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NC DENR

Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Pilot Environmental, Inc. and Modulus, PLLC

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Toby S. Benfield Phone: 336-310-4527 ext 106

E-mail: TBenfield@PilotEnviro.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Davidson County Holly Grove Landfill	1242 Old Highway 29, Thomasville, North Carolina, 27360	29-02	.0500	March 23, 2016

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☒ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Mr. Aric V. Geda, P.E. Principal Engineer 919-800-9093

Facility Representative Name (Print) Title (Area Code) Telephone Number

05/18/2016 Affix NC Licensed/ Professional Geologist Seal

Signature Date

NORTH CAROLINA PROFESSIONAL SEAL 035138 ENGINEER ARIC V. GEDA 05/18/2016

216 Graham Road, Graham NC 27253

Facility Representative Address

P-1176

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

MARCH 2016 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

DAVIDSON COUNTY HOLLY GROVE LANDFILL
NORTH CAROLINA SOLIDWASTE PERMIT NUMER 29-02

PREPARED FOR:
DAVIDSON COUNTY INTEGRATED SOLID WASTE
1242 OLD HIGHWAY 29
THOMASVILLE, NORTH CAROLINA 27360-0024

PREPARED BY:
PILOT ENVIRONMENTAL, INC
743 PARKLAWN COURT
KERNERSVILLE, NORTH CAROLINA 27285

MAY 18, 2016
PEI PROJECT NO. 1763

PILOT ENVIRONMENTAL INC

May 18, 2016

Mr. Steven Sink
Davidson County Integrated Solid Waste
1242 Old Highway 29
Thomasville, NC 27360-0024

Reference: March 2016 Semi Annual Groundwater Monitoring Report
Davidson County Holly Grove Landfill
Lexington, North Carolina
North Carolina Solid Waste Permit Number 29-02
PEI Project 1763

Dear Mr. Sink:

Pilot Environmental, Inc. (PEI) is pleased to submit the 2016 Semi-Annual Groundwater Monitoring report for the above referenced site. Included in this report is a description of the field activities, the results obtained and our conclusions.

We appreciate the opportunity to provide our services to you. If you have any questions regarding our assessment of the subject site or our conclusions, please contact us at 336.310.4527.

Sincerely,

Toby S. Benfield
Project Manager

Aric V. Geda, P.E.
Principal Engineer
NC License No. 035138

NORTH CAROLINA PROFESSIONAL SEAL 035138 ENGINEER ARIC V. GEDA 05/18/2016

Davidson County Holly Grove Landfill
NC Solid Waste Permit No 29-02
March 2016 Semi-Annual Groundwater Monitoring Report

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1.0 INTRODUCTION

Pilot Environmental, Inc. (PEI) was contracted by Davidson County to conduct semi-annual groundwater monitoring at the Davidson County Holly Grove Landfill, permit number 29-02 as required by 15A NCAC 13B .0500. Sampling was conducted on March 23 and 24, 2016. This report summarizes the sampling procedures, field and laboratory results and groundwater characterization as required by North Carolina Solid Waste Regulations. Drawings, summary tables and laboratory analytical reports are included.

Three landfills are currently monitored under 29-02 as the Holly Grove Landfill due to their close proximity to one another. Areas 1 and 2, located within the Holly Grove Landfill, were unlined municipal solid waste facilities owned and operated by Davidson County Integrated Solid Waste. The third area, the Scarlett Landfill located west of Areas 1 and 2, is a private landfill originally owned and operated by Mr. Scarlett, then owned by Ms. Virginia White who sold the Scarlett property to Hale Artificier, Inc. in 2001. This property is currently used to house storage containers.

2.0 SITE GEOLOGY

The Davidson County Holly Grove Landfill facility is located in the Piedmont Physiographic Province of North Carolina. The Piedmont Physiographic Province generally consists of hills and ridges which are dissected by a system of swales and streams. The Piedmont Physiographic Province is predominantly underlain by metamorphic rock (formed by heat, pressure and/or chemical action) and igneous rock (formed directly from molten material). The topography and relief of the Piedmont Physiographic Province has developed from differential weathering of the igneous and metamorphic rock. Ridges and hills have been developed in areas of less weathered rock. Because of the continued chemical and physical weathering, rock in the Piedmont Physiographic Province is generally covered with a mantle of soil that has weathered in place from the parent bedrock. These soils vary in thickness and are referred to as residuum or residual soils. The residuum is typically finer grained and has higher clay content near the surface because of the advanced weathering. Similarly, the soils typically become coarser grained with increasing depth because of decreased weathering. As the weathering decreases, the residual soils generally retain the overall appearance, texture and foliations of the parent rock.

According to the Geologic Map of North Carolina (USGS 1985), the site lies within the Carolina Slate Belt in an area of predominantly volcanic and sedimentary rocks of Late Proterozoic to Cambrian age that have been metamorphosed and intruded by numerous igneous plutons. The boundary zone between the Carolina Slate Belt and the adjacent Charlotte Belt is known as the Gold Hill/Silver Hill shear zone. The site and surrounding property appear to be underlain by volcanic rocks from the Flat Swamp Member of the CID Formation and metavolcanic rocks of the Battleground Formation.

3.0 SAMPLING LOCATIONS

The groundwater monitoring network for the Davidson County Holly Grove Landfill includes sixteen monitoring wells (MW-1A, MW-2, MW-3A, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16 and MW-17) and three surface water samples (SW-1, SW-2 and SW-3). The upgradient well for the Holly Grove Landfill is MW-1S, the background monitoring well for the Phase I Lined Landfill. That information is included as MW-4. A trip blank was submitted for quality control purposes. Sample locations are shown on Drawing 1. Available monitoring well logs are included in Appendix A.

4.0 SAMPLING PROCEDURES

Sampling procedures followed the protocols outlined in the Water Quality Monitoring Plan and the North Carolina Department of Environmental Quality (NCDEQ) Division of Waste Management Water Quality Monitoring Guidance Document for Solid Waste Facilities.

Prior to sampling, PEI personnel measured the depth to groundwater in each well. Following measurement of groundwater depth, each well was purged by removing three to five well volumes or until dry twice. Groundwater elevations are provided in Table 1.

Laboratory prepared containers were provided by Research and Analytical Laboratories, Inc. in Kernersville, North Carolina (North Carolina Laboratory Certification Number 34). After being filled, the sample containers were appropriately labeled, placed into a cooler containing ice to maintain temperature control and transported to the laboratory facility within the specified hold time for each analysis.

Sampling wells and surface water sample locations were inspected and observed to be in good condition and free of obstruction at the time of sampling.

5.0 RESULTS

5.1 FIELD RESULTS

Temperature, pH, specific conductance and turbidity were measured in the field at the time of sampling. The field parameter results are summarized in Table 2.

5.2 LABORATORY ANALYSIS

Samples were transported to R&A Laboratories where they were analyzed for metals using EPA Method 200.7 and Volatile Organic Compounds (VOCs) using EPA Method 8260B.

Analytical results were compared to the NCDEQ DWM SWS Quantitation Limits (SWSLs), 15A NCAC 2L.0200 Groundwater Quality Standards (2L Standards), SWS established Groundwater Protection Standards (GWP) and the Federal Maximum Contaminant Limits (MCLs). Analytical results of surface water samples were compared with the NCAC 2B Standard for Class C waters (2B Standards)

Most constituents were reported below the method detection limit (MDL) or at non-quantifiable values (J-value) defined by the laboratory as between the MDL and the SWL.

5.2.1 Inorganic Constituents

Laboratory analysis detected low solubility metal analytes at concentrations above their respective 2L Standards, GWP Standards or SWSLs. Cobalt was detected at a concentration above the 2L Standard in monitoring wells MW-9, MW-10, MW-11 and MW-13 and total chromium was detected at a concentration above the 2L Standards in MW-9. A summary of laboratory analytical results for inorganic constituents is provided in Table 3.

5.2.2 Organic Constituents

The following constituents were detected at concentrations above their 2L Standard.

1,1-dichloroethane (MW-1A, MW-6 and MW-12)
1,2-dichloropropane (MW-1A)
1,2-dichloroethane (MW-1A)
1,4-dichlorobenzene (MW-13)
Benzene (MW-1a, MW-8, MW-9 and MW-13)
Vinyl Chloride (MW-1A)

A summary of laboratory analytical results for organic constituents is provided in Table 4.

5.2.3 Surface Water

Laboratory analysis of surface water samples did not detect constituents at concentrations above the 2B Standards. A summary of laboratory analytical results is provided in Tables 3 and 4.

6.0 GROUNDWATER CHARACTERIZATON

A potentiometric surface map was prepared from groundwater elevation data collected during this sampling event. Based on groundwater elevation data measured during this sampling event, groundwater flow direction was determined to be to the northwest, consistent with historic groundwater flow patterns at the site. The potentiometric surface map is included as Drawing 1.

Groundwater flow velocities were also calculated for this sampling event. Groundwater flow velocities were calculated for monitoring wells using the equation:

$$V = Ki/n$$

Where: V = *average velocity of groundwater flow*
K = *hydraulic conductivity*
i = *groundwater gradient*
n = *porosity*

Groundwater velocities ranged from 0.018 ft/day (MW-3a) to 1.365 ft/day (MW-15) with an average of 0.557 ft/day. A summary of the measurements and calculations are provided in Table 5.

7.0 CONCLUSIONS

Based on the results of the laboratory analysis, PEI concludes the following:

Laboratory analysis detected cobalt at a concentration above the 2L Standard in monitoring wells MW-9, MW-10, MW-11 and MW-13 and total chromium at a concentration above the 2L Standards in MW-9.

The analytical results for the Holly Grove Landfill are consistent with historic detections. Inorganic concentrations detected are likely due to variations in naturally occurring constituents or elevated turbidity in the groundwater monitoring well at the time of sampling and are not indicative of groundwater impact from the landfill.

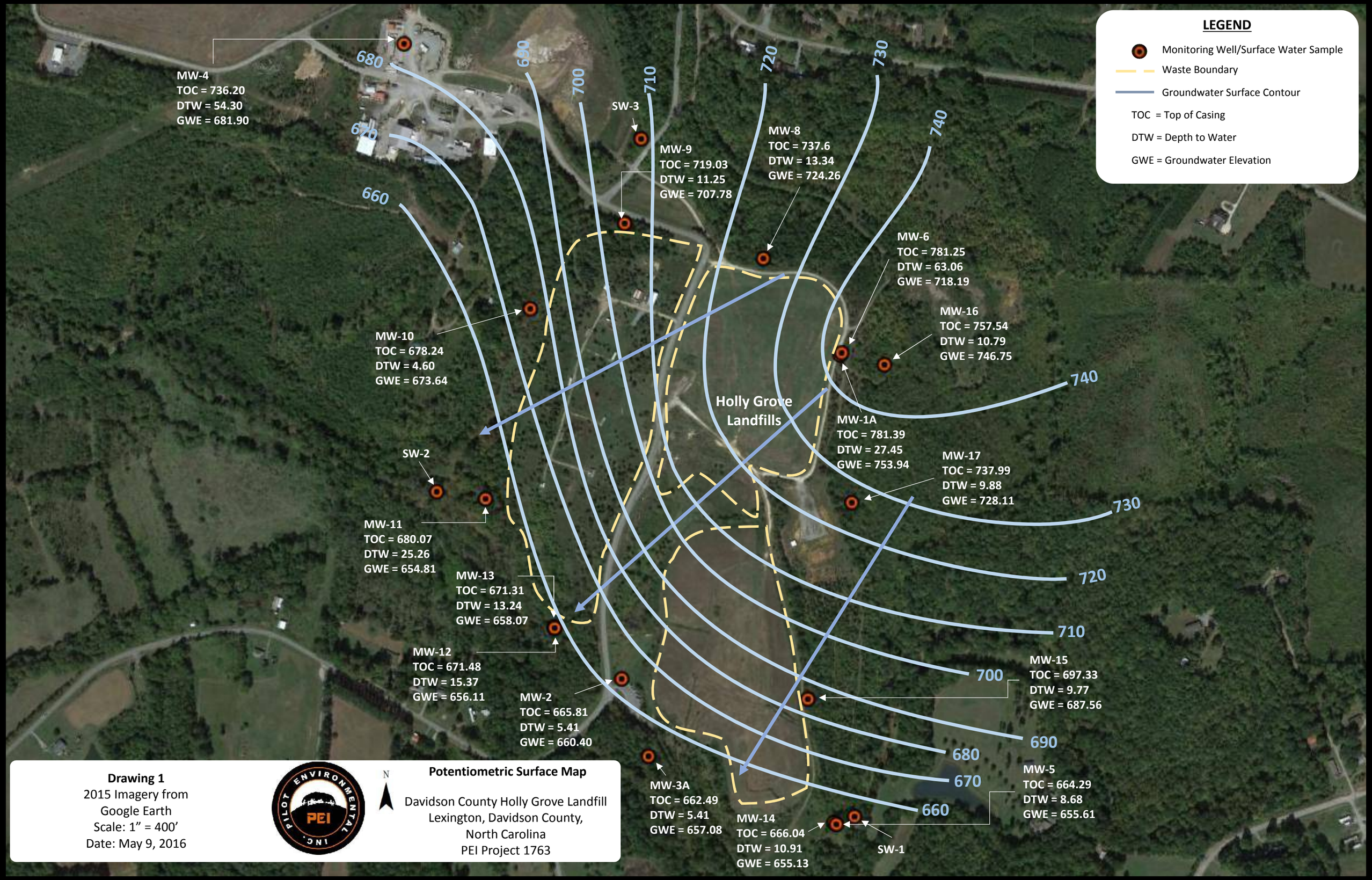
Volatile organic compounds were detected in several monitoring wells at the site. The results appear to be consistent with historical detections. Surface water samples did not detect concentrations above 2B Standards.

8.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in groundwater assessment projects of this type. Our evaluation of site conditions has been based on our understanding of the site project information and the data obtained during our field activities. This report was prepared for the express use of Davidson County Integrated Solid Waste.

DRAWINGS

Drawing 1 Potentiometric Map



Drawing 1
2015 Imagery from
Google Earth
Scale: 1" = 400'
Date: May 9, 2016

Potentiometric Surface Map

Davidson County Holly Grove Landfill
Lexington, Davidson County,
North Carolina
PEI Project 1763

TABLES

Table 1	Groundwater Elevations
Table 2	Field Parameters
Table 3	Summary of Groundwater Analytical Results Inorganic Parameters
Table 4	Summary of Groundwater Analytical Results Organic Parameters
Table 5	Groundwater Velocity Calculations

TABLE 1
Groundwater Elevations
Davidson County Holly GroveLandfill
March 23, 2016

Monitoring Well	Well Installation Date	Latitude	Longitude	Well Diamter (Inches)	Total Well Depth (feet bgs)	Ground Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Water* (feet)	Groundwater Elevation (feet)	Screen Interval (feet bgs)	Screen Geology
MW-1A	1/23/1990	35.83753	80.17098	2.0	37.5	778.68	781.39	27.45	753.94	27.5-37.5	metavolcanic bedrock
MW-2	9/22/1987	35.84139	80.18294	2.0	16.8	704.59	665.81	5.41	660.40	11.8-16.8	diorite
MW-3A	1/23/1990	35.83236	80.17402	2.0	32.0	659.80	662.49	5.41	657.08	22.0-32.0	metavolcanic bedrock
MW-4**	6/19/1991	35.84160	80.17795	2.0	62.5	731.10	736.20	54.30	681.90	47.5-62.5	schist
MW-5	10/27/1992	35.84468	80.17803	2.0	25.0	682.10	664.29	8.68	655.61	10.0-25.0	metavolcanic bedrock
MW-6	7/30/1997	35.84490	80.17870	2.0	65.0	676.29	781.25	63.06	718.19	55.0-65.0	diorite
MW-8	7/29/1997	35.84438	80.18226	2.0	57.0	661.31	737.60	13.34	724.26	47.0-57.0	diorite
MW-9	7/25/1997	35.83928	80.17440	2.0	21.0	717.65	719.03	11.25	707.78	11.0-21.0	clayey silty sand & diorite
MW-10	7/30/1997	35.84356	80.18383	2.0	13.0	667.00	678.24	4.60	673.64	5.5-13.0	clayey silt and diorite
MW-11	7/29/1997	35.84274	80.18392	2.0	38.0	689.22	680.07	25.26	654.81	28.0-38.0	diorite
MW-12	7/30/1997	35.84194	80.18391	2.0	65.0	709.29	671.48	15.37	656.11	55.0-65.0	diorite
MW-13	7/29/1997	35.83406	80.17554	2.0	22.5	668.59	671.31	13.24	658.07	12.5-22.5	sandy silt and granite
MW-14	7/24/1997	35.83152	80.17106	2.0	42.0	664.78	666.04	10.91	655.13	32.0-42.0	diorite
MW-15	7/25/1997	35.83310	80.17147	2.0	23.5	696.01	697.33	9.77	687.56	8.5-23.5	silty clay and granite
MW-16	12/7/2000	35.83744	80.17023	2.0	50.0	755.47	757.54	10.79	746.75	30.0-50.0	diorite
MW-17	12/7/2000	35.83656	80.17076	2.0	39.5	734.74	737.99	9.88	728.11	29.5-39.5	diorite

Notes:
amsl = above mean sea level
bgs = below ground surface
TOC = Top of casing
*Depth to water measured from TOC
**MW-4 is the same well as MW-1S associasted with Phase I Lined Landfill

TABLE 2
Field Parameters
Davidson County Holly Grove Landfill
March 23, 2016

Monitoring Well	pH (Standard Units)	Conductivity (umho)	Temperature (celsius)	Turbity (NTU)
MW-1A	6.58	159	17.1	7.1
MW-2	7.24	149	21.1	2.02
MW-3A	7.23	328	16.4	3.13
MW-4*	6.28	65.4	17.4	4.69
MW-5	6.73	266	18.9	3.41
MW-6	7.58	486	16.2	14.4
MW-8	6.89	460	20.3	5.49
MW-9	6.55	570	13.7	103.5
MW-10	6.74	704	12.4	22.9
MW-11	6.58	480	14.7	5.59
MW-12	6.82	622	15.4	7.09
MW-13	6.36	586	13.9	5.8
MW-14	6.71	250	17.6	2.45
MW-15	6.97	295	18.2	8.2
MW-16	7.28	405	22.8	17.4
MW-17	6.82	702	17.1	6.84
SW-1	6.87	296	12.2	9.3
SW-2	7.65	322	12.9	5.2

Notes:
* MW-4 is the same well as MW-1S associated with the Phase I Lined Landfill

TABLE 3
Summary of Analytical Results - Inorganic Parameters
Davidson County Holly Grove Landfill
March 23, 2016

