

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)).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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):

Municipal Engineering Services Co., P.A. (MESCO)

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

Name: Jonathan Pfohl

Phone: (919) 772-5393

E-mail: jpfohl@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Lenoir County Subtitle D Lined MSWLF, Phase 1	2949 Hodges Farm Road LaGrange, NC 28501	54-09	.1600	January 28, 2009

**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  Methane gas monitoring data  
 Groundwater monitoring data from private water supply wells  Corrective action data (specify) \_\_\_\_\_  
 Leachate monitoring data  Other(specify) \_\_\_\_\_  
 Surface water monitoring data

**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.

Jonathan Pfohl

Environmental Specialist

(919) 772-5393

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Signature

6/8/09

Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

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# Groundwater Sampling Report and Statistical Analysis

*Prepared for*

Lenoir County Subtitle D Lined MSWLF  
LaGrange, North Carolina

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**January 2009**

**Permit Number: 54-09**

**MESCO Project Number: G09029.0**

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Completed on June 8, 2009



Municipal Engineering Services Company, P.A.  
Garner, Boone and Morehead City, North Carolina

**Municipal  
Services****Engineering  
Company, P.A.**

June 8, 2009

Ms. Jaclyne Drummond  
Solid Waste Section  
Division of Waste Management  
North Carolina Department of Environment and Natural Resources  
401 Oberlin Road, Suite 150  
Raleigh, NC 27605

Re: Groundwater Sampling and Statistical Analysis  
Lenoir County Subtitle D Lined Landfill, Phase 1  
Permit No. 54-09  
MESCO Project No. G09029.0

Dear Ms. Drummond:

### **Introduction**

The Lenoir County Subtitle D Lined MSWLF located near LaGrange NC, currently operating under permit #54-09 is required to submit semi-annual detection monitoring and statistical analysis compliance reports as a condition of 15A NCAC 13B.1630. This sampling event was conducted on January 28, 2009 and was performed in accordance with the semi-annual monitoring schedule prescribed by the NC Solid Waste Section rules/regulations.

The approved current site specific Sampling and Analysis Plan (SAP) (2002) consists of collection of water samples from six groundwater locations, one surface water point, and the leachate lagoon invert. This report includes a summary of field procedures, laboratory analysis, statistical analysis, tables and graphs of current/historical data, single-day potentiometric map with flow directions/rates, and the complete laboratory analytical report.

### **Sampling Procedure**

Environment 1, Inc. (E1) of Greenville, NC performed both the collection of water samples and the laboratory analysis for this sampling event. This sampling event consisted of collection of water samples from all five downgradient groundwater monitoring wells (MW-14, MW-15, MW-16, MW-17, MW-18), one background well (MW-13), and the leachate lagoon (LAGOON). Surface water monitoring location SW-3 was reported to be dry therefore not sampled. All monitoring locations are shown upon the enclosed single-day potentiometric map.

All sampling was reported to be conducted utilizing methodology outlined in the NCDENR *Solid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling* revised April 2008. The depth to water in each well was gaged prior to purging to quantify the static water level and used to construct the attached single-day potentiometric map. All of the collected samples were transported under proper chain of custody (C-O-C) within the specified hold times for each analysis. The required field parameters (pH, specific conductance, and temperature) were reported by E1.

## Field and Laboratory Results

All of the groundwater monitoring wells contained in the SAP were reportedly sampled and analyzed for the complete Appendix I list of volatile organic compounds (VOCs) per EPA 8260B and the complete Appendix I list of metals per EPA 200.8. Quality control measures were also implemented during this event which included submittal and subsequent quantification of a travel blank (TB) and equipment blank (EB).

The field parameters are included in the laboratory analysis report and the data appears to be generally consistent relative to each other and congruent with data historically reported. All water samples were analyzed utilizing the method detection limit (MDL) with reference to the Solid Waste Section detection limit (SWSL) values current as of the sampling event. All detected constituents were referenced to the Groundwater Protection Standards (GWP) and compared to the North Carolina Groundwater Standards (NCGW2L) for regulatory exceedance. The results are shown in the enclosed tables titled "Detection Scan".

