	-5.0	50.0	
Hexachlorobutadiene	Ave	0.2388	0.2241		23.5	25.0	-6.1	50.0	
Naphthalene	Ave	1.589	1.697		26.7	25.0	6.9	50.0	
1,2,3-Trichlorobenzene	Ave	0.5670	0.5734		25.3	25.0	1.1	50.0	
1,2-Dichloroethane-d4 (Surr)	Ave	0.2641	0.2200		20.8	25.0	-16.7	50.0	
Toluene-d8 (Surr)	Ave	2.602	2.198		21.1	25.0	-15.5	50.0	
4-Bromofluorobenzene (Surr)	Ave	0.9146	0.7872		21.5	25.0	-13.9	50.0	

FORM VII 8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-7265-1

SDG No.:

Instrument ID: HP5973P Start Date: 07/17/2011 12:36

Analysis Batch Number: 23814 End Date: 07/17/2011 18:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-23814/1		07/17/2011 12:36	1	P3977.D	ZB-624 (60) 0.25(mm)
CCVIS 480-23814/2		07/17/2011 13:01	1	P3978.D	ZB-624 (60) 0.25(mm)
LCS 480-23814/3		07/17/2011 13:39	1	P3979.D	ZB-624 (60) 0.25(mm)
MB 480-23814/4		07/17/2011 14:04	1	P3980.D	ZB-624 (60) 0.25(mm)
480-7265-1	SW-01S	07/17/2011 14:44	1	P3981.D	ZB-624 (60) 0.25(mm)
480-7265-2	SW-01D	07/17/2011 15:09	1	P3982.D	ZB-624 (60) 0.25(mm)
480-7265-3	SW-03S	07/17/2011 15:34	1	P3983.D	ZB-624 (60) 0.25(mm)
480-7265-4	SW-02S	07/17/2011 15:59	1	P3984.D	ZB-624 (60) 0.25(mm)
480-7265-5	SW-02D	07/17/2011 16:24	1	P3985.D	ZB-624 (60) 0.25(mm)
480-7265-6	FD-071211	07/17/2011 16:49	1	P3986.D	ZB-624 (60) 0.25(mm)
480-7265-7	SW-04S	07/17/2011 17:14	1	P3987.D	ZB-624 (60) 0.25(mm)
480-7265-7 MS	SW-04S MS	07/17/2011 17:39	1	P3988.D	ZB-624 (60) 0.25(mm)
480-7265-7 MSD	SW-04S MSD	07/17/2011 18:04	1	P3989.D	ZB-624 (60) 0.25(mm)

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-7265-1

SDG No.:

Lab Sample ID: CCVIS 480-23902/2 Calibration Date: 07/18/2011 14:40

Instrument ID: HP5973P Calib Start Date: 07/13/2011 19:24

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 07/13/2011 21:28

Lab File ID: P4003.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	0.5050	0.3936		19.5	25.0	-22.1	50.0
Chloromethane	Ave	0.5132	0.4332	0.1000	21.1	25.0	-15.6	50.0
Vinyl chloride	Ave	0.4642	0.3848		20.7	25.0	-17.1	20.0
Bromomethane	Ave	0.2051	0.1471		17.9	25.0	-28.3	50.0
Chloroethane	Ave	0.2066	0.1547		18.7	25.0	-25.1	50.0
Trichlorofluoromethane	Ave	0.6963	0.4933		17.7	25.0	-29.2	50.0
Acrolein	Ave	0.0297	0.0246		413	500	-17.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3703	0.3695		25.0	25.0	-0.2	50.0
1,1-Dichloroethene	Ave	0.4160	0.3680	0.1000	22.1	25.0	-11.6	20.0
Acetone	Ave	0.2005	0.1851		115	125	-7.7	50.0
Iodomethane	Ave	0.5337	0.4989		23.4	25.0	-6.5	50.0
Carbon disulfide	Ave	1.050	1.037		24.7	25.0	-1.2	50.0
Methyl acetate	Ave	0.7803	0.6750		21.6	25.0	-13.5	50.0
Acetonitrile	Ave	0.0463	0.0427		923	1000	-7.7	50.0
Methylene Chloride	Ave	0.4802	0.4286		22.3	25.0	-10.7	50.0
Methyl tert-butyl ether	Ave	1.287	1.165		22.6	25.0	-9.5	50.0
trans-1,2-Dichloroethene	Ave	0.4266	0.3951		23.2	25.0	-7.4	50.0
Acrylonitrile	Ave	0.2106	0.1913		114	125	-9.1	50.0
Vinyl acetate	Ave	0.8116	0.7443		115	125	-8.3	50.0
1,1-Dichloroethane	Ave	0.8154	0.7432		22.8	25.0	-8.9	50.0
2-Butanone (MEK)	Ave	0.3048	0.2770		114	125	-9.1	50.0
2,2-Dichloropropane	Ave	0.5184	0.4539		21.9	25.0	-12.4	50.0
cis-1,2-Dichloroethene	Ave	0.4651	0.4294		23.1	25.0	-7.7	50.0
Bromochloromethane	Ave	0.2219	0.2034		22.9	25.0	-8.4	50.0
Tetrahydrofuran	Ave	0.1949	0.1735		111	125	-11.0	50.0
Chloroform	Ave	0.7759	0.6909		22.3	25.0	-11.0	20.0
1,1,1-Trichloroethane	Ave	0.5780	0.4779		20.7	25.0	-17.3	50.0
Cyclohexane	Ave	0.6389	0.5816		22.8	25.0	-9.0	50.0
1,1-Dichloropropene	Ave	0.5725	0.4912		21.4	25.0	-14.2	50.0
Carbon tetrachloride	Ave	0.4879	0.3513		18.0	25.0	-28.0	50.0
Benzene	Ave	1.619	1.452		22.4	25.0	-10.3	50.0
1,2-Dichloroethane	Ave	0.6622	0.5877		22.2	25.0	-11.3	50.0
Trichloroethene	Ave	0.4247	0.3760		22.1	25.0	-11.5	50.0
Methylcyclohexane	Ave	0.5730	0.5384		23.5	25.0	-6.0	50.0
1,2-Dichloropropane	Ave	0.4379	0.3970		22.7	25.0	-9.3	20.0
Dibromomethane	Ave	0.3020	0.2736		22.6	25.0	-9.4	50.0
Bromodichloromethane	Ave	0.4809	0.4530		23.6	25.0	-5.8	50.0
2-Chloroethyl vinyl ether	Ave	0.3150	0.2988		119	125	-5.2	50.0
cis-1,3-Dichloropropene	Ave	0.5998	0.5624		23.4	25.0	-6.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	1.179	1.069		113	125	-9.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-7265-1

SDG No.:

Lab Sample ID: CCVIS 480-23902/2 Calibration Date: 07/18/2011 14:40

Instrument ID: HP5973P Calib Start Date: 07/13/2011 19:24

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 07/13/2011 21:28

Lab File ID: P4003.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
Toluene	Ave	2.000	1.705		21.3	25.0	-14.8	20.0
trans-1,3-Dichloropropene	Ave	1.144	1.032		22.6	25.0	-9.7	50.0
Ethyl methacrylate	Ave	1.146	1.023		22.3	25.0	-10.8	50.0
1,1,2-Trichloroethane	Ave	0.6933	0.6065		21.9	25.0	-12.5	50.0
Tetrachloroethene	Ave	0.8799	0.7206		20.5	25.0	-18.1	50.0
1,3-Dichloropropane	Ave	1.369	1.204		22.0	25.0	-12.1	50.0
2-Hexanone	Ave	0.8736	0.8062		115	125	-7.7	50.0
Dibromochloromethane	LinF		0.5876		16.6	25.0	-33.6	50.0
1,2-Dibromoethane	Ave	0.8544	0.7451		21.8	25.0	-12.8	50.0
Chlorobenzene	Ave	2.246	1.933	0.3000	21.5	25.0	-14.0	50.0
Ethylbenzene	Ave	3.686	3.235		21.9	25.0	-12.2	20.0
1,1,1,2-Tetrachloroethane	Lin1F		0.5878		17.9	25.0	-28.4	50.0 NC
m,p-Xylene	Ave	1.406	1.218		43.3	50.0	-13.3	50.0
o-Xylene	Ave	1.393	1.205		21.6	25.0	-13.5	50.0
Styrene	Ave	2.332	2.087		22.4	25.0	-10.5	50.0
Bromoform	QuaF		0.3758	0.1000	18.1	25.0	-27.6	50.0
Isopropylbenzene	Ave	3.242	2.876		22.2	25.0	-11.3	50.0
1,1,2,2-Tetrachloroethane	Ave	1.146	1.044	0.3000	22.8	25.0	-8.9	50.0
Bromobenzene	Ave	0.9879	0.8715		22.1	25.0	-11.8	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2941	0.2908		124	125	-1.1	50.0
1,2,3-Trichloropropane	Ave	0.3253	0.2818		21.7	25.0	-13.4	50.0
N-Propylbenzene	Ave	4.379	3.958		22.6	25.0	-9.6	50.0
2-Chlorotoluene	Ave	0.8485	0.7410		21.8	25.0	-12.7	50.0
1,3,5-Trimethylbenzene	Ave	2.746	2.418		22.0	25.0	-11.9	50.0
4-Chlorotoluene	Ave	0.8947	0.7638		21.3	25.0	-14.6	50.0
tert-Butylbenzene	Ave	0.5499	0.4596		20.9	25.0	-16.4	50.0
1,2,4-Trimethylbenzene	Ave	2.766	2.511		22.7	25.0	-9.2	50.0
sec-Butylbenzene	Ave	3.407	3.010		22.1	25.0	-11.7	50.0
4-Isopropyltoluene	Ave	2.770	2.425		21.9	25.0	-12.5	50.0
1,3-Dichlorobenzene	Ave	1.760	1.552		22.0	25.0	-11.8	50.0
1,4-Dichlorobenzene	Ave	1.831	1.593		21.8	25.0	-13.0	50.0
n-Butylbenzene	Ave	2.796	2.508		22.4	25.0	-10.3	50.0
1,2-Dichlorobenzene	Ave	1.737	1.527		22.0	25.0	-12.1	50.0
1,2-Dibromo-3-Chloropropane	Lin1F		0.1801		19.4	25.0	-22.4	50.0
1,2,4-Trichlorobenzene	Ave	1.185	1.071		22.6	25.0	-9.6	50.0
Hexachlorobutadiene	Ave	0.2388	0.2063		21.6	25.0	-13.6	50.0
Naphthalene	Ave	1.589	1.548		24.4	25.0	-2.5	50.0
1,2,3-Trichlorobenzene	Ave	0.5670	0.5236		23.1	25.0	-7.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2641	0.2180		20.6	25.0	-17.4	50.0
Toluene-d8 (Surr)	Ave	2.602	2.211		21.2	25.0	-15.0	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9146	0.7988		21.8	25.0	-12.7	50.0

FORM VII 8260B

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-7265-1

SDG No.:

Instrument ID: HP5973P Start Date: 07/18/2011 14:14

Analysis Batch Number: 23902 End Date: 07/19/2011 01:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-23902/1		07/18/2011 14:14	1	P4002.D	ZB-624 (60) 0.25(mm)
CCVIS 480-23902/2		07/18/2011 14:40	1	P4003.D	ZB-624 (60) 0.25(mm)
LCS 480-23902/3		07/18/2011 15:23	1	P4004.D	ZB-624 (60) 0.25(mm)
MB 480-23902/4		07/18/2011 15:48	1	P4005.D	ZB-624 (60) 0.25(mm)
480-7265-8	SW-04D	07/18/2011 16:13	1	P4006.D	ZB-624 (60) 0.25(mm)
480-7265-9	SWTR-1E	07/18/2011 16:38	1	P4007.D	ZB-624 (60) 0.25(mm)
480-7265-9 MS	SWTR-1E MS	07/18/2011 17:03	1	P4008.D	ZB-624 (60) 0.25(mm)
480-7265-9 MSD	SWTR-1E MSD	07/18/2011 17:28	1	P4009.D	ZB-624 (60) 0.25(mm)
480-7265-10	MW-16	07/18/2011 17:53	1	P4010.D	ZB-624 (60) 0.25(mm)
480-7265-11	MW-04	07/18/2011 18:17	1	P4011.D	ZB-624 (60) 0.25(mm)
480-7265-12	MW-03	07/18/2011 18:43	1	P4012.D	ZB-624 (60) 0.25(mm)
480-7265-13	NDP-WS	07/18/2011 19:08	1	P4013.D	ZB-624 (60) 0.25(mm)
480-7265-14	SWRT-1T	07/18/2011 19:33	4	P4014.D	ZB-624 (60) 0.25(mm)
480-7265-15	SDP-WS	07/18/2011 19:58	1	P4015.D	ZB-624 (60) 0.25(mm)
480-7265-16	FD-071311	07/18/2011 20:23	1	P4016.D	ZB-624 (60) 0.25(mm)
480-7265-17	TRIP BLANK	07/18/2011 20:47	1	P4017.D	ZB-624 (60) 0.25(mm)
ZZZZZ		07/18/2011 21:12	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/18/2011 21:37	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/18/2011 22:02	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/18/2011 22:27	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/18/2011 22:52	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/18/2011 23:17	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/18/2011 23:42	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/19/2011 00:07	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/19/2011 00:32	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/19/2011 00:57	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/19/2011 01:22	1		ZB-624 (60) 0.25(mm)

APPENDIX E

WELL INSPECTION FORMS

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176167

DATE: 7/12/2011

TIME: 13:35

WELL ID: MW-03

EXTERIOR INSPECTION

PROTECTIVE CASING: OK

LOCK/HASP: New locks installed. Used URS' keyed locks.

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: 3.01

DEPTH TO BOTTOM: 17.25 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: SIGNATURE APPROVAL:

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176167

DATE: 7/12/2011

TIME: 13:45

WELL ID: MW-4

EXTERIOR INSPECTION

PROTECTIVE CASING: OK

LOCK/HASP: New locks installed. Used URS' keyed locks.

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: 2.52

DEPTH TO BOTTOM: 17.55 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: SIGNATURE APPROVAL:

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176167

DATE: 7/12/2011

TIME: 14:00

WELL ID: MW-16

EXTERIOR INSPECTION

PROTECTIVE CASING: OK

LOCK/HASP: New locks installed. Used URS' keyed locks.

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: 3.50

DEPTH TO BOTTOM: 11.6 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: SM SIGNATURE APPROVAL:

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176167

DATE: 7/12/2011

TIME: 14:35

WELL ID: SW-01S

EXTERIOR INSPECTION

PROTECTIVE CASING: OK

LOCK/HASP: New locks installed. Used URS' keyed locks.

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: 18.56

DEPTH TO BOTTOM: 28.4 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: SM SIGNATURE APPROVAL:

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176167

DATE: 7/12/2011

TIME: 14:37

WELL ID: SW-01D

EXTERIOR INSPECTION

PROTECTIVE CASING: OK

LOCK/HASP: New locks installed. Used URS' keyed locks.

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: 67.37

DEPTH TO BOTTOM: 83.9 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: SM SIGNATURE APPROVAL: C. [illegible]

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176167

DATE: 7/12/2011

TIME: 14:48

WELL ID: SW-02S

EXTERIOR INSPECTION

PROTECTIVE CASING: OK

LOCK/HASP: New locks installed. Used URS' keyed locks.