Parameter	GROUNDWATER SAMPLING																			Comparison Criteria					
Sample ID	**MW-1A**	**MW-2**	**MW-3A**	**MW-4***	**MW-5**	**MW-6**	**MW-8**	**MW-9**	**MW-10**	**MW-11**	**MW-12**	**MW-13**	**MW-14**	**MW-15**	**MW-16**	**MW-17**	**SW-1**	**SW-2**	**SW-3**	**MDL**	**MRL**	**SWSL**	**2L or GWP Standard**	**MCL**	**2B Standard**
Inorganic Consituents																									
antimony	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9	5	6	1#	6	640
arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.4	10	10	10	10	10
barium	98.6J	111	24.7J	47.0J	41.9J	31.3J	39.8J	187	157	123	67.4J	180	30.8J	31.6J	29.6J	212	15.9J	20.8J	70.2J	1.3	40	100	700	2,000	2,000,000
beryllium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4	1	1	4#	4	6.5
cadmium	0.505J	0.395J	0.440J	BDL	BDL	BDL	0.425J	BDL	0.415J	0.770J	0.470J	BDL	0.335J	0.370J	0.450J	0.355J	BDL	BDL	0.035J	0.3	1	1	2	5	2
cobalt	BDL	6.78J	BDL	BDL	BDL	BDL	BDL	**20.5**	**12.6**	**44.1**	BDL	**27.5**	BDL	4.14J	BDL	4.10J	BDL	BDL	BDL	1.5	10	10	1#	NE	270
copper	BDL	BDL	BDL	3.26J	BDL	1.82J	3.64J	22.3	8.64J	BDL	1.82J	BDL	BDL	3.36J	BDL	1.56J	1.14J	1.26J	1.72J	1.1	10	10	1,000	1,300	7
chromium (total)	6.49J	4.44J	BDL	BDL	BDL	6.82J	4.38J	**19.9**	5.35J	0.421J	1.38J	8.40J	BDL	3.44J	BDL	1.40J	BDL	BDL	BDL	1.3	10	10	10	100	50
lead	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.93J	BDL	1.7	5	10	15	15	28
nickel	BDL	BDL	BDL	BDL	BDL	BDL	6.46	10.9J	25.1J	14.3J	6.04J	31.4J	BDL	2.85J	BDL	BDL	2.16J	2.27J	3.08J	1.7	10	50	100	NE	88
selenium	8.16J	6.39J	BDL	BDL	BDL	BDL	BDL	3.0J	4.64J	4.11J	BDL	5.98J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	10	10	20	50	5
silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.8	10	10	20	100	0.06
vanadium	BDL	BDL	BDL	3.03J	BDL	2.59J	BDL	15.7J	6.51J	BDL	BDL	1.90J	2.07J	3.76J	2.59J	BDL	BDL	BDL	BDL	1.8	10	25	0.3#	NE	NE
zinc	18.3	14.7	23	14.8	14.2	30.6	16.1	44.1	19	16.5	13.2	22.4	17.6	21	18.7	19.1	22.5	17.6	37.2	2.9	10	10	1,000	5,000	50

Notes:
MDL = Method Detection Limit
MRL = Method Reporting Limit
SWSL = Solid Waste Section Quantitation Limits
2L= NCDEQ Groundwater Standards (15A NCAC 2L 0200)
GWP = Solid Waste Section Groundwater Protection Standards (noted by #)
MCL = Federal Maximum Contaminant Limit
2B = NCAC 2B Standards for Class C waters
NE = Standard Not Established
Results presented in ug/l, analogous to parts per billion (ppb)
BDL = Compound not detected at a concentration above the MDL
Bold denotes concentration exceeds the 2L or GWP Standard
J = Estimated concentration detected at concentration between the MDL and SWSL
*MW-4 is the same well as MW-1S associated with the Phase I Lined Landfill

TABLE 4
Summary of Analytical Results - Organic Parameters
Davidson County Holly Grove Landfill
March 23, 2016

Parameter	GROUNDWATER SAMPLING																			Comparison Criteria				
Sample ID	**MW-1A**	**MW-2**	**MW-3A**	**MW-4***	**MW-5**	**MW-6**	**MW-8**	**MW-9**	**MW-10**	**MW-11**	**MW-12**	**MW-13**	**MW-14**	**MW-15**	**MW-16**	**MW-17**	**SW-1**	**SW-2**	**SW-3**	**MDL**	**MRL**	**SWSL**	**2L Standard**	**MCL**
Organic Consituents																								
1,1-dichloroethene	0.17J	BDL	0.15J	BDL	BDL	BDL	0.32J	BDL	BDL	BDL	0.90J	0.15J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.5	5	7	7
1,1-dichloroethane	**21.3**	BDL	4.23J	BDL	0.30J	**10.2**	19.8	0.36J	BDL	2.15J	**9.39**	4.87J	BDL	BDL	BDL	4.1J	BDL	BDL	BDL	0.2	0.5	5	6	NE
1,2-dichloropropane	**4.12**	BDL	BDL	BDL	BDL	0.63J	0.26J	BDL	BDL	0.28J	0.37J	BDL	1.81J	BDL	BDL	0.28J	BDL	BDL	BDL	0.1	0.5	1	0.6	5
1,1,2-trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.87J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2	0.5	1	200	5
1,2-dichloroethane	**1.66**	BDL	BDL	BDL	BDL	BDL	0.24J	BDL	BDL	BDL	0.48J	0.12J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.5	1	0.4	5
1,2-dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.26J	BDL	0.61J	0.48J	0.91J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.5	5	20	600
1,3-dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.22J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.5	5	200	NE
1,4-dichlorobenzene	4.9	0.46J	0.54J	BDL	BDL	BDL	0.26J	4.19	BDL	1.86	4.91	**6.02**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.5	1	6	75
cis-1,2-dichloroethene	41	BDL	0.56J	BDL	0.43J	BDL	0.86J	0.29	BDL	0.39J	0.35J	BDL	0.24J	BDL	BDL	0.93J	BDL	BDL	BDL	0.1	0.5	5	70	70
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.10J	BDL	6.57J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	25	100	6,000	NE
benzene	**4.78**	BDL	0.31J	BDL	0.11J	BDL	**1.33**	**2.86**	BDL	0.26J	0.96J	**3.2**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.5	1	1	5
chlorobenzene	0.57J	1.51J	0.32J	BDL	BDL	BDL	BDL	6.18	BDL	4.1	4.62	20.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.5	3	50	100
chloroethane	5.11J	BDL	0.56J	BDL	0.94J	BDL	1.49J	0.84J	BDL	0.36J	9.50J	44	0.32J	BDL	BDL	0.26J	BDL	BDL	BDL	0.1	1	10	3,000	NE
trans-1,2-dichloroethene	0.66J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.5	5	100	100
toulene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.42J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.3	0.5	1	600	1,000
tetrachloroethene	BDL	BDL	BDL	BDL	BDL	0.58J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2	0.5	1	0.7	5
trichloroethene	0.57J	BDL	BDL	BDL	BDL	BDL	2.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.5	1	3	5
trichloroflouromethane	BDL	0.28J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.39	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.5	1	2,000	NE
vinyl chloride	**1.72**	BDL	0.30J	BDL	BDL	BDL	0.35J	BDL	BDL	0.45J	BDL	0.40J	0.1J	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.5	1	0.3	2
xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.95J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.3	1	5	500	10,000

Notes:
MDL = Method Detection Limit
MRL = Method Reporting Limit
SWSL = Solid Waste Section Quantitation Limits
2L= NCDEQ Groundwater Standards (15A NCAC 2L 0200)
MCL = Federal Maximum Contaminant Limit
NE = Standard Not Established
Results presented in ug/l, analogous to parts per billion (ppb)
BDL = Compound not detected at a concentration above the MDL
Bold denotes concentration exceeds the 2L Standard
J = Estimated concentration detected at concentration between the MDL and SWSL
*MW-4 is the same well as MW-1S associated with the Phase I Lined Landfill

TABLE 5
Groundwater Velocity Calculations
Davidson County Holly Grove Landfill
March 23, 2016

Monitoring Well	Aquifer	Conductivity (ft/day)	Conductivity (ft/min)	Assumed Porosity (n)	Gradient (i)	Velocity (ft/day)
MW-2	Uncosolidated	1.440	1.00E-03	0.20	0.076	0.547
MW-3A	Bedrock	0.105	7.27E-05	0.15	0.026	0.018
MW-5	Bedrock	1.814	1.26E-05	0.20	0.031	0.281
MW-9	Uncosolidated	3.787	2.63E-03	0.20	0.020	0.379
MW-11	Bedrock	1.440	1.00E-03	0.15	0.038	0.365
MW-13	Uncosolidated	5.890	4.09E-03	0.20	0.032	0.942
MW-15	Uncosolidated	5.688	3.95E-03	0.20	0.048	1.365

Notes:
Velocity calculated from V=Ki/n
V = Velocity
K= Hydrulic Conductivity
i= gradient
n= porosity
Hydraulic conductivity data from slug testing performedin 1994.
Porosity values assumed from Groundwater & Wells (Driscoll).
Gradient calculated from March 2016 potentiometric surface.

APPENDIX

Monitoring Well Logs
Laboratory Data Sheets and Chain of Custody Documents

APR 06 '92 10:13 ENG. TECTONICS, P.A. 919 7670696 Resources
Division of Health Services

WELL COMPLETION RECORD

)MPLETE ALL INFORMATION REQUESTED BELOW FOR EACH WELL INSTALLED, AND RETURN FORM TO THE N.C.
RTMENT OF HUMAN RESOURCES, SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH,
O. OX 2091, RALEIGH, N.C. 27602

PERMIT NO.:

AME OF SITE: Davidson County Landfill

OWNER (print): Davidson County Solid Waste Dept

DDRESS: P.O. Box 1067, Lexington, NC 27292

REGISTRATION NO.: 835

RILLING CONTRACTOR: Engineering Tectonics, P.A. /Stewart Well

sing Type: Schedule 40 PVC dia. 2 in.
sing Depth: from +2.5 to 26.5 ft. - dia. 2 in.
reen Type: .010" Slotted PVC dia. 2 in.
reen Depth: from 27.5 to 37.5 ft. - dia. 2 in.
Outer Protective Casing dia. 6 in.

Grout Depth: from 0 to 24.5 ft. - dia. 6
Bentonite Seal: from 24.5 to 25.5 ft. - dia. 6
Sand/Gravel PK: from 25.5 to 37.5 ft. - dia. 6
Total Well Depth: from +2.5 to 37.5 ft. - dia. 2
Borehole Depth: from 0 to 37.5 ft. - dia. 6
Date Measured ___/___/___

atic Water Level: NA feet from top of casing

Casing is 2.5 feet above land su

eld (gpm): NA Method of Testing:

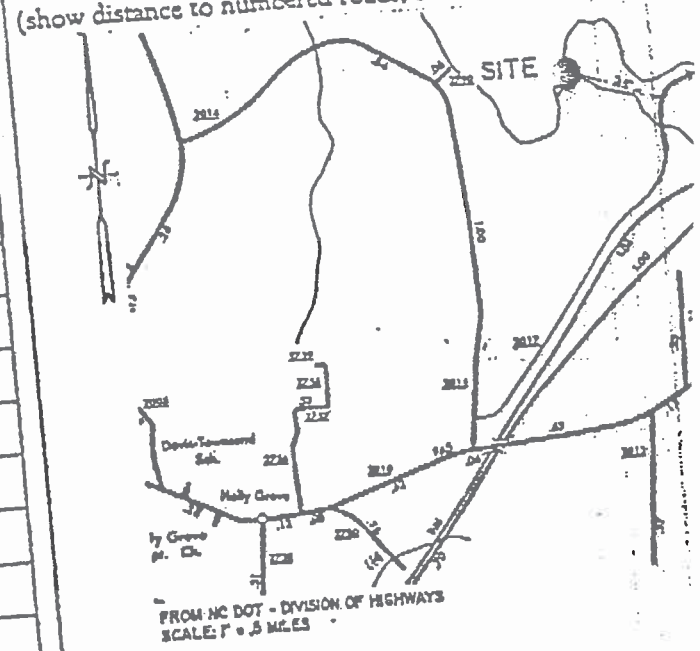
DRILLING LOG

DEPTH FROM	TO	FORMATION DESCRIPTION

See attached boring log.

LOCATION SKETCH

(show distance to numbered roads, or other map reference p



REMARKS: MW-1A

DATE: 5-15-90 SIGNATURE: John Baenigs

Sheet 1 of 2

OWNER: Davidson County Solid Waste Dept.	BORING NUMBER: MW-1A
PROJECT NAME: Davidson County Landfill	ARCHITECT-ENGINEER
SITE LOCATION: Holly Grove, NC	JOB. NO. 89-468-E

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2} (1, 2, 3, 4, 5); PLASTIC LIMIT % X; WATER CONTENTS % ⊕; LIQUID LIMIT % Δ (10, 20, 30, 40, 50); STANDARD PENETRATION BLOWS/FT. ● (10, 20, 30, 40, 50)

DEPTH IN FEET	SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH FROM-TO	DESCRIPTION OF MATERIAL
				SURFACE ELEVATION
				SANDY SILT, tan, white, hard, (ML). NOTE: (Field description).
	1	ss	2.5 3.0	
5	2	ss	5.0 5.5	
	3	ss	7.5 8.0	
10	4	ss	10.0 10.5	
				SILT, tan, hard, (ML). NOTE: Contains weathered rock fragments. (Field description).
15	5	ss	15.0 15.5	
				Auger Refusal at 18.0 ft.
20				Metavolcanic Bedrock (Rock type based on Geologic Map of North Carolina).
25				
30				

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-STU, THE TRANSITION MAY BE GRADUAL.

WATER TABLE DATA — DEPTH BELOW SURFACE: NA @ 0 HRS. ___ @ ___ HRS.	BORING STARTED 1-23-90		BORING COMPLETED 1-23-90
	RIG Air Rotary	FOREMAN	APP'D BY ABN	AUGER NA

ENGINEERING TECTONICS, P. A.

Sheet 2 of 2

OWNER: Davidson County Solid Waste Dept.	BORING NUMBER: MW-1A
PROJECT NAME: Davidson County Landfill	ARCHITECT-ENGINEER
SITE LOCATION: Holly Grove, NC	JOB. NO.: 89-468-E

UNCONFINED COMPRESSIVE STRENGTH TON/FT.^{2} (1, 2, 3, 4, 5)

PLASTIC LIMIT % X — WATER CONTENTS % ⊕ — LIQUID LIMIT % Δ (10, 20, 30, 40, 50)

● STANDARD PENETRATION BLOWS/FT. (10, 20, 30, 40, 50)

DEPTH IN FEET	SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH FROM-TO	DESCRIPTION OF MATERIAL / SURFACE ELEVATION	UNCONFINED COMPRESSIVE STRENGTH	PLASTIC LIMIT % / WATER CONTENTS % / LIQUID LIMIT %	STANDARD PENETRATION BLOWS/FT.
35							
				Boring Terminated at 37.5 ft.			

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES; IN-STU. THE TRANSITION MAY BE GRADUAL

WATER TABLE DATA — DEPTH BELOW SURFACE	BORING STARTED		BORING COMPLETED
_____ @ 0 HRS.	RIG	FOREMAN	APP'D BY	AUGER
_____ @ _____ HRS.				

N. C. Department of Human Resources
Division of Health Services

WELL COMPLETION RECORD

COMPLETE ALL INFORMATION REQUESTED BELOW FOR EACH WELL INSTALLED, AND RETURN FORM TO THE N.C DEPARTMENT OF HUMAN RESOURCES, SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH P. O. BOX 2091, RALEIGH, N.C. 27602

NAME OF SITE:	PERMIT NO.:
Davidson County Sanitary Landfill	29-02
ADDRESS: State Rd. 2014, P.O. Box 2065, Lexington, NC 27292	OWNER (print): Davidson County
DRILLING CONTRACTOR: Environmental Technology Engineering, Inc., Lexington, SC	REGISTRATION NO.: NC # 821

Casing Type: Sch. 40 PVC dia. 2 in. Grout Depth: from 0 to 8.5 ft. - dia. 4 in
Casing Depth: from 0 to 11.8 ft. - dia. 2 in. Bentonite Seal: from 8.5 to 9.5 ft. - dia. 4 in
Screen Type: Continuously slotted PVC dia. 2 in. Sand/Gravel PK: from 9.5 to 16.8 ft. - dia. 3 in
Screen Depth: from 11.8 to 16.8 ft. - dia. 2 in. Total Well Depth: from 0 to 16.8 ft. - dia. 3 in

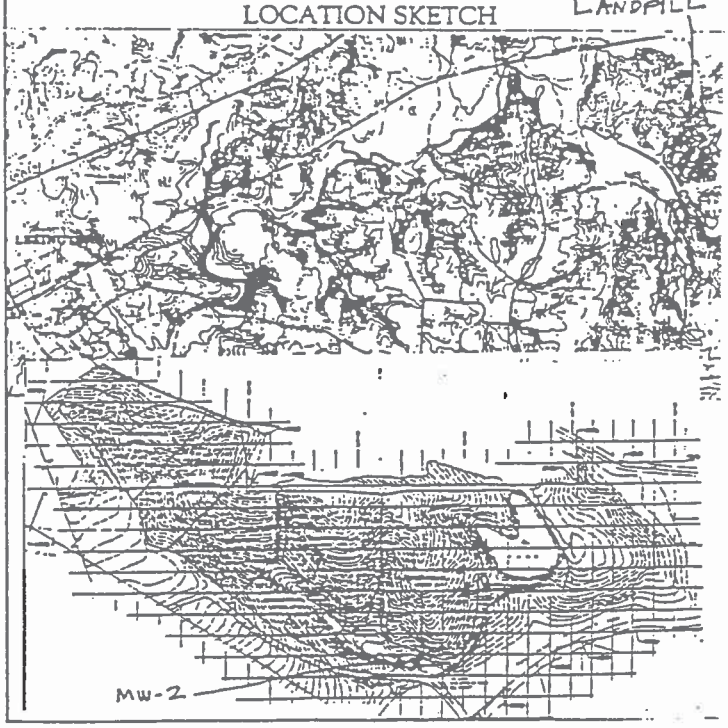
Static Water Level: 6.75 feet from top of casing Date Measured 9 / 22 / 87

Yield (gpm): 2-3 Method of Testing: Centrifugal Pump Casing is 3.48 feet above land surfac

DRILLING LOG

DEPTH FROM	TO	FORMATION DESCRIPTION
0	3.5	Light brown clay with 30% silt.
3.5	5.5	orange brown silty clay with gravel-sized diorite fragments.
5.5	9.0	Light brown clayey silt.
9.0	11.0	Light tan silt with 30% clay and diorite fragments.
11.0	13.0	Highly fractured, unweathered diorite.
13.0	15.0	"
15.0	16.8	"

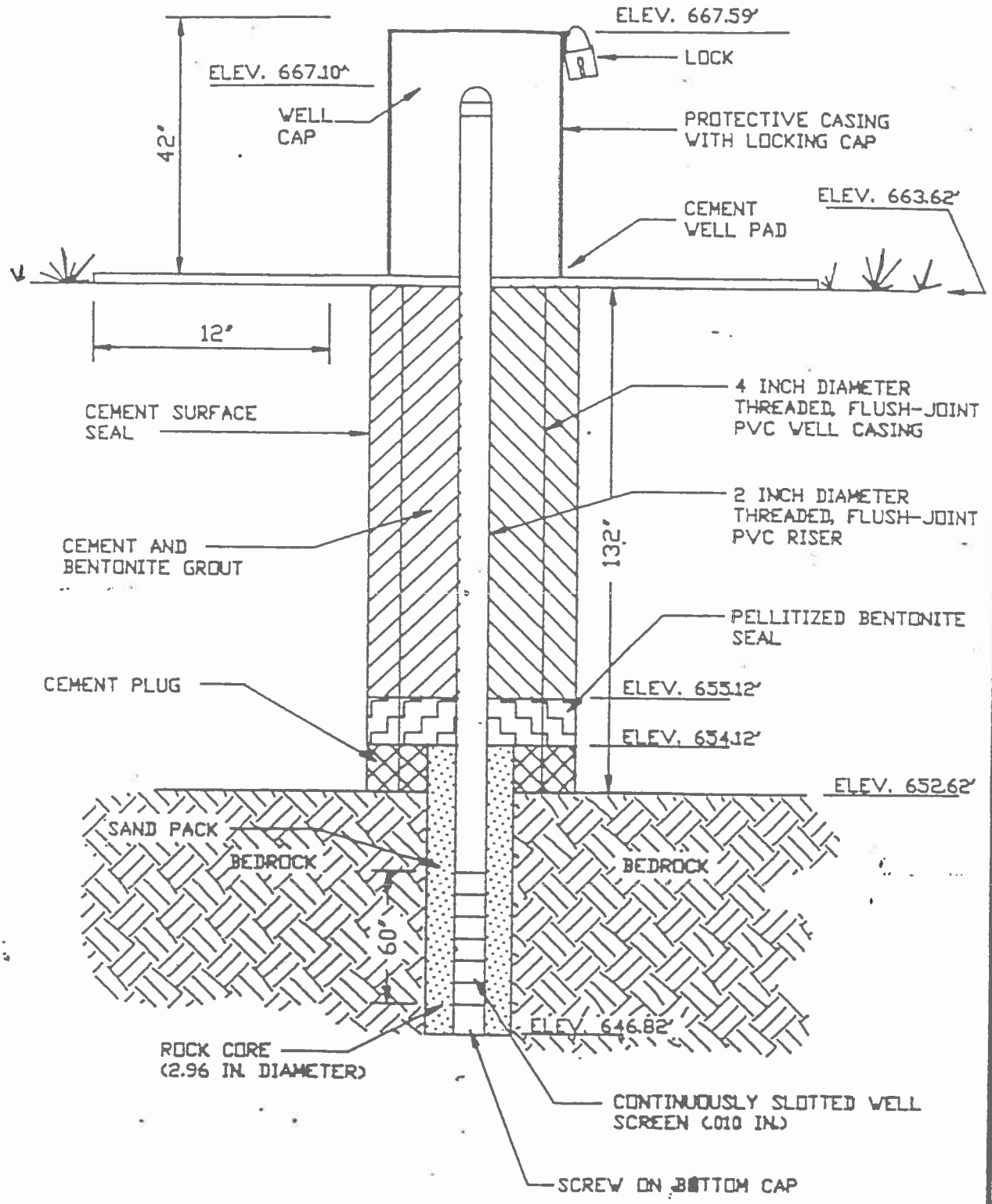
LOCATION SKETCH



REMARKS: Monitoring Well MW-2.