Quantifiable concentrations (>SWSL) of VOCs continue to be absent from all monitoring locations including the leachate lagoon. The only metal detected in a concentrations in exceedance of it's NCGW2L Standard was lead, as summarized in the following Table 1.

**Table 1.** Groundwater Exceedance Summary (Total Metals)

Well	Lead
NCGW2L	15
MW-13 (background)	<u>44</u>
MW-17	<u>16</u>
Total	60

*Italicized* indicates found above own respective historical identified range. "j" <SWSL therefore estimated concentration. All concentration shown in ug/L.

Background well MW-13 and MW-17, located upgradient of the MSWLF but designed to monitor downgradient of the leachate lagoon, were the only locations found to contain metals in concentrations above the SWSL. Concentrations of lead were found in exceedance of the NCGW2L and outside of their own respective identified range from samples taken from both MW-13 and MW-17. Quantifiable concentrations of lead have never been detected within water samples obtained from the leachate lagoon.

In preparation for statistical analysis, a preliminary data screening was conducted upon all of the constituents detected in all monitoring locations. Detected parameters with concentrations found below the background levels and below quantifiable levels were eliminated. Since none of the parameters were found in concentrations above the established background levels a statistical analysis was not performed for this event.

## Groundwater and Surface Water Characterization

MESCO prepared and enclosed the required single-day potentiometric map from groundwater elevation data reported by E1 during this event. Groundwater flow rates and directions were also calculated based upon this data and are included in the attached table. The flow rates ranged from approximately 3ft./yr. (MW-13) to 291 ft./yr. (MW-14) averaging approximately 125 ft./yr. The flow directions are oriented in a general northeastern direction which are consistent with historical observations.

## Conclusion

The results of this monitoring event indicate that the groundwater quality beneath the Lenoir County Subtitle D Lined MSWLF has not been impacted. The presence of lead is considered background and not related to the MSWLF. MESCO recommends continuation of detection monitoring with the next semi-annual water sampling event tentatively scheduled for July 2009. Please contact me by phone at (919) 772-5393 or by email at [jpfohl@mesco.com](mailto:jpfohl@mesco.com) if you have any questions or comments.

Sincerely,  
MUNICIPAL ENGINEERING SERVICES CO., P.A.

A handwritten signature in blue ink that reads "Jonathan Pfohl". The signature is cursive and fluid.

Jonathan Pfohl  
Environmental Specialist

Enclosures

cc: Mr. Tom Miller  
Lenoir County

**Detection Scan All Detections above SWSL, GWP, and NCGW2L, NCSW2B  
Lenoir County Subtitle D Lined MSWLF**

Sample ID	Parameter Name <sup>1</sup>	Sample Date	Result	Unit	MDL <sup>2</sup>	SWSL <sup>3</sup>	NCGW2L <sup>4</sup>	GWP <sup>6</sup>	Exceedance	Preliminary Cause
MW-13	Barium	1/28/09	267	ug/l	0.11	100	2000			
MW-13	Beryllium	1/28/09	2	ug/l	0.06	1		2		
MW-13	Chromium	1/28/09	28	ug/l	0.11	10	50			
<b>MW-13</b>	<b>Lead</b>	<b>1/28/09</b>	<b>44</b>	<b>ug/l</b>	<b>0.04</b>	<b>10.0</b>	<b>15</b>		<b>29</b>	<b>Natural</b>
<b>MW-13</b>	<b>Vanadium</b>	<b>1/28/09</b>	<b>55</b>	<b>ug/l</b>	<b>0.07</b>	<b>25.0</b>		<b>3.5</b>	<b>51.5</b>	<b>Natural</b>
MW-13	Zinc	1/28/09	35	ug/l	0.04	10	1050			
MW-17	Barium	1/28/09	146	ug/l	0.11	100	2000			
MW-17	Chromium	1/28/09	15	ug/l	0.11	10	50			
<b>MW-17</b>	<b>Lead</b>	<b>1/28/09</b>	<b>16</b>	<b>ug/l</b>	<b>0.04</b>	<b>10.0</b>	<b>15</b>		<b>1</b>	<b>Natural</b>
<b>MW-17</b>	<b>Vanadium</b>	<b>1/28/09</b>	<b>30</b>	<b>ug/l</b>	<b>0.07</b>	<b>25.0</b>		<b>3.5</b>	<b>26.5</b>	<b>Natural</b>
MW-17	Zinc	1/28/09	17	ug/l	0.04	10	1050			
<b>MW-18</b>	<b>Vanadium</b>	<b>1/28/09</b>	<b>7.5<sup>j</sup></b>	<b>ug/l</b>	<b>0.07</b>	<b>25.0</b>		<b>3.5</b>	<b>4</b>	<b>Natural</b>