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: 11.30

DEPTH TO BOTTOM: 20.05 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: SIGNATURE APPROVAL:

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176167

DATE: 7/12/2011

TIME: 14:50

WELL ID: SW-02D

EXTERIOR INSPECTION

PROTECTIVE CASING: OK

LOCK/HASP: New locks installed. Used URS' keyed locks.

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: 70.73

DEPTH TO BOTTOM: 79.16 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: SM SIGNATURE APPROVAL: C. Duff

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176167

DATE: 7/12/2011

TIME: 14:40

WELL ID: SW-03S

EXTERIOR INSPECTION

PROTECTIVE CASING: OK

LOCK/HASP: New locks installed. Used URS' keyed locks.

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: 11.85

DEPTH TO BOTTOM: 18.77 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: SM SIGNATURE APPROVAL:

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176167

DATE: 7/12/2011

TIME: 14:20

WELL ID: SW-04S

EXTERIOR INSPECTION

PROTECTIVE CASING: OK

LOCK/HASP: New locks installed. Used URS' keyed locks.

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: 2.95

DEPTH TO BOTTOM: 8.22 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS:

SIGNATURE INSPECTOR: SOM SIGNATURE APPROVAL:

LOCK KEY # 2246

MONITORING WELL INSPECTION FORM

SITE NAME: Rose Valley Landfill

JOB#: 11176167

DATE: 7/12/2011

TIME: 14:15

WELL ID: SW-04D

EXTERIOR INSPECTION

PROTECTIVE CASING: OK

LOCK/HASP: New locks installed. Used URS' keyed locks.

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: Not measured.

DEPTH TO BOTTOM: 83.35 HARD/SOFT BOTTOM Soft

OTHER:

COMMENTS: Artesian well.

SIGNATURE INSPECTOR: Sm SIGNATURE APPROVAL: C

LOCK KEY # 2246

APPENDIX F

LANDFILL INSPECTION FORM

ROSE VALLEY LANDFILL SITE – POST CLOSURE

NYSDEC SITE NO. 622017

INSPECTION LOG SHEET

Date: 7/13/11 **Inspector:** Chuck Dusel

Weather: partly cloudy - rain **Signature:** C Dusel

Temperature: ~85° F **Company:** URS Corp.

Type: Winter Spring Summer Fall
(Circle One)

Item Inspected	Maintenance Needed (Y/N)	Comments	Inspector's Initials
Drainage Channel	yes	Needs to be weedwacked	CD.
Groundwater Monitoring Wells	No	conducted annual sampling event/replaced locks on M. wells	CD
Perimeter Access Road	yes		
Vegetative Cover	yes	scheduled to be Mowed in Sept 2011	CD.
Repaired Vegetation	erosion	otherwise good condition / repairs to west side of LF completed FALL 2010 in good shape - veg. cover growing up thru erosion mat	CD.
Final Cover Layers (Cap Settlement, etc.)	No	good Condition	CD.
Gas Vents	No	good condition	CD
Fence and Gates	No	good condition	CD
Other Items: (Specify) Site access Road	Yes	site access Road between RV area (see photos) + site has significant erosion rills	CD.
Other Items: (Specify) North & South	yes	a fair amount of sediment in both basins	CD.
Two Jersey Barriers	yes	erosion underneath (see photos)	CD

LANDFILL CAP AND SITE STORMWATER MANAGEMENT SYSTEM

MINIMUM CHECKLIST FOR ROUTINE INSPECTIONS

ROSE VALLEY LANDFILL

NYSDEC SITE NO. 622017

Component	Item	Number/Location/ Area Checked	Condition
Cap Grading	Obvious subsidences, depressions, or cracks None Evidence of ponded water NO Stressed vegetation None Signs of erosion occurring at a localized change in grade NO Evidence of Breaching of toe NO Animal burrows None Other:	entire cap was inspected	good condition
Cap Vegetation and Repaired Vegetation	Areas of sparse, dead, or missing vegetation None Small rill erosion None observed Animal burrows None Other:	entire cap	good condition
Drainage Channel	Missing or displaced stones None Woody vegetation growing in the stones or grass cover Yes - starting - woody/brush	all	removed some future removal necessary
GW Monitoring Wells	Condition of lock and cover New Signs of damage to casing or collar NO Condition of weep hole from casing Evidence of tampering NO Other:	wells were sampled + gwl H2O ▽ measured	see m. well inspection logs.