DATE: 11/25/87 SIGNATURE: Laura L. Liggett / for the operator

DHS 3342 (6/85)
Solid & Hazardous Waste Management Branch



GROUNDWATER MONITORING WELL SCHEMATIC

MW - 2

Resources
Division of Health Services

WELL COMPLETION RECORD

MPLETE ALL INFORMATION REQUESTED BELOW FOR EACH WELL INSTALLED, AND RETURN FORM TO THE N.C. RTMENT OF HUMAN RESOURCES, SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH, . OX 2091, RALEIGH, N.C. 27602

ME OF SITE: Davidson County Landfill

PERMIT NO.:

DRESS: P.O. Box 1067, Lexington, NC 27292

OWNER (print): Davidson County Solid Waste Dept

LLING CONTRACTOR: Engineering Tectonics, P.A./Stewart Well

REGISTRATION NO.: 835

sing Type: Schedule 40 PVC dia. 2 in.
sing Depth: from +2.5 to 22 ft. - dia. 2 in.
een Type: .010" Slotted PVC dia. 2 in.
een Depth: from 22 to 32 ft. - dia. 2 in.
Outer Protective Casing dia. 6 in.

Grout Depth: from 0 to 19 ft. - dia. 6 i
Bentonite Seal: from 19 to 20 ft. - dia. 6 i
Sand/Gravel PK: from 20 to 32 ft. - dia. 6
Total Well Depth: from +2.5 to 32 ft. - dia. 2
Borehole Depth: from 0 to 32 ft-dia. 6
Date Measured ___/___/___

tic Water Level: NA feet from top of casing

Casing is 2.5-3 feet above land surf

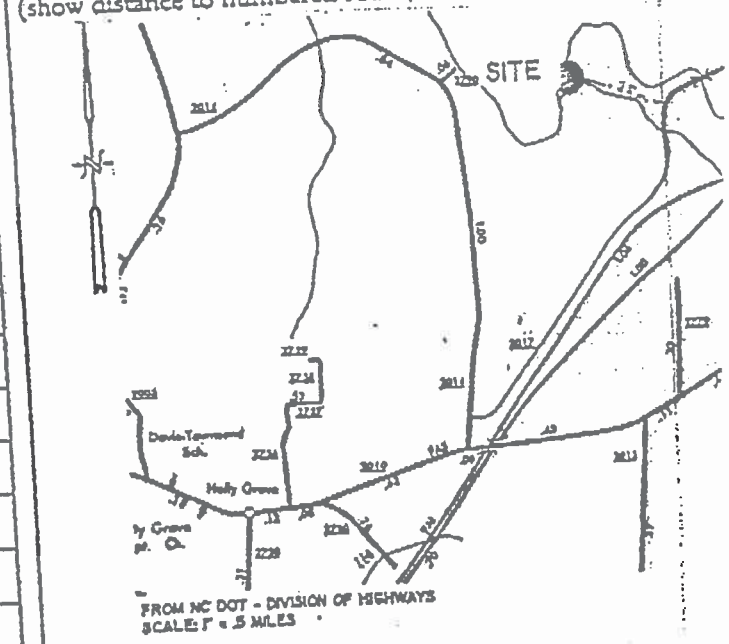
ld (gpm): NA Method of Testing:

DRILLING LOG

DEPTH FROM	TO	FORMATION DESCRIPTION
See attached boring log.		

LOCATION SKETCH

(show distance to numbered roads, or other map reference poi



REMARKS: MW-3A

DATE: 5-15-90 SIGNATURE: John Breunigs

Sheet 1 of 1

OWNER: Davidson County Solid Waste Dept.	BORING NUMBER: MW-3A
PROJECT NAME: Davidson County Landfill	ARCHITECT-ENGINEER:
SITE LOCATION: Holly Grove, NC	JOB NO.: 89-468-E

UNCONFINED COMPRESSIVE STRENGTH TONS/FT.^{2} (1, 2, 3, 4, 5); PLASTIC LIMIT % (X); WATER CONTENT % (⊕); LIQUID LIMIT % (Δ) (10, 20, 30, 40, 50); STANDARD PENETRATION BLOWS/FT. (●) (10, 20, 30, 40, 50)

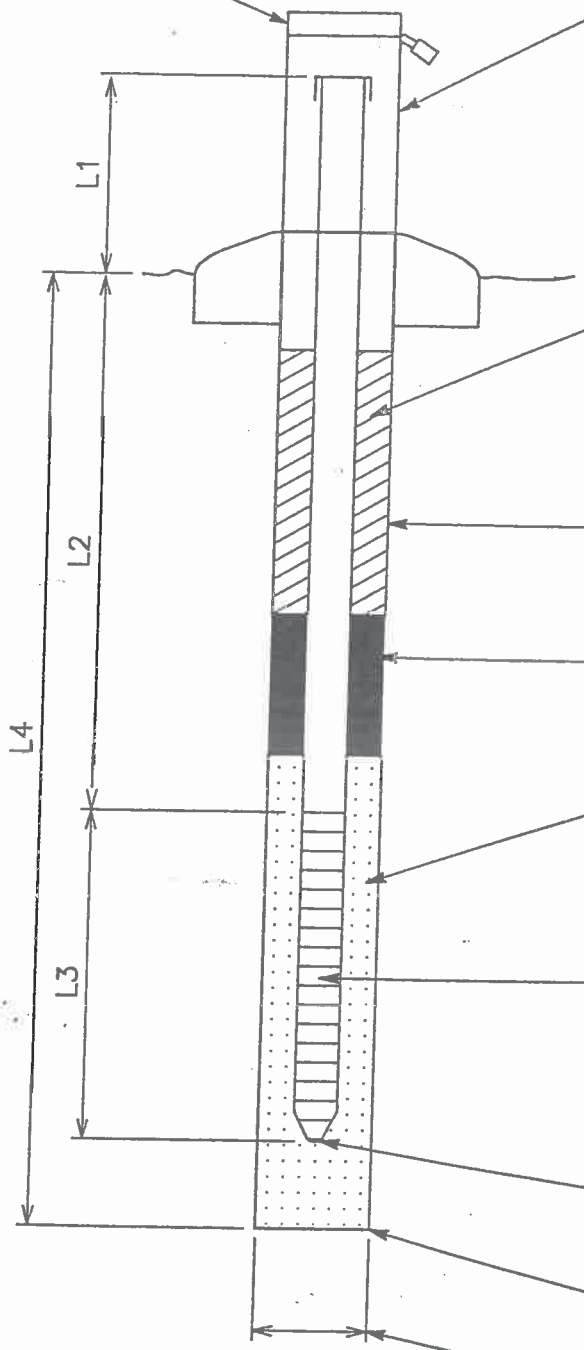
DEPTH IN FEET	SAMPLE NO.	SAMPLE TYPE	SAMPLE DEPTH FROM-TO	DESCRIPTION OF MATERIAL (SURFACE ELEVATION)	STANDARD PENETRATION BLOWS/FT.
	1	ss	2.5 4.0	SANDY SILT, brown, tan, white, firm, (ML). NOTE: (Field description).	24
5	2	ss	5.0 6.5		10
	3	ss	7.5 9.0	CLAYEY SILT, gray, stiff, (ML). NOTE: (Field description).	32
10					50/0
				Auger Refusal at 13.5 ft.	
15				Metavolcanic Bedrock (Rock type based on Geologic Map of North Carolina).	
20					
25					
30				Boring Terminated at 32.0 ft.	

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDRY LINES BETWEEN SOIL TYPES: IN-STU. THE TRANSITION MAY BE GRADUAL

WATER TABLE DATA — DEPTH BELOW SURFACE: NA @ 0 HRS. ___ @ ___ HRS.	BORING STARTED: 1-23-90	BORING COMPLETED: 1-23-90	
	RIG: Air Rotary	FOREMAN:	APP'D BY: ABN	AUGER: NA

ENGINEERING TECTONICS, P. A.

LANDFILL MONITORING WELL No. MW- 1
TYPE II WELL INSTALLATION



PROTECTIVE CASING AND CONCRETE PAD

P. CASING MATERIAL	Steel
P. CASING DIAMETER	6 X 6 inches
P. CASING LENGTH	5 feet
PAD DIMENSIONS	3 ft. dia.
HEIGHT ABOVE GROUND	1.20 feet
PAD ELEVATION	735.00
TOP OF CASING ELEVATION	736.20

WELL RISER CASING

MATERIAL	Schedule 40 PVC
DIAMETER	2 inch
JOINT TYPE	Flush-thread
LENGTH	47.5 feet

BACKFILL AROUND CASING

MATERIAL	Cement grout
THICKNESS	46.5 feet

ANNULAR SEAL

TYPE OF SEAL	Bentonite
THICKNESS	1.0 feet

FILTER PACK

TYPE OF FILTER	Sand
DISTANCE ABOVE SCREEN	0.0 feet
LENGTH	15.0 feet

WELL SCREEN

SCREEN MATERIAL	Schedule 40 PVC
DIAMETER	2 inch
LENGTH	15.0 feet
SLOT SIZE	0.010 inch

DEPTH TO BOTTOM OF MONITORING WELL	62.5 feet
DEPTH TO BOTTOM OF FILTER SAND	62.5 feet
DIAMETER OF BOREHOLE	6 inch

L1 = 1.20 FT.
L2 = 47.5 FT.
L3 = 15.0 FT.
L4 = 62.5 FT.

CROSS-SECTIONAL VIEW

Note: Well was installed ± 6/19/1991 by Engineering Tectonics (REG. #835) and denoted as well MW-4 under former landfill permit # 29-02.

TITLE

MONITORING WELL CONSTRUCTION DETAIL
NEW DAVIDSON COUNTY LANDFILL
LEXINGTON, NORTH CAROLINA

G · N · Richardson & Associates
CONSULTING ENGINEERING

CAD FILE	PREP. BY	REV. BY	DATE	PROJECT NO.
94012-2.DWG	GHS		06-07-94	GRA94012

N. C. Department of Human Resources
Division of Health Services

WELL COMPLETION RECORD

COMPLETE ALL INFORMATION REQUESTED BELOW FOR EACH WELL INSTALLED, AND RETURN FORM TO THE N. DEPARTMENT OF HUMAN RESOURCES, SOLID AND HAZARDOUS WASTE MANAGEMENT BRANC P. O. BOX 2091, RALEIGH, N.C. 27602

NAME OF SITE:	PERMIT NO.:
Davidson County Sanitary Landfill (29-02)	28-0323-WM-0101
ADDRESS: Route 1, Box 678 Lexington, NC 27292	OWNER (print): Davidson County
DRILLING CONTRACTOR: McCall Brothers, Inc.	REGISTRATION NO.: NO. 003

Casing Type: SCH. 40 PVC dia. 2 in.
Casing Depth: from 0 to 10 ft. - dia. 2 in.
Screen Type: .010Slotted PVC dia. 2 in.
Screen Depth: from 10 to 25 ft. - dia. 2 in.

Grout Depth: from 0 to 5.5 ft. - dia. ____
Bentonite Seal: from 5.5 to 1.1 ft. - dia. ____
Sand/Gravel PK: from 1.1 to 25 ft. - dia. ____
Total Well Depth: from 0 to 25 ft. - dia. ____

Static Water Level: 11.05 feet from top of casing — Date Measured 10 / 28 / 9

Yield (gpm): N/A Method of Testing: ____ Casing is 2.5 feet above land surfa

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0'	3½'	Dk. Br. Fine Grained Silty sand
3½'	8.0'	Lt. Br. Fine grained ~~sandy, clayey, silt~~
8.5'	10.2'	Lt. Grn. Clayey Silty Fine to medium grained sand
10.2	25	Bedrock

LOCATION SKETCH

(show distance to numbered roads, or other map reference points

SEE ATTCHED FIGURE

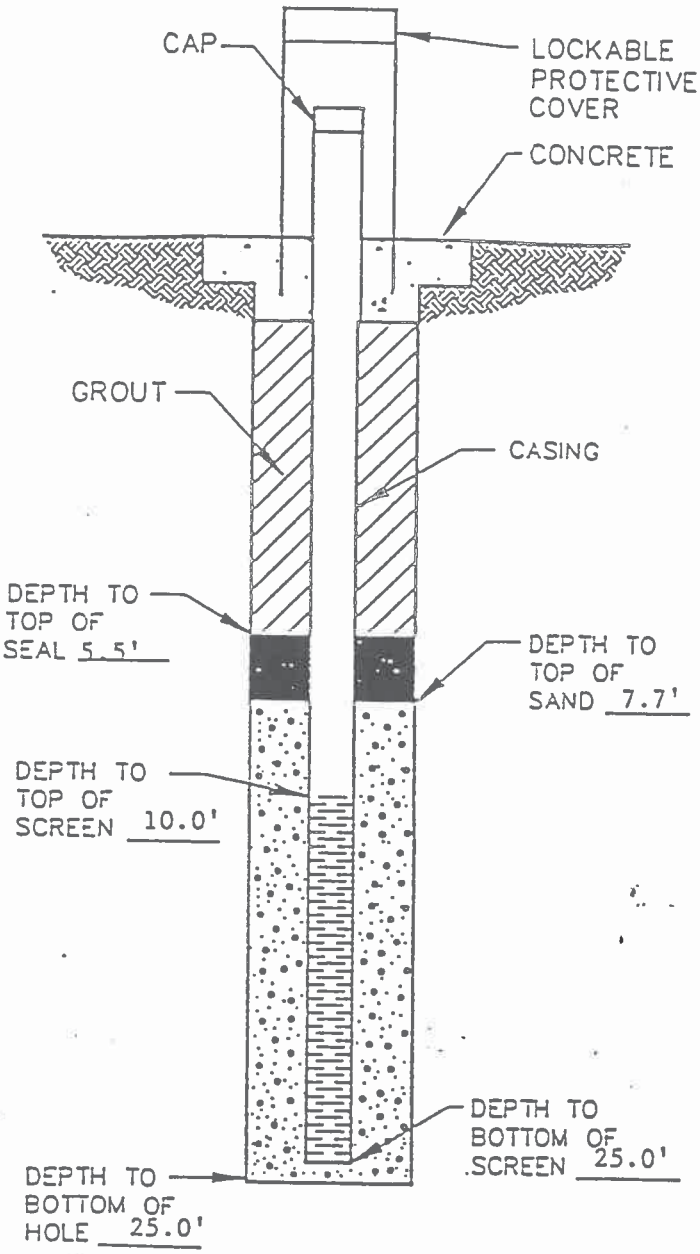
REMARKS: Monitor Well MW-5
Water-Bearing Fracture Encountered @ 18.51

DATE: 11-22-92 SIGNATURE: Timothy Grant - CDM

DHS 3342 (6/85)
Solid & Hazardous Waste Management Branch

PROJECT NAME: Davidson Co. Landfill
LOCATION: Lexington, NC
WELL NUMBER: MW-5
DATE DRILLED: 10/27/92
LAND SURFACE: N/A
TOTAL DEPTH: 25.0 ft.
DRILLING METHOD: HSA/Air Rotary
HOLE DIAMETER: 8"(0-10'):6½ (10-25)
PVC CASING DIA. 2" in
SCREEN LENGTH: 15 ft.
SLOT SIZE: 0.010 in.
BACKFILL: Portland Grout
SEAL: Bentonite

WELL CONSTRUCTION



CDM

FIELD GEOLOGIC LOG

PROJECT *DAVIDSON COUNTY LANDFILL*		DATE *10/27/92*	SHEET *1* OF *1*
		DRILLING CONTRACTOR *McCall Brothers Inc.*	
WELL No. *MW-5*	SAMPLING METHOD *Split Spoon (24")*	DRILLER	
LOGGED BY *M. Sanford*	OFFICE *CDM/Ral*	DRILLING METHOD *8" O.D. HSA and Air Rotary*	

SAMP. No.	DEPTH, feet	LITHOLOGY	BLOW COUNT	SAMPLE DESCRIPTION	DRILLING COMMENTS
				0-3 1/2" - dark brown silty, fine-grained SAND	
	1			*3 1/2" - 9 1/2' - light brown, fine-grained, sandy, clayey SILT*	
	2				
	3				
	4		*4*		
			11		
	5		*12*		
			12		
	6				
	7				
	8				
	9		*6*		
			10	*9.5' - 10.2' - light green, silty, clayey, fine-to-medium grained SAND with rock fragments, moist*	
			17		
	10		*50/3"*		*Auger refusal @ 10'*
	1				*Perched water on top of bedrock*
	2				
	3				
	4				
	15				
	6				*Water-bearing fracture zone encountered @ 18.67'*
	7			*10.2'- 25' - Air Rotary drilling Metavolcanics*	
	8				*Boring terminated @ 25'*
	9				
	20				

NORTH CAROLINA DEPARTMENT OF HEALTH, ENVIRONMENT, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611, PHONE (919) 783-50S3

FOR OFFICE USE ONLY
Quad No. _____ Serial No. _____
Lat _____ Long. _____ P _____
MinorBasin

WELL CONSTRUCTION RECORD

Davidson County - Holly Grove Assesment
MW-6

DRILLING CONTRACTOR **Engineering Tectonics**

DRILLER REGISTRATION NUMBER **835**

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: **Lexington, North Carolina**
220 Landfill Road, Lexington, North Carolina
(Road, Community, or Subdivision and Lot No.)

County: **Davidson County**

2. OWNER **Davidson County**
ADDRESS **220 Landfill Road**
Lexington (City or Town) **NC** (State) **27292** (Zip Code)

3. DATE DRILLED **7/30/97** USE OF WELL **Monitoring**
4. TOTAL DEPTH **65 feet** Cuttings Collected? ___ Yes ___ No
5. DOES WELL REPLACE EXISTING WELL? ___ Yes **X** No
6. STATIC WATER LEVEL: **60.81** ft ___ above **X** below top of casing.
Top of casing is **2.21** ft above land surface.
7. YIELD (gpm): _____ METHOD OF TEST _____
Water Zones (depth): _____

Depth From	Depth To	Drilling Log: Formation Description
see attached boring logs		

If additional space is needed, use back of form.