<sup>1</sup> Table contains only constituents detected above SWSL, GWP, NCGW2L, or NCSW2B

<sup>2</sup> MDL = Method Detection Limit

<sup>3</sup> SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

<sup>4</sup> NCGW2L = North Carolina 15A NCAC 2L Groundwater Quality Standard (Current as of Sampling Event)

<sup>5</sup> NCSW2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for this Specific Stream Classification (Current as of Sampling Event)

<sup>j</sup> =The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture content

LFG = Landfill Gas

Detection Scan All Detections Reported by Laboratory  
 Lenoir County Subtitle D Lined MSWLF

Sample ID	Parameter Name <sup>1</sup>	Sample Date	Result	Unit	MDL <sup>2</sup>	SWSL <sup>3</sup>	NCGW2L <sup>4</sup>	GWP <sup>6</sup>	Exceedance	Preliminary Cause
MW-13	Antimony	1/28/09	0.1	ug/l	0.08	6.0		1.4		
MW-13	Arsenic	1/28/09	8.9	ug/l	0.07	10.0	50			
MW-13	Barium	1/28/09	267	ug/l	0.11	100.0	2000			
MW-13	Beryllium	1/28/09	2	ug/l	0.06	1.0		2		
MW-13	Cadmium	1/28/09	0.4	ug/l	0.04	1.0	1.75			
MW-13	Chromium	1/28/09	28	ug/l	0.11	10.0	50			
MW-13	Cobalt	1/28/09	2.4	ug/l	0.03	10.0		70		
MW-13	Copper	1/28/09	6.1	ug/l	0.05	10.0	1000			
<b>MW-13</b>	<b>Lead</b>	<b>1/28/09</b>	<b>44</b>	<b>ug/l</b>	<b>0.04</b>	<b>10.0</b>	<b>15</b>		<b>29</b>	<b>Natural</b>
MW-13	Nickel	1/28/09	3.6	ug/l	0.06	50.0	100			
MW-13	Selenium	1/28/09	0.6	ug/l	0.14	10.0	50			
MW-13	Silver	1/28/09	0.1	ug/l	0.04	10.0	18			
MW-13	Thallium	1/28/09	0.3	ug/l	0.04	5.0		2.28		
<b>MW-13</b>	<b>Vanadium</b>	<b>1/28/09</b>	<b>55</b>	<b>ug/l</b>	<b>0.07</b>	<b>25.0</b>		<b>3.5</b>	<b>51.5</b>	<b>Natural</b>
MW-13	Zinc	1/28/09	35	ug/l	0.04	10.0	1050			
MW-14	Barium	1/28/09	20.9	ug/l	0.11	100.0	2000			
MW-14	Beryllium	1/28/09	0.1	ug/l	0.06	1.0		2		
MW-14	Chromium	1/28/09	0.9	ug/l	0.11	10.0	50			
MW-14	Cobalt	1/28/09	0.5	ug/l	0.03	10.0		70		
MW-14	Copper	1/28/09	0.6	ug/l	0.05	10.0	1000			
MW-14	Lead	1/28/09	1.2	ug/l	0.04	10.0	15			
MW-14	Nickel	1/28/09	0.4	ug/l	0.06	50.0	100			
MW-14	Vanadium	1/28/09	1.1	ug/l	0.07	25.0		3.5		
MW-14	Zinc	1/28/09	0.7	ug/l	0.04	10.0	1050			
MW-15	Arsenic	1/28/09	0.2	ug/l	0.07	10.0	50			
MW-15	Barium	1/28/09	34.2	ug/l	0.11	100.0	2000			
MW-15	Chromium	1/28/09	0.2	ug/l	0.11	10.0	50			
MW-15	Cobalt	1/28/09	1	ug/l	0.03	10.0		70		
MW-15	Copper	1/28/09	1.2	ug/l	0.05	10.0	1000			
MW-15	Lead	1/28/09	0.1	ug/l	0.04	10.0	15			
MW-15	Nickel	1/28/09	0.8	ug/l	0.06	50.0	100			
MW-15	Silver	1/28/09	0.1	ug/l	0.04	10.0	18			
MW-15	Vanadium	1/28/09	0.2	ug/l	0.07	25.0		3.5		
MW-15	Zinc	1/28/09	0.9	ug/l	0.04	10.0	1050			
MW-16	Barium	1/28/09	13.2	ug/l	0.11	100.0	2000			
MW-16	Beryllium	1/28/09	0.1	ug/l	0.06	1.0		2		
MW-16	Cobalt	1/28/09	0.3	ug/l	0.03	10.0		70		
MW-16	Copper	1/28/09	0.4	ug/l	0.05	10.0	1000			
MW-16	Lead	1/28/09	0.1	ug/l	0.04	10.0	15			
MW-16	Nickel	1/28/09	0.2	ug/l	0.06	50.0	100			
MW-16	Silver	1/28/09	0.1	ug/l	0.04	10.0	18			
MW-16	Thallium	1/28/09	0.2	ug/l	0.04	5.0		1.28		