Component	Item	Number/Location/ Area Checked	Condition
Fences, Gates and Perimeter Access Road	Cutting or bending of fence fabric No Missing locks, hinges, etc. from gates No Motorbike or snowmobile tracks yes Shotgun shell casings No Beer cans or other trash some Other signs of access or vandalism ATV Condition of access road surface see note → Other:	entire fence line inspected	tracks from ATVs, etc. were observed on site access Rd on top of landfill also erosion rills See photos.
Gas Vent	Integrity of pipes and joints OKAY Plumbness and differential settlement NONE Obstruction of vents by bird, insect or animal nests None Corrosion or deterioration of pipes or supports No Localized browning of vegetation None Other:	Spot Check	good condition

APPENDIX G

2010 INTERMITTENT MAINTENANCE

CONSTRUCTION REPORT
AND
PHOTO LOG

URS

77 Goodell Street

Buffalo, New York 14203
(716) 856-5636

DATE 9/22/2010

DAY	S	M	T	W	TH	F	S

DAILY CONSTRUCTION REPORT

WEATHER	Bright Sun	Clear	Overcast	Rain	Snow
TEMP	To 32	32-50	50-70	70-85	85 and up
WIND	Still	Moder	High	Report No. 1	
HUMIDITY	Dry	Moder	Humid		

PROJECT: Rose Valley Landfill
OWNER: NYSDEC
CONTRACT No. D004440-26
CONTRACTOR Environmental Products and Services (EPS)
URS JOB No. 11176167
URS PROJECT MANAGER: Chuck Dusel

AVERAGE FIELD FORCE

Name of Contractor	Non-manual	Manual	Remarks
URS	1		Inspector/Oversight
EPS	1	3	Supervisor, 2 operators, 1 laborer

VISITORS

Time	Representing	Representing	Remarks

EQUIPMENT AT THE SITE

2 ton flatbed, 2 bobcats, mower
9 rolls of erosion mat (6.67-feet wide, 80 yd^2 per roll), 13 yd^3 topsoil,
3 15-pound bags grass seed (3,750 ft2/bag). Only 2 of 3 bags used. Copy of grass seed tag attached.

CONSTRUCTION ACTIVITIES

0900 - Arrive on site.
Bobcat used to place fill material and regrade eroded areas.
Contractor using bobcat (Brushcat 6X7) to mow grass on landfill.
Soil/sandy material taken from borrow source on west side of landfill and used to backfill eroded areas.
Topsoil spread with bobcat and manual shoveling. Seeded applicable areas.
Erosion mat placed over regraded areas and seeded. Three to four-inch fabric overlap at seams. Mat was secured using staples.
Channels in northeastern portion of landfill were inspected and are in good shape.
1545 - Site seeding completed.
1630 - Left site.

Recommendation:

Spray RoundUp (or similar herbicide) to control poplar tree growth in rock-lined ditches.

Note:

Contractor will complete installation of erosion fabric and fine grading on 9/23/11.
Contractor will send URS copies of photographs which will document the completed work.