9. CHLORINATION: Type _____ Amount _____

10. CASING:

From (Depth)	To (Depth)	Ft	Diameter	Wall Thicknes or Weight/Ft.	Material
0 ft.	14		6-inch	Sch. 40	PVC
0 ft.	55		2-inch	Sch. 40	PVC

11. GROUT:

From (Depth)	To (Depth)	Ft.	Material	Method
0 ft.	51.5		Cement	
51.5	53.5		Bentonite	

12. SCREEN:

From (Depth)	To (Depth)	Ft	Diameter	Slot Size	Material
55	65		2 in.	10 in.	PVC
			in.	in.	
			in.	in.	

13. GRAVEL PACK

From (Depth)	To (Depth)	Ft	Size	Material
53.5 ft.	65		Fine Filter	Sand

LOCATION SKETCH
(Show directions and distance from at least two State Roads. or other map reference points.)

see attached map

REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 14 NCAC 2C, WELL CONSTRUCTION RECORDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Signature of Contractor or Agent Date

Submit original to Division of Environmental Management & copy to well owner.

FIELD BOREHOLE LOG

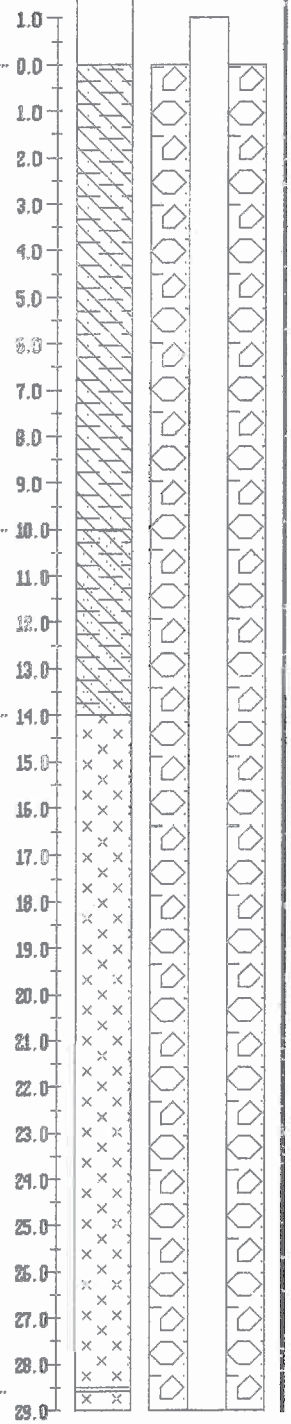
BOREHOLE NUMBER: MW-5

PROJECT NUMBER: DAVDCD-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/29/97 DATE COMPLETED: 7/30/97

TOP OF CASING ELEVATION: 781.25
TOTAL DEPTH: 65.0 FT
GROUND SURFACE ELEVATION: 779.04
SHEET: 1 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=AFter Boring		
Depth(ft)	58.6 bg	63.30 bg
Time	-	7:00 pm
Date:	7/31/97	8/1/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
1.0								
0.0								CLAYEY SILT: Light brown with trace fine sand.
1.0								
2.0								
3.0								
4.0								
5.0		G	S1					
6.0								
7.0								
8.0								
9.0								
10.0		G	S2					SANDY CLAYEY SILT: Light brown with some gravel sized partially weathered rock. Roller bit refusal at 12.0'. Setting outer casing in competent rock at 14'.
11.0		G						
12.0								
13.0								
14.0								DIORITE: Competent rock.
15.0								
16.0								
17.0								
18.0								
19.0								
20.0								
21.0								
22.0								
23.0								
24.0								
25.0								
26.0								
27.0								
28.0								
29.0								



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-6

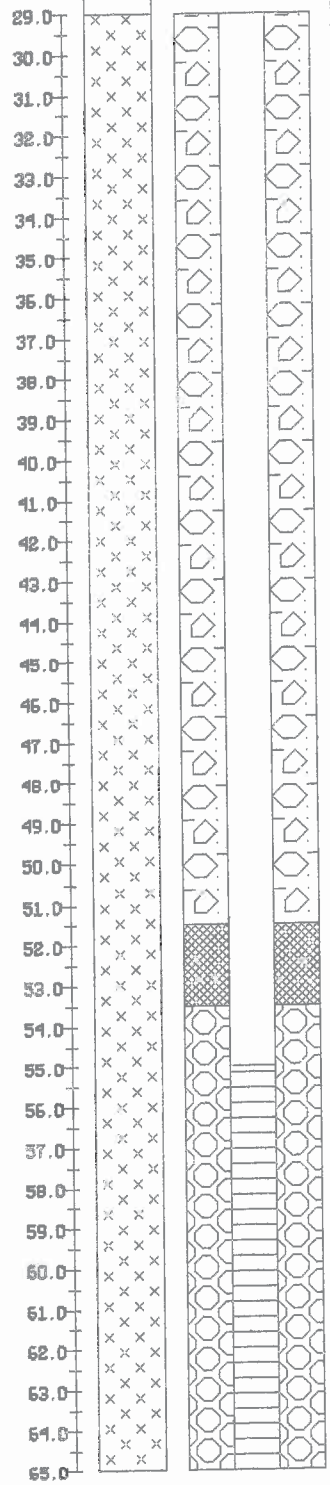
PROJECT NUMBER: DAVDCO-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/29/97 DATE COMPLETED: 7/30/97

TOP OF CASING ELEVATION: 781.25
TOTAL DEPTH: 65.0 FT
GROUND SURFACE ELEVATION: 779.04
SHEET: 2 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	58.6 bg	63.30 bg
Time	-	7:00 pm
Date:	7/31/97	8/1/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
29.0								DIORITE: No significant water bearing fractures. Boring Terminated at 65 feet.
30.0								
31.0								
32.0								
33.0								
34.0								
35.0								
36.0								
37.0								
38.0								
39.0								
40.0								
41.0								
42.0								
43.0								
44.0								
45.0								
46.0								
47.0								
48.0								
49.0								
50.0								
51.0								
52.0								
53.0								
54.0								
55.0								
56.0								
57.0								
58.0								
59.0								
60.0								
61.0								
62.0								
63.0								
64.0								
65.0								

DEPTH | LITHOLOGY | WELL INSTALLATION



NORTH CAROLINA DEPARTMENT OF HEALTH, ENVIRONMENT, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611, PHONE (919) 783-50S3

FOR OFFICE USE ONLY
Quad No. _____ Serial No. _____
Lat _____ Long. _____ P _____
MinorBasin

WELL CONSTRUCTION RECORD

Davidson County - Holly Grove Assesment
MW-8

DRILLING CONTRACTOR **Engineering Tectonics**

DRILLER REGISTRATION NUMBER **835**

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: **Lexington, North Carolina**
220 Landfill Road, Lexington, North Carolina
(Road, Community, or Subdivision and Lot No.)

County: **Davidson County**

2. OWNER **Davidson County**
ADDRESS **220 Landfill Road**
Lexington **NC** **27292**
City or Town State Zip Code

3. DATE DRILLED **7/29/97** USE OF WELL **Monitoring**
4. TOTAL DEPTH **57.0** Cuttings Collected? ___ Yes ___ No
5. DOES WELL REPLACE EXISTING WELL? ___ Yes **X** No
6. STATIC WATER LEVEL: **40.69** ft ___ above **X** below top of casing.
Top of casing is **2.06** ft above land surface.
7. YIELD (gpm): _____ METHOD OF TEST _____
Water Zones (depth): _____
9. CHLORINATION: Type _____ Amount _____

Depth From	Depth To	Drilling Log: Formation Description
see attached boring logs		

If additional space is needed, use back of form.

10. CASING:

From	To	Ft	Diameter	Wall Thicknes or Weight/Ft.	Material
0 ft.	**47**		**2-inch**	**Sch. 40**	**PVC**

11. GROUT:

From	To	Ft.	Material	Method
0 ft.	**44**		**Cement**	
44	**46**		**Bentonite**	

12. SCREEN:

From	To	Ft	Diameter	Slot Size	Material
47	**57**		**2** in.	**10** in.	**PVC**
			in.	in.	
			in.	in.	

13. GRAVEL PACK

From	To	Ft	Size	Material
46	**57**		**Fine Filter**	**Sand**

LOCATION SKETCH
(Show directions and distance from at least two State Roads. or other map reference points.)

see attached map

REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 14 NCAC 2C, WELL CONSTRUCTION RECORDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Signature of Contractor or Agent Date

Submit original to Division of Environmental Management & copy to well owner.

FIELD BOREHOLE LOG

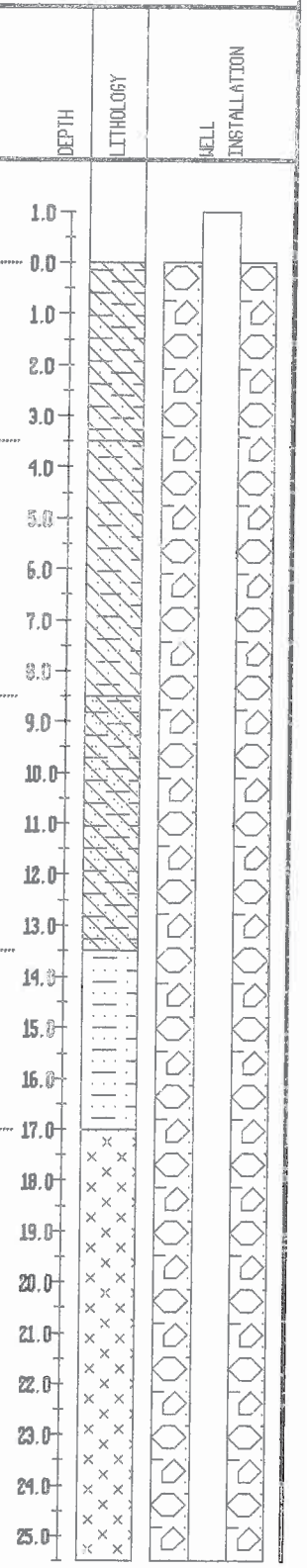
BOREHOLE NUMBER: MW-8

PROJECT NUMBER: DAVDCO-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/28/97 DATE COMPLETED: 7/29/97

TOP OF CASING ELEVATION: 737.60
TOTAL DEPTH: 57.0 FT
GROUND SURFACE ELEVATION: 735.54
SHEET: 1 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	38.63	31.47
Time	11:00	7:00
Date:	7/29/97	7/30/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
0.0–1.0	4 6 8	Ss	S1			12"		CLAYEY SILT: brown silt to clayey silt. slight cast, no ribbon. ML.
3.0–4.0	10 12 15	Ss	S2			14"		CLAYEY SANDY SILT: Brown, dry, clayey silt to clayey sandy silt. Slight cast, no ribbon. trace gravel. manganese stained at 4.5'. SM-SC.
8.0–9.0	17 23 21	Ss	S3			10"		CLAYEY SILTY SAND: sandy clayey silt to clayey silty sand, trace course sand. dry. slight cast. SM.
13.0–14.0	50/3	Ss	S4			3"		SANDY SILT: Brown, dry, sandy silt. trace gravel. SM. Auger refusal at 17'.
17.0–25.0		G	S5					DIORITE: competent rock.
25.0		G	S6					



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-8

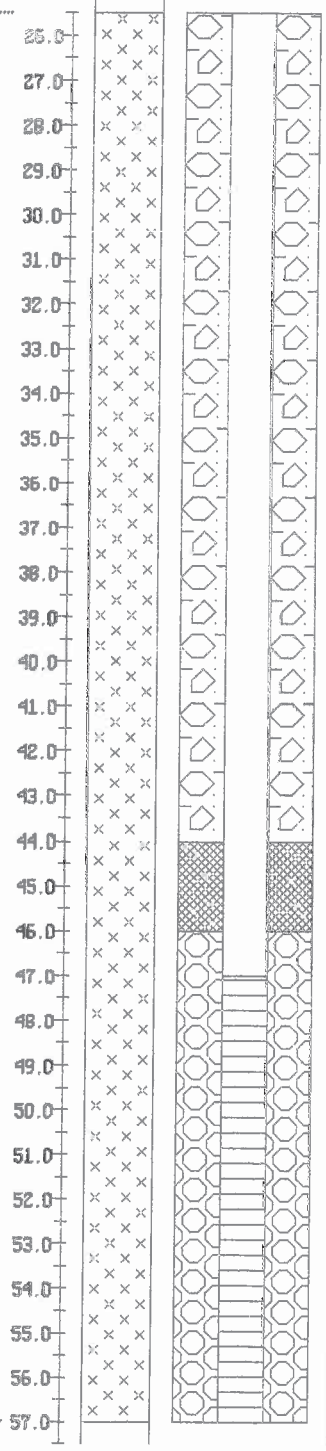
PROJECT NUMBER: DAVDCO-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 90 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/29/97 DATE COMPLETED: 7/29/97

TOP OF CASING ELEVATION: 737.60
TOTAL DEPTH: 57.0 FT
GROUND SURFACE ELEVATION: 735.54
SHEET: 2 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	38.53	31.47
Time	11:00	7:00
Date:	7/29/97	7/30/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
26.0								DIORITE: competent rock. No water bearing fractures noted.
27.0								
28.0								
29.0								
30.0		G	S7					
31.0								
32.0								
33.0								
34.0								
35.0		G	S8					
36.0								
37.0								
38.0								
39.0								
40.0		G	S9					
41.0								
42.0								
43.0								
44.0								
45.0		G	S10					
46.0								
47.0								
48.0								
49.0								
50.0		G	S11					
51.0								
52.0								
53.0								
54.0								
55.0		G	S12					
56.0								
57.0								Boring terminated at 57.0'.

DEPTH | LITHOLOGY | WELL INSTALLATION



NORTH CAROLINA DEPARTMENT OF HEALTH, ENVIRONMENT, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611, PHONE (919) 783-50S3

FOR OFFICE USE ONLY
Quad No. _____ Serial No. _____
Lat _____ Long. _____ P _____
MinorBasin

WELL CONSTRUCTION RECORD

Davidson County - Holly Grove Assesment
MW-9

DRILLING CONTRACTOR **Engineering Tectonics**

DRILLER REGISTRATION NUMBER **835**

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: **Lexington, North Carolina**
220 Landfill Road, Lexington, North Carolina
(Road, Community, or Subdivision and Lot No.)

County: **Davidson County**

2. OWNER **Davidson County**
ADDRESS **220 Landfill Road**
Lexington **NC** **27292**
City or Town State Zip Code

3. DATE DRILLED **7/25/97** USE OF WELL **Monitoring**
4. TOTAL DEPTH **21** Cuttings Collected? ___ Yes ___ No
5. DOES WELL REPLACE EXISTING WELL? ___ Yes **X** No
6. STATIC WATER LEVEL: **16.09** ft ___ above **X** below top of casing.
Top of casing is **2.08** ft above land surface.
7. YIELD (gpm): _____ METHOD OF TEST _____
Water Zones (depth): _____

Depth From	Depth To	Drilling Log: Formation Description
see attached boring logs		

If additional space is needed, use back of form.

9. CHLORINATION: Type _____ Amount _____

10. CASING:

From (Depth)	To (Depth)	Ft	Diameter	Wall Thicknes or Weight/Ft.	Material
0 ft.	11		2-inch	Sch. 40	PVC

11. GROUT:

From (Depth)	To (Depth)	Ft.	Material	Method
0 ft.	7.5		Cement	
7.5	10		Bentonite	

12. SCREEN:

From (Depth)	To (Depth)	Ft	Diameter	Slot Size	Material
11	21		2 in.	10 in.	PVC
			in.	in.	
			in.	in.	

13. GRAVEL PACK

From (Depth)	To (Depth)	Ft	Size	Material
10	21		Fine Filter	Sand

LOCATION SKETCH

(Show directions and distance from at least two State Roads. or other map reference points.)

see attached map

REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 14 NCAC 2C, WELL CONSTRUCTION RECORDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Signature of Contractor or Agent Date

Submit original to Division of Environmental Management & copy to well owner.

FIELD BOREHOLE LOG

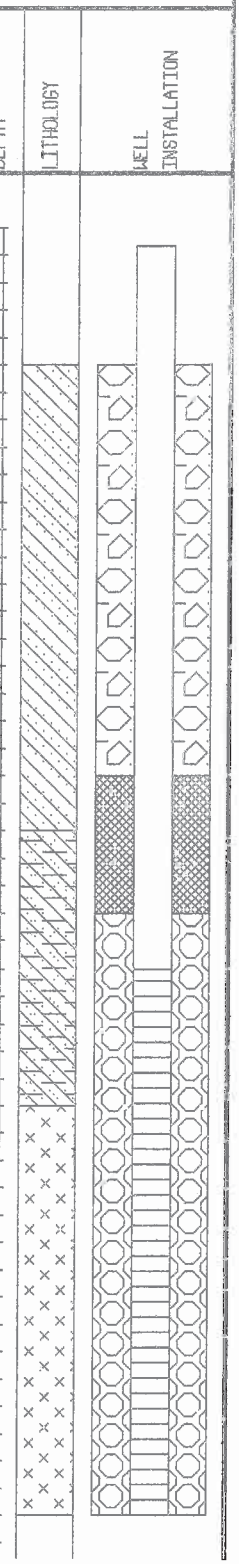
BOREHOLE NUMBER: MW-9

PROJECT NUMBER: DAVDCO-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonice
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/25/97 DATE COMPLETED: 7/25/97

TOP OF CASING ELEVATION: 719.03
TOTAL DEPTH: 21.0 FT
GROUND SURFACE ELEVATION: 716.95
SHEET: 1 OF: 1

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	14.01 bg	15.78 bg
Time	-	-
Date:	7/25/97	7/28/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
2.0								
1.0								
0.0								SANDY CLAY: Purple dry sandy clay to tan sandy clayey silt, with clayey silty sand, SM-SC; iron staining at 3.5'.
1.0								
2.0								
3.0	9							
	18	Ss	S1			14"		
4.0	21							
5.0								
6.0								
7.0								
8.0	29	Ss	S2			10"		
9.0	50/5							CLAYEY SILTY SAND: dark tan with some partially weathered rock.
10.0								
11.0								
12.0								
13.0	50/4	Ss	S3			4"		
14.0								DIORITE: partially weathered rock. Auger refusal at 21 ft.
15.0								
16.0								
17.0								
18.0	50/5	Ss	S4			2"		
19.0								
20.0								
21.0								



NORTH CAROLINA DEPARTMENT OF HEALTH, ENVIRONMENT, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611, PHONE (919) 783-50S3

FOR OFFICE USE ONLY
Quad No. _____ Serial No. _____
Lat _____ Long. _____ P _____
MinorBasin

WELL CONSTRUCTION RECORD

Davidson County - Holly Grove Assesment
MW-10

DRILLING CONTRACTOR **Engineering Tectonics**

DRILLER REGISTRATION NUMBER **835**

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: **Lexington, North Carolina**
220 Landfill Road, Lexington, North Carolina
(Road, Community, or Subdivision and Lot No.)

County: **Davidson County**

2. OWNER **Davidson County**
ADDRESS **220 Landfill Road**
Lexington **NC** **27292**
City or Town State Zip Code

3. DATE DRILLED **7/30/97** USE OF WELL **Monitoring**

4. TOTAL DEPTH **13** Cuttings Collected? ___ Yes ___ No

5. DOES WELL REPLACE EXISTING WELL? ___ Yes **X** No

6. STATIC WATER LEVEL: **5.04** ft ___ above **X** below top of casing.
Top of casing is **2.56** ft above land surface.

7. YIELD (gpm): _____ METHOD OF TEST _____

Water Zones (depth): _____

9. CHLORINATION: Type _____ Amount _____

10. CASING:

From	To	Ft	Diameter	Wall Thicknes or Weight/Ft.	Material
0 ft.	5.5		2-inch	Sch. 40	PVC

11. GROUT:

From	To	Ft.	Material	Method
0 ft.	2.5		Cement	
2.5	4.5		Bentonite	

12. SCREEN:

From	To	Ft	Diameter	Slot Size	Material
5.5	13		2 in.	10 in.	PVC
			in.	in.	
			in.	in.	