Sample ID	Parameter Name <sup>1</sup>	Sample Date	Result	Unit	MDL <sup>2</sup>	SWSL <sup>3</sup>	NCGW2L <sup>4</sup>	GWP <sup>6</sup>	Exceedance	Preliminary Cause
MW-16	Vanadium	1/28/09	0.2	ug/l	0.07	25.0		3.5		
MW-16	Zinc	1/28/09	0.4	ug/l	0.04	10.0	1050			
MW-17	Antimony	1/28/09	0.1	ug/l	0.08	6.0		1.4		
MW-17	Arsenic	1/28/09	7.6	ug/l	0.07	10.0	50			
MW-17	Barium	1/28/09	146	ug/l	0.11	100.0	2000			
MW-17	Beryllium	1/28/09	0.9	ug/l	0.06	1.0		2		
MW-17	Cadmium	1/28/09	0.2	ug/l	0.04	1.0	1.75			
MW-17	Chromium	1/28/09	15	ug/l	0.11	10.0	50			
MW-17	Cobalt	1/28/09	2.1	ug/l	0.03	10.0		70		
MW-17	Copper	1/28/09	2.6	ug/l	0.05	10.0	1000			
<b>MW-17</b>	<b>Lead</b>	<b>1/28/09</b>	<b>16</b>	<b>ug/l</b>	<b>0.04</b>	<b>10.0</b>	<b>15</b>		<b>1</b>	<b>Natural</b>
MW-17	Nickel	1/28/09	1.9	ug/l	0.06	50.0	100			
MW-17	Selenium	1/28/09	0.4	ug/l	0.14	10.0	50			
MW-17	Thallium	1/28/09	0.1	ug/l	0.04	5.0		0.28		
<b>MW-17</b>	<b>Vanadium</b>	<b>1/28/09</b>	<b>30</b>	<b>ug/l</b>	<b>0.07</b>	<b>25.0</b>		<b>3.5</b>	<b>26.5</b>	<b>Natural</b>
MW-17	Zinc	1/28/09	17	ug/l	0.04	10.0	1050			
MW-18	Arsenic	1/28/09	1	ug/l	0.07	10.0	50			
MW-18	Barium	1/28/09	47.5	ug/l	0.11	100.0	2000			
MW-18	Beryllium	1/28/09	0.2	ug/l	0.06	1.0		2		
MW-18	Cadmium	1/28/09	0.1	ug/l	0.04	1.0	1.75			
MW-18	Chromium	1/28/09	3.5	ug/l	0.11	10.0	50			
MW-18	Cobalt	1/28/09	0.9	ug/l	0.03	10.0		70		
MW-18	Copper	1/28/09	0.9	ug/l	0.05	10.0	1000			
MW-18	Lead	1/28/09	3	ug/l	0.04	10.0	15			
MW-18	Nickel	1/28/09	1	ug/l	0.06	50.0	100			
<b>MW-18</b>	<b>Vanadium</b>	<b>1/28/09</b>	<b>7.5<sup>j</sup></b>	<b>ug/l</b>	<b>0.07</b>	<b>25.0</b>		<b>3.5</b>	<b>4</b>	<b>Natural</b>
MW-18	Zinc	1/28/09	4.8	ug/l	0.04	10.0	1050			
LAGOON	Total Phosphorus	1/23/08	80	ug/l	40	40				
LAGOON	Lead	1/23/08	0.7	ug/l	0.04	10	15			
LAGOON	Nickel	1/23/08	14.7	ug/l	1.35	50	100			
LAGOON	Selenium	1/23/08	5.3	ug/l	0.14	10	50			
LAGOON	Arsenic	1/23/08	4.8	ug/l	0.07	10	50			
LAGOON	Copper	1/23/08	7	ug/l	0.05	10	1000			
LAGOON	Chromium	1/23/08	1.7	ug/l	0.11	10	50			
LAGOON	Benzene	1/23/08	0.5	ug/l	0.16	1	1			
LAGOON	4-Methyl-2-Pentanone	1/23/08	1.1	ug/l	0.68	100				
LAGOON	Toluene	1/23/08	0.2	ug/l	0.13	10	1000			
LAGOON	Zinc	1/23/08	14	ug/l	1.86	100	1050			
LAGOON	Acetone	1/23/08	12.3	ug/l	1.21	100	700			
LAGOON	2-Butanone	1/23/08	3	ug/l	0.85	100	4200			