SHEET 1 OF 1

X - designates info on backside of page

BY Chuck Dusel TITLE Inspector, URS Project Manager
REVIEWED BY: G. Kisluk

LOT NUMBER: L144-9-FSIGNE17G
TEST DATE: 4/10
SELL BY: 7/11
(In AZ, CA, CO, DE, IL, MD, MN, NH, NJ, NY, OH, PA and VT)

SIGNATURE SERIES NORTHEAST LAWN MIXTURE

PURE SEED	VARIETY	KIND	GERMINATION	ORIGIN
29.00%	INTEGRA	PERENNIAL RYEGRASS	90%	OR
29.00%	JET	PERENNIAL RYEGRASS	90%	OR
19.40%	MOONSTRUCK	KENTUCKY BLUEGRASS	80%	WA
9.70%	ORACLE	RED FESCUE	80%	CANADA
9.70%	SHADOW II	CHEWINGS FESCUE	80%	OR

0.80% OTHER CROP SEED
2.30% INERT MATTER
0.10% WEED SEED
NOXIOUS WEED SEED:
NONE FOUND PER POUND
PENNINGTON SEED INC.
270 HANSARD AVENUE
LEBANON, OR 97355

NET WEIGHT: 15 POUNDS

PS#118728

32/5

10130610

0 21496 22535 7

SITE PHOTOGRAPHS

Photo Date 09-22-10. Looking north, skid steer being used to backfill and grade erosion swales.

Photo Date 09-23-10. Looking west, site access gate and newly installed erosion matt pinned into soil.

SITE PHOTOGRAPHS

Photo Date 09-23-10. Looking northeast at mowed landfill.

Photo Date 09-23-10. Looking north at Bobcat mowing landfill.

SITE PHOTOGRAPHS

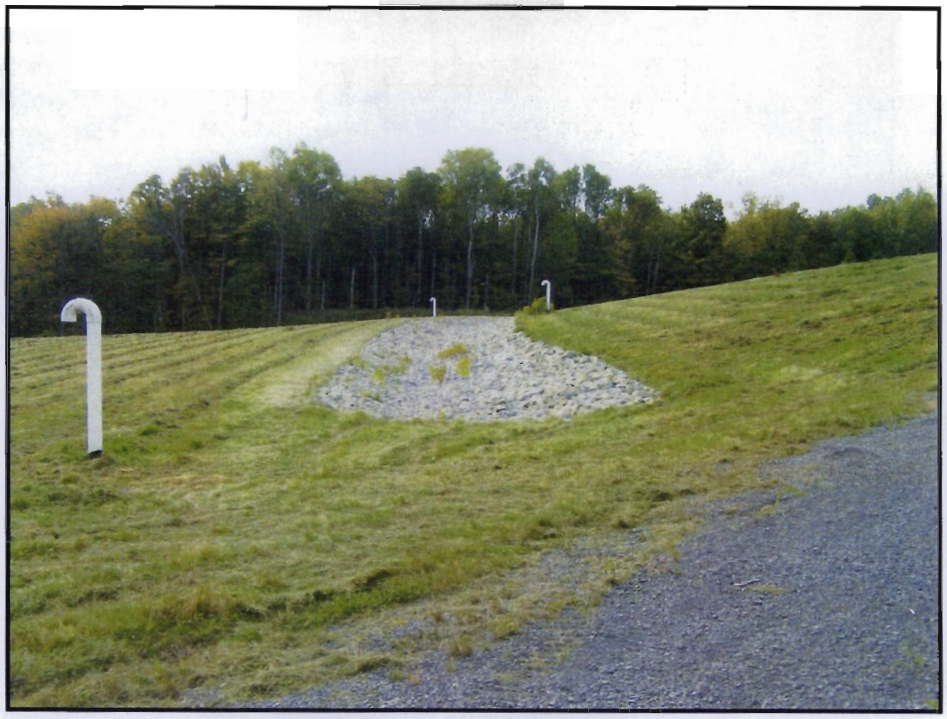

Photo Date 09-23-10. South view of mowed landfill.

Photo Date 09-23-10. Southeast view of mowed landfill.

SITE PHOTOGRAPHS

Photo Date 09-23-10. Northwest view of mowed landfill and erosion matt.

Photo Date 09-23-10. North view of newly installed erosion matt. Approximate dimensions are 310' long x 18' wide.

SITE PHOTOGRAPHS

Photo Date 09-23-10. East view of mowed landfill with north detention basin in background.