13. GRAVEL PACK

From	To	Ft	Size	Material
4.5	13		Fine Filter	Sand

REMARKS: _____

Depth From	Depth To	Drilling Log: Formation Description
see attached boring logs		

If additional space is needed, use back of form.

LOCATION SKETCH

(Show directions and distance from at least two State Roads. or other map reference points.)

see attached map

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 14 NCAC 2C, WELL CONSTRUCTION RECORDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Signature of Contractor or Agent Date

Submit original to Division of Environmental Management & copy to well owner.

FIELD BOREHOLE LOG

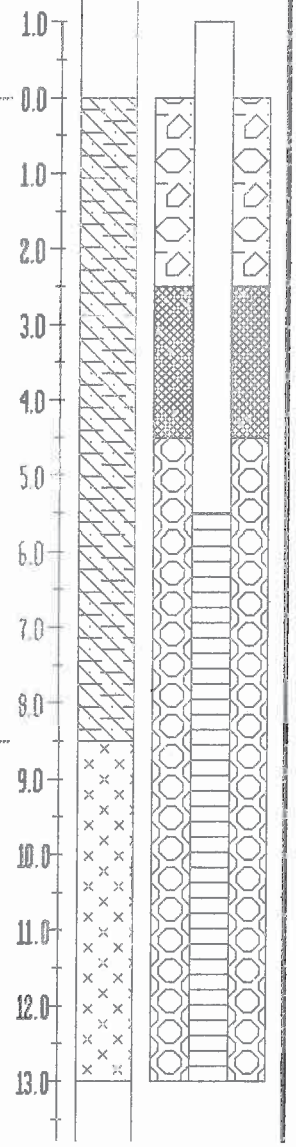
BOREHOLE NUMBER: MW-10

PROJECT NUMBER: DAVDCO-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/30/97 DATE COMPLETED: 7/30/97

TOP OF CASING ELEVATION: 678.24
TOTAL DEPTH: 13.0 FT
GROUND SURFACE ELEVATION: 675.68
SHEET: 1 OF: 1

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	9.0 bg	2.48 bg
Time	11:00 am	-
Date:	7/30/97	7/31/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
1.0								
0.0								CLAYEY SILT: Dark brown, dry, clayey silt with some gravel. Some brown silty sandy clay.
1.0								
2.0								
3.0	5	Ss	S1			18"		
4.0	8							
	8							
5.0								
6.0								
7.0								
8.0	50/6	Ss	S2			8"		
9.0								DIORITE: partially weathered rock. Auger refusal at 13'.
10.0								
11.0								
12.0								
13.0								



NORTH CAROLINA DEPARTMENT OF HEALTH, ENVIRONMENT, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611, PHONE (919) 783-50S3

FOR OFFICE USE ONLY
Quad No. _____ Serial No. _____
Lat _____ Long. _____ P _____
MinorBasin

WELL CONSTRUCTION RECORD

Davidson County - Holly Grove Assesment
MW-11

DRILLING CONTRACTOR **Engineering Tectonics**

DRILLER REGISTRATION NUMBER **835**

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: **Lexington, North Carolina**
220 Landfill Road, Lexington, North Carolina
(Road, Community, or Subdivision and Lot No.)

County: **Davidson County**

2. OWNER **Davidson County**
ADDRESS **220 Landfill Road**
Lexington **NC** **27292**
City or Town State Zip Code

3. DATE DRILLED **7/29/97** USE OF WELL **Monitoring**

4. TOTAL DEPTH **38.0** Cuttings Collected? ___ Yes ___ No

5. DOES WELL REPLACE EXISTING WELL? ___ Yes **X** No

6. STATIC WATER LEVEL: **25.60** ft ___ above **X** below top of casing.
Top of casing is **2.35** ft above land surface.

7. YIELD (gpm): _____ METHOD OF TEST _____
Water Zones (depth): _____

9. CHLORINATION: Type _____ Amount _____

10. CASING:

	Depth			Diameter	Wall Thicknes or Weight/Ft.	Material
From	0 ft.	To 28	Ft	2-inch	Sch. 40	PVC
From		To	Ft			
From		To	Ft			

11. GROUT:

	Depth			Material	Method
From	0 ft.	To 25	Ft.	Cement	
From	25	To 27	Ft.	Bentonite	

12. SCREEN:

	Depth			Diameter	Slot Size	Material
From	28	To 38	Ft	2 in.	10 in.	PVC
From		To	Ft	in.	in.	
From		To	Ft	in.	in.	

13. GRAVEL PACK

	Depth			Size	Material
From	27	To 38	Ft	Fine Filter	Sand
From		To	Ft		

Depth From	Depth To	Drilling Log: Formation Description
see attached boring logs		

If additional space is needed, use back of form.

LOCATION SKETCH

(Show directions and distance from at least two State Roads. or other map reference points.)

see attached map

REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 14 NCAC 2C, WELL CONSTRUCTION RECORDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Signature of Contractor or Agent Date

Submit original to Division of Environmental Management & copy to well owner.

FIELD BOREHOLE LOG

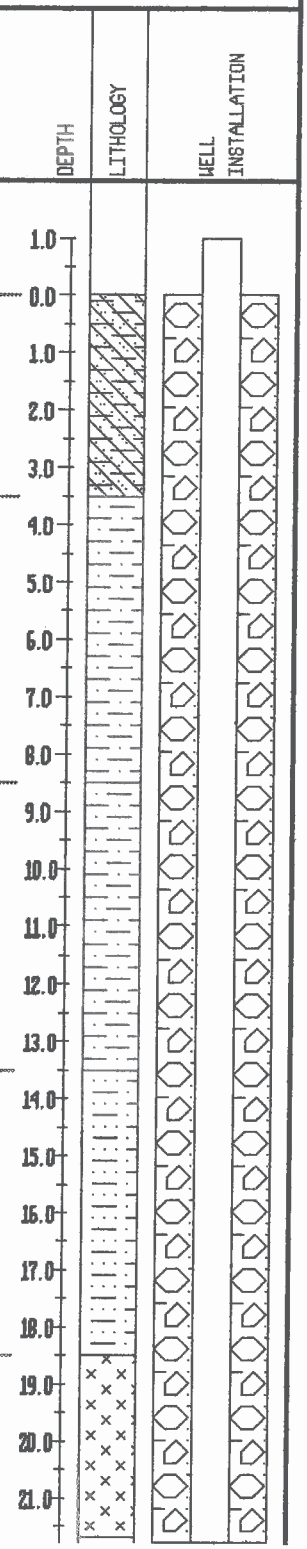
BOREHOLE NUMBER: MW-11

PROJECT NUMBER: DAVDCO-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/29/97 DATE COMPLETED: 7/29/97

TOP OF CASING ELEVATION: 680.07
TOTAL DEPTH: 30.0 FT
GROUND SURFACE ELEVATION: 677.72
SHEET: 1 OF: 2

STATIC WATER LEVEL (BLS)		
WD-While Drilling AB-After Boring		
Depth(ft)	23.25 bg	23.28 bg
Time	-	-
Date:	7/31/97	8/4/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
0.0	3 4 8	Ss	S1			12"		SANDY CLAYEY SILT: brown to tan sandy clayey silt, dry.
3.0	18 26 34	Ss	S2			10"		SILT: Brown silt with trace clay and sand, dry.
8.0	18 50/5	Ss	S3			10"		SILT: Brown silt with trace clay and sand, dry, damp at 10'.
13.0	50/6	Ss	S4			6"		SANDY SILT: Dry, gravelly sandy silt. with manganese and iron staining. Partially weathered rock.
18.0	50/3	Ss				0"		DIORITE: competent rock.
			S5					



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-11

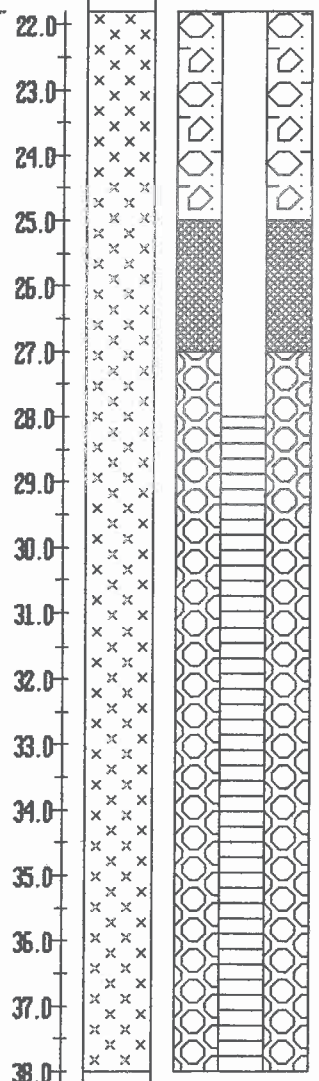
PROJECT NUMBER: DAVDCD-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/29/97 DATE COMPLETED: 7/29/97

TOP OF CASING ELEVATION: 680.07
TOTAL DEPTH: 38.0 FT
GROUND SURFACE ELEVATION: 677.72
SHEET: 2 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	23.25 bg	23.28 bg
Time	-	-
Date:	7/31/97	8/4/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
22.0								DIORITE: competent rock. water bearing fracture at 34 ft. Boring terminated at 38'.
23.0								
24.0								
25.0		G	S6					
26.0								
27.0								
28.0								
29.0								
30.0		G	S7					
31.0								
32.0								
33.0								
34.0								
35.0		G	S8					
36.0								
37.0								
38.0								
39.0								
40.0								

DEPTH | LITHOLOGY | WELL INSTALLATION



NORTH CAROLINA DEPARTMENT OF HEALTH, ENVIRONMENT, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611, PHONE (919) 783-50S3

FOR OFFICE USE ONLY
Quad No. _____ Serial No. _____
Lat _____ Long. _____ P _____
MinorBasin

WELL CONSTRUCTION RECORD

Davidson County - Holly Grove Assesment
MW-12

DRILLING CONTRACTOR **Engineering Tectonics**

DRILLER REGISTRATION NUMBER **835**

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: **Lexington, North Carolina**
220 Landfill Road, Lexington, North Carolina
(Road, Community, or Subdivision and Lot No.)

County: **Davidson County**

2. OWNER **Davidson County**
ADDRESS **220 Landfill Road**
Lexington **NC** **27292**
City or Town State Zip Code

3. DATE DRILLED **7/30/97** USE OF WELL **Monitoring**

4. TOTAL DEPTH **65** Cuttings Collected? ____ Yes ____ No

5. DOES WELL REPLACE EXISTING WELL? ____ Yes **X** No

6. STATIC WATER LEVEL: **64.45** ft ____ above **X** below top of casing.
Top of casing is **2.40** ft above land surface.

7. YIELD (gpm): _____ METHOD OF TEST _____

Water Zones (depth): _____

9. CHLORINATION: Type _____ Amount _____

10. CASING:

From	To	Ft	Diameter	Wall Thicknes or Weight/Ft.	Material
0 ft.	28.5		6-inch	Sch. 40	PVC
0	55		2-inch	Sch. 40	PVC

11. GROUT:

From	To	Ft.	Material	Method
0 ft.	51.5		Cement	
51.5	53.5		Bentonite	

12. SCREEN:

From	To	Ft	Diameter	Slot Size	Material
55	65		2 in.	10 in.	PVC
			in.	in.	
			in.	in.	

13. GRAVEL PACK

From	To	Ft	Size	Material
53.5	65		Fine Filter	Sand

Depth From	Depth To	Drilling Log: Formation Description
see attached boring logs		

If additional space is needed, use back of form.

LOCATION SKETCH

(Show directions and distance from at least two State Roads. or other map reference points.)

see attached map

REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 14 NCAC 2C, WELL CONSTRUCTION RECORDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Signature of Contractor or Agent Date

Submit original to Division of Environmental Management & copy to well owner.

FIELD BOREHOLE LOG

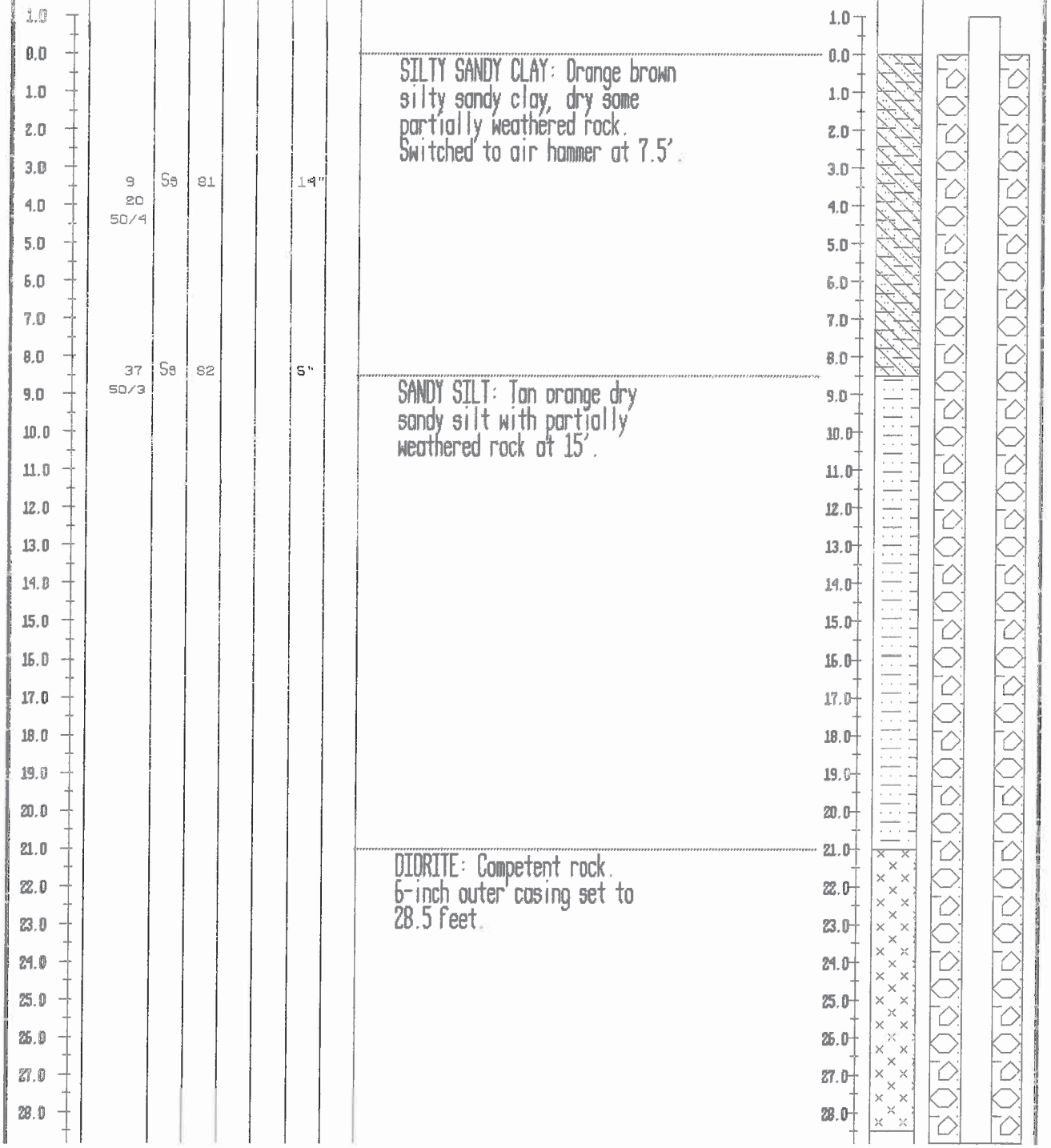
BOREHOLE NUMBER: MW-12

PROJECT NUMBER: DAVDCO-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/28/97 DATE COMPLETED: 7/30/97

TOP OF CASING ELEVATION: 671.48
TOTAL DEPTH: 65.0 FT
GROUND SURFACE ELEVATION: 669.08
SHEET: 1 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	63.7 bg	62.05 bg
Time	-	7:00 pm
Date:	7/31/97	8/1/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
3.0–4.0	9, 20, 50/4	Ss	S1			14"		SILTY SANDY CLAY: Orange brown silty sandy clay, dry some partially weathered rock. Switched to air hammer at 7.5'.
8.0–9.0	37, 50/3	Ss	S2			5"		SANDY SILT: Tan orange dry sandy silt with partially weathered rock at 15'.
21.0–28.0								DIORITE: Competent rock. 6-inch outer casing set to 28.5 feet.



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-12

PROJECT NUMBER: DAVDCO-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/29/97 DATE COMPLETED: 7/30/97

TOP OF CASING ELEVATION: 671.48
TOTAL DEPTH: 65.0 FT
GROUND SURFACE ELEVATION: 669.08
SHEET: 2 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	63.7 bg	62.05 bg
Time	-	7:00 pm
Date:	7/31/97	8/1/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
29.0								DIORITE: No water bearing fractures. Boring Terminated at 65 feet.
30.0								
31.0								
32.0								
33.0								
34.0								
35.0								
36.0								
37.0								
38.0								
39.0								
40.0								
41.0								
42.0								
43.0								
44.0								
45.0								
46.0								
47.0								
48.0								
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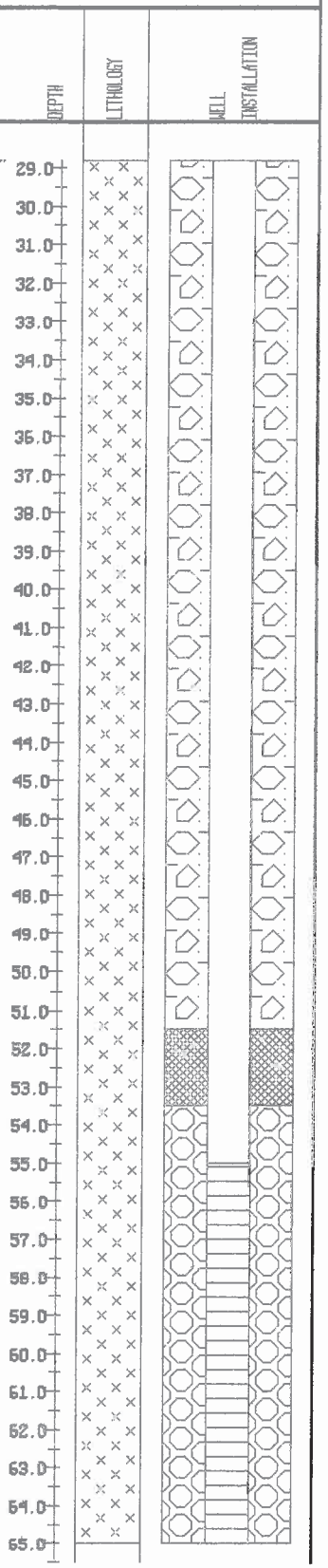
63.0								
64.0								
65.0								



NORTH CAROLINA DEPARTMENT OF HEALTH, ENVIRONMENT, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611, PHONE (919) 783-50S3

FOR OFFICE USE ONLY

Quad No. _____ Serial No. _____
Lat _____ Long. _____ P _____
MinorBasin

WELL CONSTRUCTION RECORD

Davidson County - Holly Grove Assesment
MW-13

DRILLING CONTRACTOR **Engineering Tectonics**

DRILLER REGISTRATION NUMBER **835**

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: **Lexington, North Carolina**
220 Landfill Road, Lexington, North Carolina
(Road, Community, or Subdivision and Lot No.)