<sup>1</sup> Table contains all constituents detected above MDL

<sup>2</sup> MDL = Method Detection Limit

<sup>3</sup> SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

<sup>4</sup> NCGW2L = North Carolina Ground Water 2L Standard (Current as of Sampling Event)

<sup>6</sup> GWP = Groundwater Protection Standard (Current as of Sampling Event)

<sup>j</sup> = The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture content, where applicable.

LFG = Landfill Gas

NE = Not Established

**BOLD** = Concentration >GWP, NCGW2L, or NCSW2B Standard (Current as of Sampling Event)

**Hydrologic Properties at Monitoring Well Locations  
Lenoir County Subtitle D Lined MSWLF**

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elevation (ft)	Screened Interval Lithology
MW-13	7.69E-05	23%	0.010	3	N89E	28.68	79.13	Silty Sand
MW-14	3.38E-03	23%	0.019	291	N60E	12.55	62.26	Silty Sand
MW-15	2.89E-03	22%	0.021	281	N81E	7.15	64.49	Silty Sand
MW-16	9.72E-04	23%	0.028	124	N87E	8.24	68.12	Silty Sand
MW-17	1.13E-03	23%	0.008	38	N87E	28.24	72.82	Silty Sand
MW-18	1.25E-04	23%	0.018	10	N87E	30.17	76.57	Silty Clayey Sand

- NOTE: 1. Hydraulic conductivity (K), values for all wells based upon slug test results conducted by MESCO in December 2005.  
 2. Effective Porosity (ne), values obtained from the MESCO design hydrogeologic report completed in August 2002.  
 3. Water levels were measured prior to sampling by Environment 1, Inc. on January 28, 2009.

Flow rate (*Q*) is defined by the equation:

where 
$$Q = - \frac{K}{n_e} \cdot \frac{dh}{dl}$$

K = hydraulic conductivity

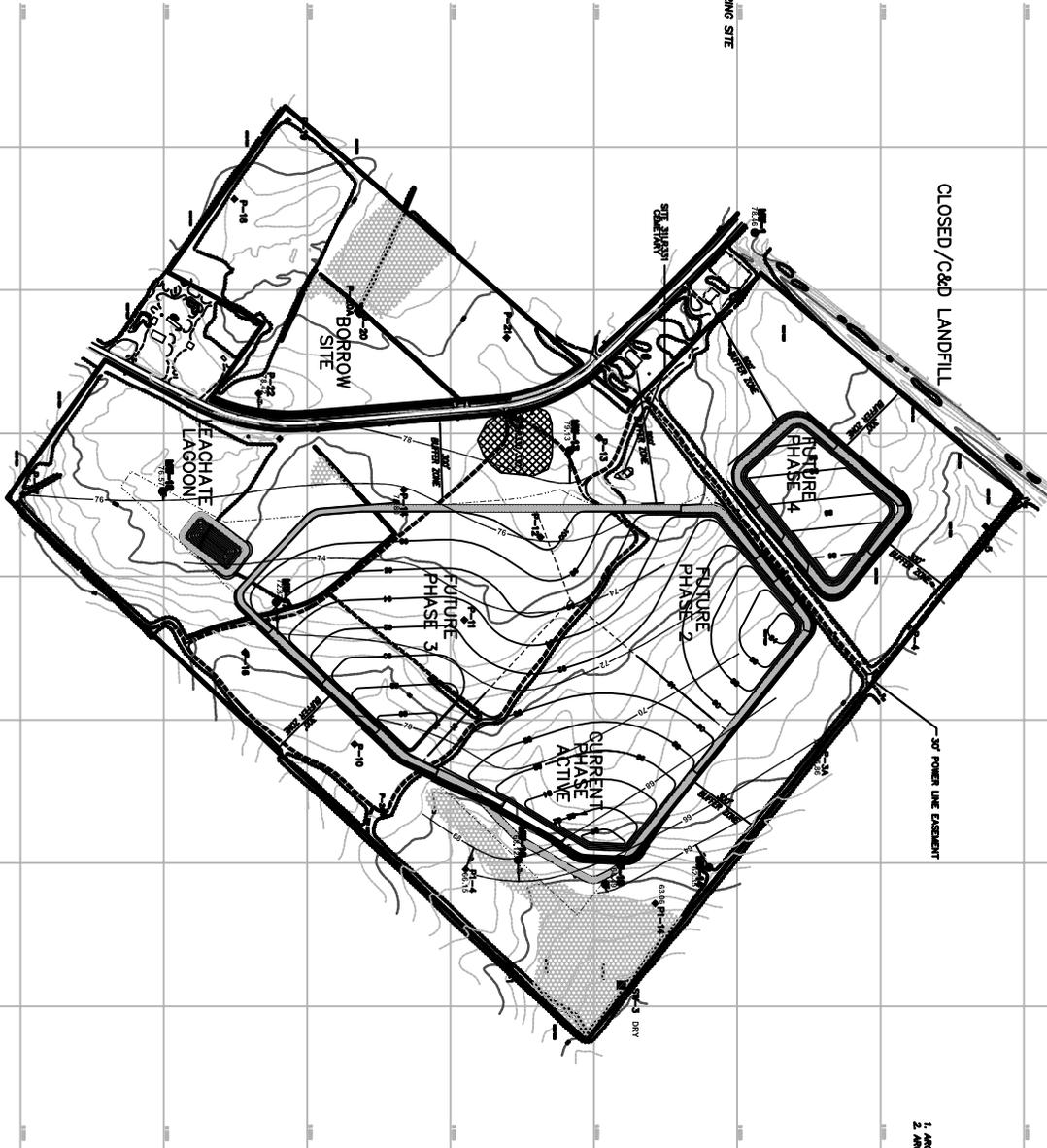
ne = effective porosity

dh = head difference

dl = horizontal distance

**LEGEND**

- EXISTING CONTOURS
- PROPOSED BASE GRADE
- PROPERTY LINE
- EXISTING PATH
- BUFFER ZONE
- PHASES OF OPERATION
- EXISTING PEZKOMETER
- ARCHAEOLOGICAL SITES
- WETLANDS
- MONITORING WELL
- SURFACE WATER MONITORING SITE



- NOTES**
1. ARCHAEOLOGICAL SITE SURVEY (CONTRACT) WILL NOT BE DISTURBED.
  2. ARCHAEOLOGICAL SITE SURVEY WILL BE DISTURBED.