County: **Davidson County**

2. OWNER **Davidson County**
ADDRESS **220 Landfill Road**
Lexington **NC** **27292**
City or Town State Zip Code

3. DATE DRILLED **7/29/97** USE OF WELL **Monitoring**

4. TOTAL DEPTH **22.5** Cuttings Collected? ___ Yes ___ No

5. DOES WELL REPLACE EXISTING WELL? ___ Yes **X** No

6. STATIC WATER LEVEL: **16.45** ft ___ above **X** below top of casing.
Top of casing is **2.42** ft above land surface.

7. YIELD (gpm): _____ METHOD OF TEST _____

Water Zones (depth): _____

9. CHLORINATION: Type _____ Amount _____

10. CASING:

From	To	Ft	Diameter	Wall Thicknes or Weight/Ft.	Material
0 ft.	12.5		2-inch	Sch. 40	PVC

11. GROUT:

From	To	Ft.	Material	Method
0 ft.	8.5		Cement	
8.5	10.5		Bentonite	

12. SCREEN:

From	To	Ft	Diameter	Slot Size	Material
12.5	22.5		2 in.	10 in.	PVC
			in.	in.	
			in.	in.	

13. GRAVEL PACK

From	To	Ft	Size	Material
10.5	22.5		Fine Filter	Sand

Depth From	Depth To	Drilling Log: Formation Description
see attached boring logs		

If additional space is needed, use back of form.

LOCATION SKETCH

(Show directions and distance from at least two State Roads. or other map reference points.)

see attached map

REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 14 NCAC 2C, WELL CONSTRUCTION RECORDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Signature of Contractor or Agent Date

Submit original to Division of Environmental Management & copy to well owner.

FIELD BOREHOLE LOG

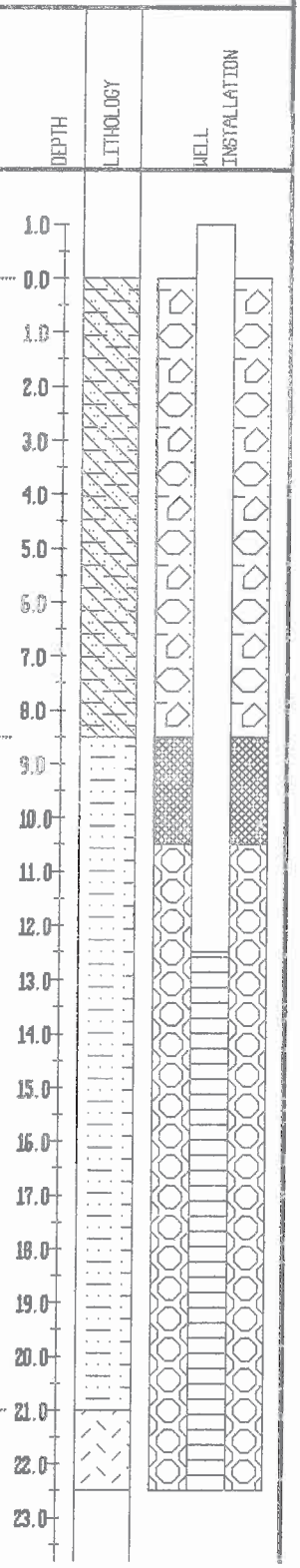
BOREHOLE NUMBER: MW-13

PROJECT NUMBER: DAVDCD-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/29/97 DATE COMPLETED: 7/29/97

TOP OF CASING ELEVATION: 671.31
TOTAL DEPTH: 22.5 FT
GROUND SURFACE ELEVATION: 668.89
SHEET: 1 OF: 1

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	14.50 bg	14.03 bg
Time	-	-
Date:	7/29/97	7/31/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
1.0								
0.0								SILTY SANDY CLAY: Orange brown silty sandy clay, dry some partially weathered rock. Switched to air hammer at 7.5'.
1.0								
2.0								
3.0	9	Ss	S1			14"		
4.0	20 50/4							
5.0								
6.0								
7.0								
8.0	37	Ss	S2			6"		
9.0	50/3							SANDY SILT: Tan orange dry sandy silt with partially weathered rock at 15'.
10.0								
11.0								
12.0								
13.0								
14.0								
15.0								
16.0								
17.0								
18.0								
19.0								
20.0								
21.0								GRANITE: Fairly competent rock. Some partially weathered rock. Boring Terminated at 22.5'.
22.0								
23.0								



NORTH CAROLINA DEPARTMENT OF HEALTH, ENVIRONMENT, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611, PHONE (919) 783-50S3

WELL CONSTRUCTION RECORD

Davidson County - Holly Grove Assesment
MW-14

FOR OFFICE USE ONLY
Quad No. _____ Serial No. _____
Lat _____ Long. _____ P _____
MinorBasin

DRILLING CONTRACTOR **Engineering Tectonics**

DRILLER REGISTRATION NUMBER **835**

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: **Lexington, North Carolina**
220 Landfill Road, Lexington, North Carolina
(Road, Community, or Subdivision and Lot No.)

County: **Davidson County**

2. OWNER **Davidson County**
ADDRESS **220 Landfill Road**
Lexington **NC** **27292**
City or Town State Zip Code

3. DATE DRILLED **7/24/97** USE OF WELL **Monitoring**

4. TOTAL DEPTH **42** Cuttings Collected? ____ Yes ____ No

5. DOES WELL REPLACE EXISTING WELL? ____ Yes **X** No

6. STATIC WATER LEVEL: **15.45** ft ____ above **X** below top of casing.
Top of casing is **2.61** ft above land surface.

7. YIELD (gpm): _____ METHOD OF TEST _____

Water Zones (depth): _____

9. CHLORINATION: Type _____ Amount _____

10. CASING:

	Depth From	Depth To		Diameter	Wall Thicknes or Weight/Ft.	Material
	0 ft.	19	Ft	6-inch	Sch. 40	PVC
	0	42	Ft	2-inch	Sch. 40	PVC
			Ft			

11. GROUT:

	Depth From	Depth To		Material	Method
	0 ft.	29	Ft.	Cement	
	29	31	Ft.	Bentonite	

12. SCREEN:

	Depth From	Depth To		Diameter	Slot Size	Material
	32	42	Ft	2 in.	10 in.	PVC
			Ft	in.	in.	
			Ft	in.	in.	

13. GRAVEL PACK

	Depth From	Depth To		Size	Material
	31	42	Ft	Fine Filter	Sand
			Ft		

Depth From	Depth To	Drilling Log: Formation Description
see attached boring logs		

If additional space is needed, use back of form.

LOCATION SKETCH

(Show directions and distance from at least two State Roads. or other map reference points.)

see attached map

REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 14 NCAC 2C, WELL CONSTRUCTION RECORDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Signature of Contractor or Agent Date

Submit original to Division of Environmental Management & copy to well owner.

FIELD BOREHOLE LOG

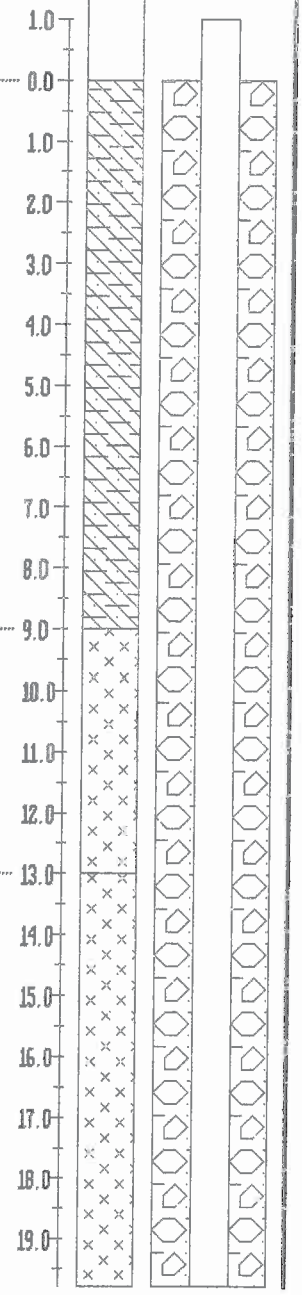
BOREHOLE NUMBER: MW-14

PROJECT NUMBER: DAVDCO-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Roller Bit/Air Hammer
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: J. Finkbeiner
DATE BEGUN: 7/22/97 DATE COMPLETED: 7/24/97

TOP OF CASING ELEVATION: 666.04
TOTAL DEPTH: 42.0 FT
GROUND SURFACE ELEVATION: 663.43
SHEET: 1 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	12.77 bg	12.84 bg
Time	-	-
Date:	7/28/97	7/31/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
1.0								
0.0								CLAYEY SILT: Red brown silty clay to clayey silt.
1.0								
2.0			S1					
3.0		G						
4.0								
5.0			S2					
6.0								
7.0								
8.0		G						
9.0			S3					DIORITE: Partially weathered rock.
10.0			S4					
11.0								
12.0								
13.0		G						DIORITE: Light gray cuttings. Upper 7 feet of rock is fractured; set outer casing at 19.0'.
14.0								
15.0								
16.0								
17.0								
18.0		G						
19.0								



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-14

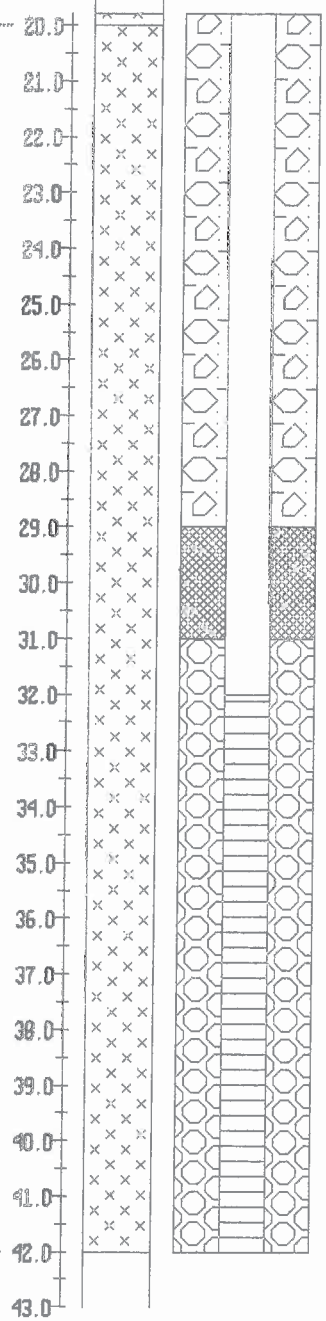
PROJECT NUMBER: DAVDCO-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Roller Bit/Air Hammer
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: J. Finkbeiner
DATE BEGUN: 7/22/97 DATE COMPLETED: 7/24/97

TOP OF CASING ELEVATION: 666.04
TOTAL DEPTH: 42.0 FT
GROUND SURFACE ELEVATION: 663.43
SHEET: 2 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	12.77 bg	12.84 bg
Time	-	-
Date:	7/28/97	7/31/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
20.0								DIORITE: Light gray cuttings. water seam at 38.5 feet.
21.0								
22.0								
23.0		G						
24.0								
25.0			S5					
26.0								
27.0								
28.0		G						
29.0			S6					
30.0								
31.0								
32.0								
33.0		G						
34.0								
35.0								
36.0								
37.0								
38.0		G	S7					
39.0								
40.0								
41.0								
42.0								Boring terminated at 42.0'.
43.0		G						

DEPTH | LITHOLOGY | WELL INSTALLATION



NORTH CAROLINA DEPARTMENT OF HEALTH, ENVIRONMENT, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611, PHONE (919) 783-50S3

FOR OFFICE USE ONLY

Quad No. _____ Serial No. _____
Lat _____ Long. _____ P _____
MinorBasin

WELL CONSTRUCTION RECORD

Davidson County - Holly Grove Assesment
MW-15

DRILLING CONTRACTOR **Engineering Tectonics**

DRILLER REGISTRATION NUMBER **835**

STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: **Lexington, North Carolina**
220 Landfill Road, Lexington, North Carolina
(Road, Community, or Subdivision and Lot No.)

County: **Davidson County**

2. OWNER **Davidson County**
ADDRESS **220 Landfill Road**
Lexington **NC** **27292**
City or Town State Zip Code

3. DATE DRILLED **7/25/97** USE OF WELL **Monitoring**
4. TOTAL DEPTH **23.5** Cuttings Collected? ___ Yes ___ No
5. DOES WELL REPLACE EXISTING WELL? ___ Yes **X** No
6. STATIC WATER LEVEL: **16.79** ft ___ above **X** below top of casing.
Top of casing is **2.04** ft above land surface.
7. YIELD (gpm): _____ METHOD OF TEST _____
Water Zones (depth): _____

Depth From	Depth To	Drilling Log: Formation Description
see attached boring logs		

If additional space is needed, use back of form.

9. CHLORINATION: Type _____ Amount _____

10. CASING:

From (Depth)	To (Depth)	Ft	Diameter	Wall Thicknes or Weight/Ft.	Material
0 ft.	**23.5**		**2-inch**	**Sch. 40**	**PVC**

11. GROUT:

From (Depth)	To (Depth)	Ft.	Material	Method
0 ft.	**5.5**		**Cement**	
5.5	**7.5**		**Bentonite**	

12. SCREEN:

From (Depth)	To (Depth)	Ft	Diameter	Slot Size	Material
8.5	**23.5**		**2** in.	**10** in.	**PVC**
			in.	in.	
			in.	in.	

13. GRAVEL PACK

From (Depth)	To (Depth)	Ft	Size	Material
7.5	**23.5**		**Fine Filter**	**Sand**

LOCATION SKETCH

(Show directions and distance from at least two State Roads. or other map reference points.)

see attached map

REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 14 NCAC 2C, WELL CONSTRUCTION RECORDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Signature of Contractor or Agent Date

Submit original to Division of Environmental Management & copy to well owner.

FIELD BOREHOLE LOG

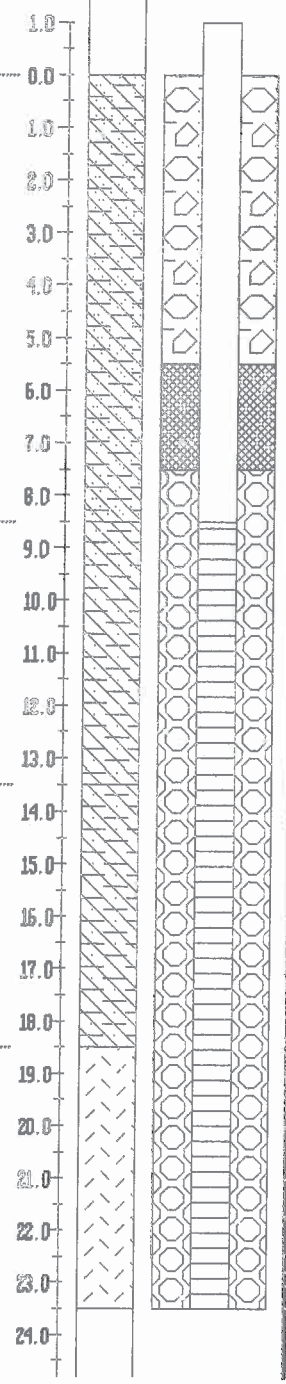
BOREHOLE NUMBER: MW-15

PROJECT NUMBER: DAVDCO-1
PROJECT NAME: Holly Grove Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 80 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/25/97 DATE COMPLETED: 7/25/97

TOP OF CASING ELEVATION: 697.33
TOTAL DEPTH: 23.5 FT
GROUND SURFACE ELEVATION: 695.29
SHEET: 1 OF: 1

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	13.30 bg	14.75
Time	-	-
Date:	7/25/97	7/31/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
1.0								
0.0								SANDY CLAYEY SILT: Dark brown. Has ribbon and cast. ML-CL.
1.0								
2.0								
3.0	1	Ss	S1			18"		
4.0	2							
	2							
5.0								
6.0								
7.0								
8.0	8	Ss	S2			14"		
9.0	12							CLAYEY SILT: Brown gray clayey silt with trace sand. Some ribbon and cast with relict banding. ML.
	21							
10.0								
11.0								
12.0								
13.0	29	Ss	S3			10"		
14.0	50/5							SILTY CLAY: Brown silty clay with ribbon and cast, dry, with 6" partially weathered rock.
15.0								
16.0								
17.0								
18.0	50/4	Ss	S4			6"		
19.0								GRANITE: Tan partially weathered rock. CL. Auger refusal at 23.5 ft.
20.0								
21.0								
22.0								
23.0								
24.0								



Smith Gardner, Inc.

14 North Boylan Avenue, Raleigh NC 27603

(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER **MW-16** Page 1 of 1

PROJECT NAME: **Davidson County - Holly Grove Landfills**

LOCATION: **Lexington, NC**

DRILLING CO: **Engineering Tectonics, P.A.**

DRILLING METHOD: **HSA/AH**

FIELD PARTY: **R. Barron**

GEOLOGIST: **P. May**

DATE BEGUN: **12/7/00** COMPLETED: **1/11/00**

TOTAL DEPTH: **50**

TOP OF CASING ELEV.: GROUND ELEV.: **NA**

NORTHING: **0** EASTING: **0**

STATIC WATER LEVEL (from TOC)		
Depth (ft)	38.0	41.69
Time	16:00	10:00
Date	1/11/00	1/24/01

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
0.0				HSA	PWR: Dry tan-orange partially weathered rock w/ white mottles throughout.		0.0	
5.0	26,50/5"	SS	6"				5.0	
10.0	50/0"	SS	0"	AH	DIORITE: Competent diorite.		10.0	
15.0							15.0	
20.0							20.0	
25.0							25.0	
30.0							30.0	
35.0					DIORITE: Competent diorite. Boring terminated at 50'.		35.0	
40.0							40.0	
45.0							45.0	
50.0							50.0	

Smith Gardner, Inc.

14 North Boylan Avenue, Raleigh NC 27603

(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER **MW-17**

PROJECT NAME: **Davidson County - Holly Grove Landfills**

LOCATION: **Lexington, NC**

DRILLING CO: **Engineering Tectonics, P.A.**

DRILLING METHOD: **HSA/AH**

FIELD PARTY: **R. Barron**

GEOLOGIST: **P. May**

DATE BEGUN: **12/7/00** COMPLETED: **12/8/00**

TOTAL DEPTH: **39.5**

TOP OF CASING ELEV.:

GROUND ELEV.: **NA**

NORTHING: **0**

EASTING: **0**

STATIC WATER LEVEL (from TOC)		
Depth (ft)	38.5	22.5
Time	16:00	8:00
Date	12/7/00	12/8/00

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
0.0				HSA	SILTY SAND: Dry tan-orange fine silty sand w/ iron & manganese mottles		0.0	
5.0	17,34,37	SS	12"				5.0	
10.0	11,13,17	SS	10"		CLAYEY SILTY SAND: Slightly moist brown clayey fine silty sand with iron & manganese mottles and some light gray clay seams.		10.0	
15.0	50/0"	SS	0"	AH	DIORITE: Competent diorite.		15.0	
20.0							20.0	
25.0							25.0	
30.0							30.0	
35.0					DIORITE: Competent diorite. Boring terminated at 39.5'.		35.0	

Pilot Environmental - Holly Grove Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-1A	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7440-39-3	15	Barium	**98.6**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	744-43-9	34	Cadmium	**0.505**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7440-47-3	51	Chromium	**6.49**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7440-50-8	54	Copper	10	µg/L	U	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7782-49-2	183	Selenium	**8.16**	µg/L	J	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-1A	7440-66-6	213	Zinc	**18.3**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-08

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-1A	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	75-35-4	77	1,1-Dichloroethene	**0.17**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	75-34-3	75	1,1-Dichloroethane	**21.3**	µg/L		SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	78-87-5	82	1,2-Dichloropropane	**4.12**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	79-01-6	201	Trichloroethene	**0.57**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	108-90-7	39	Chlorobenzene	**0.57**	µg/L	J	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	156-60-5	79	Trans-1,2-Dichloroethene	**0.66**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	107-06-2	76	1,2-Dichloroethane	**1.66**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	71-43-2	16	Benzene	**4.78**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	75-01-4	211	Vinyl Chloride	**1.72**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	75-00-3	41	Chloroethane	**5.11**	µg/L	J	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	106-46-7	71	1,4-Dichlorobenzene	**4.90**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	156-59-2	78	Cis-1,2-Dichloroethene	**41.0**	µg/L		SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-1A	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34

RAL Sample #: 16656-08

N/A = Not Applicable

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J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill																	
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-2	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7440-39-3	15	Barium	**111**	µg/L		EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	744-43-9	34	Cadmium	**0.395**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7440-47-3	51	Chromium	**4.44**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7440-48-4	53	Cobalt	**6.78**	µg/L	J	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7440-50-8	54	Copper	10	µg/L	U	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7782-49-2	183	Selenium	**6.39**	µg/L	J	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-2	7440-66-6	213	Zinc	**14.7**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-17

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-2	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	75-69-4	203	Trichlorofluoromethane	**0.28**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	108-90-7	39	Chlorobenzene	**1.51**	µg/L	J	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	04/01/2016	34
	MW-2	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-2	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	04/01/2016	34
	MW-2	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-2	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	04/01/2016	34
	MW-2	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	106-46-7	71	1,4-Dichlorobenzene	**0.46**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-2	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-2	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34

RAL Sample #: 16656-17

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-3A	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7440-39-3	15	Barium	**24.7**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7440-41-7	23	Beryllium	**1**	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	744-43-9	34	Cadmium	**0.440**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7440-50-8	54	Copper	10	µg/L	U	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7440-62-2	209	Vanadium	**25**	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-3A	7440-66-6	213	Zinc	**23.0**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-16

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-3A	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	75-35-4	77	1,1-Dichloroethene	**0.15**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	75-34-3	75	1,1-Dichloroethane	**4.23**	µg/L	J	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	108-90-7	39	Chlorobenzene	**0.32**	µg/L	J	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	71-43-2	16	Benzene	**0.31**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	75-01-4	211	Vinyl Chloride	**0.30**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	75-00-3	41	Chloroethane	**0.56**	µg/L	J	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	106-46-7	71	1,4-Dichlorobenzene	**0.54**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	156-59-2	78	Cis-1,2-Dichloroethene	**0.56**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-3A	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34

RAL Sample #: 16656-16

N/A = Not Applicable

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B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-5	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7440-39-3	15	Barium	**41.9**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7440-50-8	54	Copper	10	µg/L	U	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-5	7440-66-6	213	Zinc	**14.2**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-14

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-5	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	75-34-3	75	1,1-Dichloroethane	**0.30**	µg/L	J	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	71-43-2	16	Benzene	**0.11**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	75-00-3	41	Chloroethane	**0.94**	µg/L	J	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	04/01/2016	34
	MW-5	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-5	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	04/01/2016	34
	MW-5	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-5	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	04/01/2016	34
	MW-5	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-5	156-59-2	78	Cis-1,2-Dichloroethene	**0.43**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-5	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34

RAL Sample #: 16656-14

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill																	
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-6	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7440-39-3	15	Barium	**31.3**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7440-47-3	51	Chromium	**6.82**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7440-50-8	54	Copper	**1.82**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7440-62-2	209	Vanadium	**2.59**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-6	7440-66-6	213	Zinc	**30.6**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-09

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-8	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7440-39-3	15	Barium	**39.8**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	744-43-9	34	Cadmium	**0.425**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7440-47-3	51	Chromium	**4.38**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7440-50-8	54	Copper	**3.64**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7440-02-0	152	Nickel	**6.46**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/24/2016	04/04/2016	04/07/2016	34
	MW-8	7440-66-6	213	Zinc	**16.1**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/24/2016	04/04/2016	04/07/2016	34

RAL Sample #: 16722-01

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-8	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	75-35-4	77	1,1-Dichloroethene	**0.32**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	75-34-3	75	1,1-Dichloroethane	**19.8**	µg/L		SW846 8260B	0.2	0.5	5.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	78-87-5	82	1,2-Dichloropropane	**0.26**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	79-01-6	201	Trichloroethene	**2.40**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	107-06-2	76	1,2-Dichloroethane	**0.24**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	71-43-2	16	Benzene	**1.33**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	75-01-4	211	Vinyl Chloride	**0.35**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	75-00-3	41	Chloroethane	**1.49**	µg/L	J	SW846 8260B	0.1	1.0	10.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/24/2016	N/A	04/04/2016	34
	MW-8	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/24/2016	N/A	04/04/2016	34
	MW-8	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/24/2016	N/A	04/04/2016	34
	MW-8	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/24/2016	N/A	04/04/2016	34
	MW-8	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/24/2016	N/A	04/04/2016	34
	MW-8	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	106-46-7	71	1,4-Dichlorobenzene	**0.26**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/24/2016	N/A	04/04/2016	34
	MW-8	156-59-2	78	Cis-1,2-Dichloroethene	**0.86**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/24/2016	N/A	04/04/2016	34
	MW-8	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/24/2016	N/A	04/04/2016	34

RAL Sample #: 16722-01

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-9	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7440-39-3	15	Barium	**187**	µg/L		EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7440-47-3	51	Chromium	**19.9**	µg/L		EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7440-48-4	53	Cobalt	**20.5**	µg/L		EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7440-50-8	54	Copper	**22.3**	µg/L		EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7440-02-0	152	Nickel	**10.9**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7782-49-2	183	Selenium	**3.00**	µg/L	J	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7440-62-2	209	Vanadium	**15.7**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-9	7440-66-6	213	Zinc	**44.1**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-02

N/A = Not Applicable

U = Not detected.
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B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-9	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	75-34-3	75	1,1-Dichloroethane	**0.36**	µg/L	J	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	108-90-7	39	Chlorobenzene	**6.18**	µg/L		SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	71-43-2	16	Benzene	**2.86**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	75-00-3	41	Chloroethane	**0.84**	µg/L	J	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-9	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-9	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-9	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-9	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	03/31/2016	34
	MW-9	95-50-1	69	1,2-Dichlorobenzene	**0.26**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	106-46-7	71	1,4-Dichlorobenzene	**4.19**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-9	156-59-2	78	Cis-1,2-Dichloroethene	**0.29**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-9	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34

RAL Sample #: 16656-02

N/A = Not Applicable

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Pilot Environmental - Holly Grove Landfill																	
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-10	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7440-39-3	15	Barium	**157**	µg/L		EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7440-41-7	23	Beryllium	**1**	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	744-43-9	34	Cadmium	**0.415**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7440-47-3	51	Chromium	**5.35**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7440-48-4	53	Cobalt	**12.6**	µg/L		EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7440-50-8	54	Copper	**8.64**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7440-02-0	152	Nickel	**25.1**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7782-49-2	183	Selenium	**4.64**	µg/L	J	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7440-62-2	209	Vanadium	**6.51**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-10	7440-66-6	213	Zinc	**19.0**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-01

N/A = Not Applicable

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µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-10	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-10	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-10	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-10	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-10	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	03/31/2016	34
	MW-10	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-10	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-10	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34

RAL Sample #: 16656-01

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-11	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7440-39-3	15	Barium	**123**	µg/L		EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	744-43-9	34	Cadmium	**0.770**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7440-47-3	51	Chromium	**0.421**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7440-48-4	53	Cobalt	**2.92**	µg/L	J	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7440-50-8	54	Copper	**44.1**	µg/L		EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7440-02-0	152	Nickel	**14.3**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7782-49-2	183	Selenium	**4.11**	µg/L	J	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-11	7440-66-6	213	Zinc	**16.5**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-05

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-11	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	75-34-3	75	1,1-Dichloroethane	**2.15**	µg/L	J	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	78-87-5	82	1,2-Dichloropropane	**0.28**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	108-90-7	39	Chlorobenzene	**4.10**	µg/L		SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	71-43-2	16	Benzene	**0.26**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	75-01-4	211	Vinyl Chloride	**0.45**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	75-00-3	41	Chloroethane	**0.36**	µg/L	J	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	67-64-1	3	Acetone	**2.10**	µg/L	J	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-11	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-11	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-11	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-11	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	03/31/2016	34
	MW-11	95-50-1	69	1,2-Dichlorobenzene	**0.61**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	106-46-7	71	1,4-Dichlorobenzene	**1.86**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-11	156-59-2	78	Cis-1,2-Dichloroethene	**0.39**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-11	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34

RAL Sample #: 16656-05

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill																	
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-12	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7440-39-3	15	Barium	**67.4**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	744-43-9	34	Cadmium	**0.470**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7440-47-3	51	Chromium	**1.38**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7440-50-8	54	Copper	**1.82**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7440-02-0	152	Nickel	**6.04**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-12	7440-66-6	213	Zinc	**13.2**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-06

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-12	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	75-35-4	77	1,1-Dichloroethene	**0.90**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	75-34-3	75	1,1-Dichloroethane	**9.39**	µg/L		SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	78-87-5	82	1,2-Dichloropropane	**0.37**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	108-90-7	39	Chlorobenzene	**4.62**	µg/L		SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	107-06-2	76	1,2-Dichloroethane	**0.48**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	71-43-2	16	Benzene	**0.96**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	75-00-3	41	Chloroethane	**9.50**	µg/L	J	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-12	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-12	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-12	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-12	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	03/31/2016	34
	MW-12	95-50-1	69	1,2-Dichlorobenzene	**0.48**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	106-46-7	71	1,4-Dichlorobenzene	**4.91**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-12	156-59-2	78	Cis-1,2-Dichloroethene	**0.35**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-12	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34

RAL Sample #: 16656-06

N/A = Not Applicable

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B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-13	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7440-39-3	15	Barium	**180**	µg/L		EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7440-41-7	23	Beryllium	**1**	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	744-43-9	34	Cadmium	**1**	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7440-47-3	51	Chromium	**8.40**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7440-48-4	53	Cobalt	**27.5**	µg/L		EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7440-50-8	54	Copper	10	µg/L	U	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7440-02-0	152	Nickel	**31.4**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7782-49-2	183	Selenium	**5.98**	µg/L	J	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7440-62-2	209	Vanadium	**1.90**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-13	7440-66-6	213	Zinc	**22.4**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-04

N/A = Not Applicable

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B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-13	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	75-35-4	77	1,1-Dichloroethene	**0.15**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	75-34-3	75	1,1-Dichloroethane	**4.87**	µg/L	J	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	79-00-5	202	1,1,2-Trichloroethane	**0.87**	µg/L	J	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	108-90-7	39	Chlorobenzene	**20.6**	µg/L		SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	107-06-2	76	1,2-Dichloroethane	**0.12**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	71-43-2	16	Benzene	**3.20**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	108-88-3	196	Toluene	**0.42**	µg/L	J	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	75-01-4	211	Vinyl Chloride	**0.40**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	75-00-3	41	Chloroethane	**44.0**	µg/L		SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	67-64-1	3	Acetone	**6.57**	µg/L	J	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-13	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-13	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-13	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-13	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	1330-20-7	346	Total Xylenes	**0.95**	µg/L	J	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	03/31/2016	34
	MW-13	95-50-1	69	1,2-Dichlorobenzene	**0.91**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	106-46-7	71	1,4-Dichlorobenzene	**6.02**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-13	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-13	541-73-1	70	1,3-Dichlorobenzene	**0.22**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34

RAL Sample #: 16656-04

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill																	
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-14	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7440-39-3	15	Barium	**30.8**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	744-43-9	34	Cadmium	**0.335**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7440-50-8	54	Copper	10	µg/L	U	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7440-62-2	209	Vanadium	**2.07**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-14	7440-66-6	213	Zinc	**17.6**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-13

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-14	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	75-69-4	203	Trichlorofluoromethane	**2.39**	µg/L		SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	75-34-3	75	1,1-Dichloroethane	**1.81**	µg/L	J	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	75-01-4	211	Vinyl Chloride	**0.10**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	75-00-3	41	Chloroethane	**0.32**	µg/L	J	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	04/01/2016	34
	MW-14	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-14	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	04/01/2016	34
	MW-14	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-14	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	04/01/2016	34
	MW-14	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-14	156-59-2	78	Cis-1,2-Dichloroethene	**0.24**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-14	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34

RAL Sample #: 16656-13

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-15	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7440-39-3	15	Barium	**31.6**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	744-43-9	34	Cadmium	**0.370**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7440-47-3	51	Chromium	**3.44**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7440-48-4	53	Cobalt	**4.14**	µg/L	J	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7440-50-8	54	Copper	**3.36**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7440-02-0	152	Nickel	**2.85**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7440-62-2	209	Vanadium	**3.76**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-15	7440-66-6	213	Zinc	**21.0**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-12

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-15	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	04/01/2016	34
	MW-15	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-15	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	04/01/2016	34
	MW-15	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-15	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	04/01/2016	34
	MW-15	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	MW-15	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	MW-15	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34

RAL Sample #: 16656-12

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-16	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7440-39-3	15	Barium	**29.6**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	744-43-9	34	Cadmium	**0.450**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7440-50-8	54	Copper	10	µg/L	U	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7440-62-2	209	Vanadium	**2.59**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-16	7440-66-6	213	Zinc	**18.7**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-10

N/A = Not Applicable

U = Not detected.
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B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-16	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-16	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-16	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-16	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-16	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	03/31/2016	34
	MW-16	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-16	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-16	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34

RAL Sample #: 16656-10

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill																	
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-17	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7440-39-3	15	Barium	**212**	µg/L		EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	744-43-9	34	Cadmium	**0.355**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7440-47-3	51	Chromium	**1.40**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7440-48-4	53	Cobalt	**4.10**	µg/L	J	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7440-50-8	54	Copper	**1.56**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	MW-17	7440-66-6	213	Zinc	**19.1**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-11

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-17	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	75-34-3	75	1,1-Dichloroethane	**4.1**	µg/L	J	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	78-87-5	82	1,2-Dichloropropane	**0.28**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	75-00-3	41	Chloroethane	**0.26**	µg/L	J	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-17	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-17	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-17	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-17	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	03/31/2016	34
	MW-17	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-17	156-59-2	78	Cis-1,2-Dichloroethene	**0.93**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-17	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34

RAL Sample #: 16656-11

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Pilot Environmental - Holly Grove Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	SW-1	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7440-39-3	15	Barium	**15.9**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7440-50-8	54	Copper	**1.14**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7440-02-0	152	Nickel	**2.16**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-1	7440-66-6	213	Zinc	**22.5**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-15

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Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	SW-1	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	04/01/2016	34
	SW-1	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	SW-1	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	04/01/2016	34
	SW-1	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	SW-1	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	04/01/2016	34
	SW-1	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	04/01/2016	34
	SW-1	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	04/01/2016	34
	SW-1	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	04/01/2016	34

RAL Sample #: 16656-15

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill																	
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	SW-2	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7440-39-3	15	Barium	**20.8**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7440-50-8	54	Copper	**1.26**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7439-92-1	131	Lead	**1.93**	µg/L	J	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7440-02-0	152	Nickel	**2.27**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-2	7440-66-6	213	Zinc	**17.6**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-07

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	SW-2	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	03/31/2016	34
	SW-2	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	SW-2	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	03/31/2016	34
	SW-2	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	SW-2	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	03/31/2016	34
	SW-2	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	SW-2	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-2	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34

RAL Sample #: 16656-07

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	SW-3	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7440-39-3	15	Barium	**70.2**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	744-43-9	34	Cadmium	**0.305**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7440-50-8	54	Copper	**1.72**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7440-02-0	152	Nickel	**3.08**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/23/2016	04/04/2016	04/06/2016	34
	SW-3	7440-66-6	213	Zinc	**37.2**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/23/2016	04/04/2016	04/06/2016	34

RAL Sample #: 16656-03

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	SW-3	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	03/31/2016	34
	SW-3	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	SW-3	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	03/31/2016	34
	SW-3	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	SW-3	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	03/31/2016	34
	SW-3	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	SW-3	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	SW-3	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34

RAL Sample #: 16656-03

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Holly Grove Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-Q	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	75-34-3	75	1,1-Dichloroethane	**10.2**	µg/L		SW846 8260B	0.2	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	78-87-5	82	1,2-Dichloropropane	**0.63**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	127-18-4	192	Tetrachloroethene	**0.58**	µg/L	J	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	107-06-2	76	1,2-Dichloroethane	**0.16**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	156-59-2	78	Cis-1,2-Dichloroethene	**1.31**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/23/2016	N/A	03/31/2016	34
	MW-Q	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/23/2016	N/A	03/31/2016	34

RAL Sample #: 16656-09

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WLC0330**

CLIENT: PILOT ENVIROMENTAL (PROJECT: HOLLY GROVE LANDFILL : # 1763)

Sample ID:	**16656 – 01 – 09**				**INSTUMENT: MS-2**			**Page 1 of 2**	
Extraction Method	N/A								
Date Extracted	N/A								
Weight Extracted	25ML								
Final Extract Volume	25ML								
Date Analyzed	03/30/16								
% Surrogate Recovery	90	94	92						
Acceptance Range	(70-130)	(70-130)	(70-130)						
					MS	**MSD**		**QC LIMITS**	
Compound	**MDL**	**Method**	**LCS %**	**108.2**	**% Rec.**	**% Rec.**	**RPD**	**RPD**	**% REC**
	ug/L	**Blank**	**Recovery**						
DICHLORODIFLUOROMETHANE	0.12	ND	84	70-130					
CHLOROMETHANE	0.07	ND	90	70-130					
VINYL CHLORIDE	0.11	ND	93	70-130					
BROMOMETHANE	0.18	ND	96	70-130					
CHLOROETHANE	0.11	ND	107	70-130					
TRICHLOROFLUOROMETHANE	0.09	ND	105	70-130					
ACETONE	1.18	ND	83	70-130					
ACRYLONITRILE	12.38	ND	93	70-130					
2-BUTANONE	0.88	ND	81	70-130					
1,1-DICHLOROETHENE	0.09	ND	93	70-130	89	91	2	14	70-130
METHYL IODIDE	0.19	ND	100	70-130					
CARBON DISULFIDE	0.45	ND	97	70-130					
METHYLENE CHLORIDE	0.57	ND	88	70-130					
TRANS-1,2-DICHLOROETHENE	0.10	ND	93	70-130					
1,1-DICHLOROETHANE	0.17	ND	93	70-130					
ISOPROPYL ETHER(IPE)	0.12	ND	86	70-130					
METHYL-TERT-BUTYL ETHER(MTBE)	0.16	ND	73	70-130					
VINYL ACETATE	0.24	ND	81	70-130					
CIS-1,2-DICHLOROETHENE	0.09	ND	87	70-130					
2,2-DICHLOROPROPANE	0.09	ND	96	70-130					
BROMOCHLOROMETHANE	0.12	ND	84	70-130					
CHLOROFORM	0.05	ND	89	70-130					
1,1,1-TRICHLOROETHANE	0.12	ND	94	70-130					
CARBON TETRACHLORIDE	0.10	ND	93	70-130					
1,1-DICHLOROPROPENE	0.12	ND	93	70-130					
BENZENE	0.05	ND	110	70-130	96	95	1	11	70-130
ETHYL ACETATE	0.35	ND	81	70-130					
1,2-DICHLOROETHANE	0.09	ND	97	70-130					
TRICHLOROETHENE(TCE)	0.12	ND	101	70-130	92	93	2	14	70-130
1,2-DICHLOROPROPANE	0.10	ND	94	70-130					
DIBROMOETHANE	0.25	ND	89	70-130					

COMMENTS:

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WLC0330** |

CLIENT: PILOT ENVIROMENTAL (PROJECT: HOLLY GROVE LANDFILL : # 1763)

SAMPLE ID:	16656 – 01 – 09			LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
Compound	MDL ug/L	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.07	ND	90	70-130					
4-METHYL-2-PENTANONE	1.01	ND	94	70-130					
CIS-1,3-DICHLOROPROPENE	0.10	ND	91	70-130					
TOLUENE	0.26	ND	94	70-130	89	89	1	13	70-130
TRANS-1,3-DICHLOROPROPENE	0.12	ND	86	70-130					
1,1,2-TRICHLOROETHANE	0.20	ND	87	70-130					
TETRACHLOROETHENE(PCE)	0.17	ND	96	70-130					
2-HEXANONE	1.42	ND	87	70-130					
DIBROMOCHLOROMETHANE	0.07	ND	88	70-130					
1,3-DICHLOROPROPANE	0.13	ND	85	70-130					
1,2-DIBROMOETHANE(EDB)	0.15	ND	87	70-130					
CHLOROBENZENE	0.10	ND	100	70-130	91	91	0	13	70-130
1,1,1,2-TETRACHLOROETHANE	0.10	ND	92	70-130					
ETHYLBENZENE	0.07	ND	101	70-130					
TOTAL XYLENES(M&P, O)	0.29	ND	99	70-130					
STYRENE	0.04	ND	94	70-130					
BROMOFORM	0.29	ND	84	70-130					
ISOPROPYLBENZENE	0.08	ND	103	70-130					
BROMOBENZENE	0.07	ND	98	70-130					
1,2,3-TRICHLOROPROPANE	0.11	ND	90	70-130					
TRANS-1,4-DICHLORO-2-BUTENE	0.52	ND	91	70-130					
N-PROPYLBENZENE	0.08	ND	99	70-130					
2-CHLOROTOLUENE	0.10	ND	96	70-130					
4-CHLOROTOLUENE	0.09	ND	93	70-130					
1,3,5-TRIMETHYLBENZENE	0.07	ND	94	70-130					
TERT-BUTYLBENZENE	0.08	ND	101	70-130					
1,2,4-TRIMETHYLBENZENE	0.07	ND	94	70-130					
SEC-BUTYLBENZENE	0.12	ND	99	70-130					
1,3-DICHLOROBENZENE	0.12	ND	93	70-130					
1,1,2,2-TETRACHLOROETHANE	0.08	ND	91	70-130					
P-ISOPROPYLTOLUENE	0.09	ND	104	70-130					
1,4-DICHLOROBENZENE	0.08	ND	97	70-130					
1,2-DICHLOROBENZENE	0.09	ND	98	70-130					
N-BUTYLBENZENE	0.10	ND	105	70-130					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.49	ND	92	70-130					
1,2,4-TRICHLOROBENZENE	0.47	ND	93	70-130					
NAPHTHALENE	0.18	ND	94	70-130					
1,2,3-TRICHLOROBENZENE	0.18	ND	96	70-130					

COMMENTS:

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC)					**FILE NAME: WLC0331**				
CLIENT: PILOT ENVIROMENTAL (PROJECT: HOLLY GROVE LANDFILL : # 1763)									
Sample ID:	**16656 – 10 – 17**				**INSTUMENT: MS-2**			**Page 1 of 2**	
Extraction Method	N/A								
Date Extracted	N/A								
Weight Extracted	25ML								
Final Extract Volume	25ML								
Date Analyzed	03/31/16								
% Surrogate Recovery	109	98	95						
Acceptance Range	(70-130)	(70-130)	(70-130)						
					MS	**MSD**		**QC LIMITS**	
Compound	**MDL**	**Method**	**LCS %**	**108.2**	**% Rec.**	**% Rec.**	**RPD**	**RPD**	**% REC**
	ug/L	**Blank**	**Recovery**						
DICHLORODIFLUOROMETHANE	0.12	ND	93	70-130					
CHLOROMETHANE	0.07	ND	102	70-130					
VINYL CHLORIDE	0.11	ND	107	70-130					
BROMOMETHANE	0.18	ND	98	70-130					
CHLOROETHANE	0.11	ND	122	70-130					
TRICHLOROFLUOROMETHANE	0.09	ND	114	70-130					
ACETONE	1.18	ND	109	70-130					
ACRYLONITRILE	12.38	ND	124	70-130					
2-BUTANONE	0.88	ND	104	70-130					
1,1-DICHLOROETHENE	0.09	ND	103	70-130	73	76	4	14	70-130
METHYL IODIDE	0.19	ND	114	70-130					
CARBON DISULFIDE	0.45	ND	112	70-130					
METHYLENE CHLORIDE	0.57	ND	108	70-130					
TRANS-1,2-DICHLOROETHENE	0.10	ND	103	70-130					
1,1-DICHLOROETHANE	0.17	ND	112	70-130					
ISOPROPYL ETHER(IPE)	0.12	ND	103	70-130					
METHYL-TERT-BUTYL ETHER(MTBE)	0.16	ND	97	70-130					
VINYL ACETATE	0.24	ND	104	70-130					
CIS-1,2-DICHLOROETHENE	0.09	ND	108	70-130					
2,2-DICHLOROPROPANE	0.09	ND	109	70-130					
BROMOCHLOROMETHANE	0.12	ND	113	70-130					
CHLOROFORM	0.05	ND	110	70-130					
1,1,1-TRICHLOROETHANE	0.12	ND	110	70-130					
CARBON TETRACHLORIDE	0.10	ND	115	70-130					
1,1-DICHLOROPROPENE	0.12	ND	105	70-130					
BENZENE	0.05	ND	112	70-130	75	80	6	11	70-130
ETHYL ACETATE	0.35	ND	104	70-130					
1,2-DICHLOROETHANE	0.09	ND	106	70-130					
TRICHLOROETHENE(TCE)	0.12	ND	101	70-130	85	84	1	14	70-130
1,2-DICHLOROPROPANE	0.10	ND	107	70-130					
DIBROMOETHANE	0.25	ND	102	70-130					
COMMENTS:									

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WLC0331** |

CLIENT: PILOT ENVIROMENTAL (PROJECT: HOLLY GROVE LANDFILL : # 1763)

SAMPLE ID:	16656 – 10 – 17			LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
Compound	MDL ug/L	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.07	ND	103	70-130					
4-METHYL-2-PENTANONE	1.01	ND	108	70-130					
CIS-1,3-DICHLOROPROPENE	0.10	ND	104	70-130					
TOLUENE	0.26	ND	102	70-130	82	80	3	13	70-130
TRANS-1,3-DICHLOROPROPENE	0.12	ND	106	70-130					
1,1,2-TRICHLOROETHANE	0.20	ND	101	70-130					
TETRACHLOROETHENE(PCE)	0.17	ND	103	70-130					
2-HEXANONE	1.42	ND	104	70-130					
DIBROMOCHLOROMETHANE	0.07	ND	103	70-130					
1,3-DICHLOROPROPANE	0.13	ND	102	70-130					
1,2-DIBROMOETHANE(EDB)	0.15	ND	102	70-130					
CHLOROBENZENE	0.10	ND	103	70-130	86	86	0	13	70-130
1,1,1,2-TETRACHLOROETHANE	0.10	ND	100	70-130					
ETHYLBENZENE	0.07	ND	102	70-130					
TOTAL XYLENES(M&P, O)	0.29	ND	102	70-130					
STYRENE	0.04	ND	104	70-130					
BROMOFORM	0.29	ND	98	70-130					
ISOPROPYLBENZENE	0.08	ND	103	70-130					
BROMOBENZENE	0.07	ND	105	70-130					
1,2,3-TRICHLOROPROPANE	0.11	ND	109	70-130					
TRANS-1,4-DICHLORO-2-BUTENE	0.52	ND	111	70-130					
N-PROPYLBENZENE	0.08	ND	104	70-130					
2-CHLOROTOLUENE	0.10	ND	107	70-130					
4-CHLOROTOLUENE	0.09	ND	101	70-130					
1,3,5-TRIMETHYLBENZENE	0.07	ND	106	70-130					
TERT-BUTYLBENZENE	0.08	ND	103	70-130					
1,2,4-TRIMETHYLBENZENE	0.07	ND	101	70-130					
SEC-BUTYLBENZENE	0.12	ND	97	70-130					
1,3-DICHLOROBENZENE	0.12	ND	102	70-130					
1,1,2,2-TETRACHLOROETHANE	0.08	ND	110	70-130					
P-ISOPROPYLTOLUENE	0.09	ND	106	70-130					
1,4-DICHLOROBENZENE	0.08	ND	105	70-130					
1,2-DICHLOROBENZENE	0.09	ND	108	70-130					
N-BUTYLBENZENE	0.10	ND	108	70-130					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.49	ND	101	70-130					
1,2,4-TRICHLOROBENZENE	0.47	ND	109	70-130					
NAPHTHALENE	0.18	ND	111	70-130					
1,2,3-TRICHLOROBENZENE	0.18	ND	113	70-130					

COMMENTS:

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC)				FILE NAME: WLC0404				
CLIENT: PILOT ENVIROMENTAL (PROJECT: HOLLY GROVE LANDFILL : # 1763)								
Sample ID:	16722 – 01				INSTUMENT: MS-2			Page 1 of 2
Extraction Method	N/A							
Date Extracted	N/A							
Weight Extracted	25ML							
Final Extract Volume	25ML							
Date Analyzed	04/04/16							
% Surrogate Recovery	107	107	87					
Acceptance Range	(70-130)	(70-130)	(70-130)					
				108.2	MS	MSD	RPD	QC LIMITS
Compound	MDL	Method	LCS %		% Rec.	% Rec.		RPD / % REC
	ug/L	Blank	Recovery					
DICHLORODIFLUOROMETHANE	0.12	ND	85	70-130				
CHLOROMETHANE	0.07	ND	99	70-130				
VINYL CHLORIDE	0.11	ND	101	70-130				
BROMOMETHANE	0.18	ND	104	70-130				
CHLOROETHANE	0.11	ND	124	70-130				
TRICHLOROFLUOROMETHANE	0.09	ND	115	70-130				
ACETONE	1.18	ND	92	70-130				
ACRYLONITRILE	12.38	ND	118	70-130				
2-BUTANONE	0.88	ND	89	70-130				
1,1-DICHLOROETHENE	0.09	ND	107	70-130	95	94	1	14 / 70-130
METHYL IODIDE	0.19	ND	114	70-130				
CARBON DISULFIDE	0.45	ND	111	70-130				
METHYLENE CHLORIDE	0.57	ND	111	70-130				
TRANS-1,2-DICHLOROETHENE	0.10	ND	110	70-130				
1,1-DICHLOROETHANE	0.17	ND	113	70-130				
ISOPROPYL ETHER(IPE)	0.12	ND	107	70-130				
METHYL-TERT-BUTYL ETHER(MTBE)	0.16	ND	88	70-130				
VINYL ACETATE	0.24	ND	89	70-130				
CIS-1,2-DICHLOROETHENE	0.09	ND	100	70-130				
2,2-DICHLOROPROPANE	0.09	ND	110	70-130				
BROMOCHLOROMETHANE	0.12	ND	109	70-130				
CHLOROFORM	0.05	ND	106	70-130				
1,1,1-TRICHLOROETHANE	0.12	ND	109	70-130				
CARBON TETRACHLORIDE	0.10	ND	111	70-130				
1,1-DICHLOROPROPENE	0.12	ND	110	70-130				
BENZENE	0.05	ND	110	70-130	95	92	4	11 / 70-130
ETHYL ACETATE	0.35	ND	89	70-130				
1,2-DICHLOROETHANE	0.09	ND	106	70-130				
TRICHLOROETHENE(TCE)	0.12	ND	105	70-130	97	93	5	14 / 70-130
1,2-DICHLOROPROPANE	0.10	ND	112	70-130				
DIBROMOETHANE	0.25	ND	108	70-130				

COMMENTS:

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WLC0404** |

CLIENT: PILOT ENVIROMENTAL (PROJECT: HOLLY GROVE LANDFILL : # 1763)

SAMPLE ID:	16722 – 01			LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
Compound	MDL ug/L	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.07	ND	110	70-130					
4-METHYL-2-PENTANONE	1.01	ND	106	70-130					
CIS-1,3-DICHLOROPROPENE	0.10	ND	108	70-130					
TOLUENE	0.26	ND	110	70-130	93	87	6	13	70-130
TRANS-1,3-DICHLOROPROPENE	0.12	ND	108	70-130					
1,1,2-TRICHLOROETHANE	0.20	ND	107	70-130					
TETRACHLOROETHENE(PCE)	0.17	ND	114	70-130					
2-HEXANONE	1.42	ND	96	70-130					
DIBROMOCHLOROMETHANE	0.07	ND	108	70-130					
1,3-DICHLOROPROPANE	0.13	ND	105	70-130					
1,2-DIBROMOETHANE(EDB)	0.15	ND	103	70-130					
CHLOROBENZENE	0.10	ND	106	70-130	102	95	8	13	70-130
1,1,1,2-TETRACHLOROETHANE	0.10	ND	101	70-130					
ETHYLBENZENE	0.07	ND	107	70-130					
TOTAL XYLENES(M&P, O)	0.29	ND	104	70-130					
STYRENE	0.04	ND	105	70-130					
BROMOFORM	0.29	ND	90	70-130					
ISOPROPYLBENZENE	0.08	ND	107	70-130					
BROMOBENZENE	0.07	ND	99	70-130					
1,2,3-TRICHLOROPROPANE	0.11	ND	97	70-130					
TRANS-1,4-DICHLORO-2-BUTENE	0.52	ND	96	70-130					
N-PROPYLBENZENE	0.08	ND	103	70-130					
2-CHLOROTOLUENE	0.10	ND	103	70-130					
4-CHLOROTOLUENE	0.09	ND	100	70-130					
1,3,5-TRIMETHYLBENZENE	0.07	ND	101	70-130					
TERT-BUTYLBENZENE	0.08	ND	103	70-130					
1,2,4-TRIMETHYLBENZENE	0.07	ND	100	70-130					
SEC-BUTYLBENZENE	0.12	ND	94	70-130					
1,3-DICHLOROBENZENE	0.12	ND	98	70-130					
1,1,2,2-TETRACHLOROETHANE	0.08	ND	107	70-130					
P-ISOPROPYLTOLUENE	0.09	ND	110	70-130					
1,4-DICHLOROBENZENE	0.08	ND	112	70-130					
1,2-DICHLOROBENZENE	0.09	ND	107	70-130					
N-BUTYLBENZENE	0.10	ND	115	70-130					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.49	ND	107	70-130					
1,2,4-TRICHLOROBENZENE	0.47	ND	111	70-130					
NAPHTHALENE	0.18	ND	110	70-130					
1,2,3-TRICHLOROBENZENE	0.18	ND	110	70-130					

COMMENTS:

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #94 DIRECTOR CERTIFIED ANALYSIS

Quality Control Summary Results for Project Identified as Holly Grove Landfill (A Pilot Environmental Project, 23 March 2016)

Inorganics Parameter	Prep. Blank (µg/L)	ICV Recovery %	CCV Recovery %	LCS Recovery %	Spike Recovery %	% Difference
Antimony	BDL	104	96 91 94	90	92	<1
Arsenic	BDL	104	96 92 94	88	93	<1
Barium	BDL	109	97 93 95	92	92	<1
Beryllium	BDL	108	98 94 99	92	96	1
Cadmium	BDL	104	96 92 94	89	92	<1
Cobalt	BDL	108	97 93 95	92	88	<1
Copper	BDL	110	97 92 98	91	91	<1
Chromium	BDL	107	97 93 99	89	87	<1
Iron	BDL	104	93 100 94	91	113	<1
Manganese	BDL	108	98 93 99	93	101	<1
Lead	BDL	108	98 94 96	92	86	<1
Nickel	BDL	108	97 93 95	93	89	<1
Selenium	BDL	103	97 93 95	90	95	<1
Silver	BDL	106	93 105 95	89	94	1
Vanadium	BDL	106	97 92 98	88	89	1
Zinc	BDL	107	100 96 98	94	91	<1

COMMENTS: 16656-01-17

% = Percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

LCS = Laboratory Control Sample

N/A = Not Available

*** Post Spike**

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #94 DIRECTOR CERTIFIED ANALYSIS

Quality Control Summary Results for Project Identified as Holly Grove Landfill (A Pilot Environmental Project, 23 March 2016)

Inorganics Parameter	Prep. Blank (µg/L)	ICV Recovery %	CCV Recovery %	LCS Recovery %	Spike Recovery %	% Difference
Antimony	BDL	102	100 100	105	102	2
Arsenic	BDL	102	100 100	104	96	<1
Barium	BDL	108	102 100	108	98	<1
Beryllium	BDL	104	104 104	108	106	<1
Cadmium	BDL	103	101 100	105	98	1
Cobalt	BDL	106	102 102	108	98	<1
Copper	BDL	105	102 103	108	96	<1
Chromium	BDL	104	103 102	107	99	<1
Iron	BDL	104	98 98	113	97	<1
Manganese	BDL	110	105 103	112	103	1
Lead	BDL	109	102 101	108	98	1
Nickel	BDL	109	102 101	108	98	<1
Selenium	BDL	100	100 100	103	96	<1
Silver	BDL	105	100 99	102	101	2
Vanadium	BDL	103	103 102	107	101	<1
Zinc	BDL	104	103 101	108	102	1

COMMENTS: 16722-01

% = Percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

LCS = Laboratory Control Sample

N/A = Not Available

*** Post Spike**

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: Alot Environmental
JOB NO.: 1763
STREET ADDRESS: 743 Parkleaven Ct
PROJECT: Holly Grove Landfill
CITY, STATE, ZIP: Kernersville
SAMPLER NAME (PLEASE PRINT): Toby Benfield
CONTACT: Toby Benfield
PHONE: 708-7812
SAMPLER SIGNATURE:

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl (mg/L)	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	REQUESTED ANALYSIS
160510-01	3/23/14	815							MW-10	5	8260B/200.7 Metals
02		845							MW-9		
03		830							SW-3 Hg		*Hg too!
04		935							MW-13		
05		920							MW-11		
06		1010							MW-12		
07		940							SW-2 HG		*Hg too!
									~~MW 8~~		
08		1125							MW-1A		
09		1145							MW-8		
10		1210							MW-16		
11		1225							MW-17		
12		1340							MW-15		
13		1520							MW-14		
14		1440							MW-5		
15		1420							SW-1 HG		*Hg too
16		1630							MW-3A		
17		1740							MW-2		

WATER / WASTEWATER: 2L G (BNA, Herb. / Pest.); 2 40ml Vials (VOA) HCL; 250ml G (TOX); 250ml P (TOC) H_2SO_4; 1L P, G (BOD, TSS, Unpreserved, etc.); 1L G (Phenol, Oil & Grease) H_2SO_4; 1L P, G (COD, N, P) H_2SO_4; 1L P, G (Metals, Hardness) HNO_3; 1L P, G (CYANIDE) NaOH; Sterile P, G (Coliform)
MISC.

RELINQUISHED BY	DATE/TIME	RECEIVED BY
	3-28-14 10am	
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: *each one of these projects need to be on seperate reports.
-metals see attached

SAMPLE TEMPERATURE AT RECEIPT: 3.1 °C (on ice)

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: Pilot Env.
STREET ADDRESS:
CITY, STATE, ZIP:
CONTACT: Toby Benfield
PHONE: 708-7812
JOB NO.:
PROJECT: Mollie Grove Land Fill
SAMPLER NAME (PLEASE PRINT):
SAMPLER SIGNATURE:

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl (mg/L)	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P, G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P, G (COD, N, P) H_2SO_4	1L P, G (Metals, Hardness) HNO_3	1L P, G (CYANIDE) NaOH	Sterile P, G (Coliform)	WATER / WASTEWATER	MISC.	REQUESTED ANALYSIS
16072201	3-24-16	14:02							MW-8	5													8260B 200.7 Metal, ~~Include Hg~~ MM 3/25/16

RELINQUISHED BY	DATE/TIME	RECEIVED BY
	3-25-16 11:00	
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS:

Online

SAMPLE TEMPERATURE AT RECEIPT 3.1 °C