NO.	DATE	BY	DESCRIPTION
1	10/10/00	...	...
2	10/10/00	...	...
3	10/10/00	...	...
4	10/10/00	...	...
5	10/10/00	...	...
6	10/10/00	...	...
7	10/10/00	...	...
8	10/10/00	...	...
9	10/10/00	...	...
10	10/10/00	...	...
11	10/10/00	...	...
12	10/10/00	...	...
13	10/10/00	...	...
14	10/10/00	...	...
15	10/10/00	...	...
16	10/10/00	...	...
17	10/10/00	...	...
18	10/10/00	...	...
19	10/10/00	...	...
20	10/10/00	...	...
21	10/10/00	...	...
22	10/10/00	...	...
23	10/10/00	...	...
24	10/10/00	...	...
25	10/10/00	...	...
26	10/10/00	...	...
27	10/10/00	...	...
28	10/10/00	...	...
29	10/10/00	...	...
30	10/10/00	...	...

**SINGLE DAY POTENTIOMETRIC MAP**

**SUBTITLE D LINED MSW LANDFILL FACILITY  
LENOIR COUNTY  
NORTH CAROLINA**

Municipal Services  Engineering Company, P.A.

## Laboratory Results

# Environment 1, Incorporated

Drinking Water ID: 37713  
Wastewater ID: 10

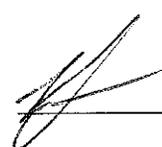
P.O. BOX 7085, 114 OAKMONT DRIVE  
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208  
FAX (252) 756-0633

ID#: 6053

LENOIR CO. LANDFILL (NEW)  
COUNTY OF LENOIR  
MR. TOM MILLER  
P.O. BOX 756  
KINSTON ,NC 28502

DATE COLLECTED: 01/28/09  
DATE REPORTED : 03/02/09

REVIEWED BY: 

PARAMETERS	MDL	SWSL	SW-3	MW-13	MW-14	MW-15	MW-16	Analysis		Method Code
								Date	Analyst	
PH (field measurement), Units			Missing	4.1	4.6	4.4	4.7	01/28/09	RJH	SM4500HB
Antimony, ug/l	0.08	6.0	Missing	0.1 J	--- U	--- U	--- U	02/06/09	CMF	EPA200.8
Arsenic, ug/l	0.07	10.0	Missing	8.9 J	--- U	0.2 J	--- U	02/06/09	CMF	EPA200.8
Barium, ug/l	0.11	100.0	Missing	267	20.9 J	34.2 J	13.2 J	02/06/09	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	Missing	2	0.1 J	--- U	0.1 J	02/06/09	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0	Missing	0.4 J	--- U	--- U	--- U	02/06/09	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	Missing	2.4 J	0.5 J	1.0 J	0.3 J	02/06/09	CMF	EPA200.8
Copper, ug/l	0.05	10.0	Missing	6.1 J	0.6 J	1.2 J	0.4 J	02/06/09	CMF	EPA200.8
Total Chromium, ug/l	0.11	10.0	Missing	28	0.9 J	0.2 J	--- U	02/06/09	CMF	EPA200.8
Lead, ug/l	0.04	10.0	Missing	44	1.2 J	0.1 J	0.1 J	02/06/09	CMF	EPA200.8
Nickel, ug/l	0.06	50.0	Missing	3.6 J	0.4 J	0.8 J	0.2 J	02/06/09	CMF	EPA200.8
Selenium, ug/l	0.14	10.0	Missing	0.6 J	--- U	--- U	--- U	02/06/09	CMF	EPA200.8
Silver, ug/l	0.04	10.0	Missing	0.1 J	--- U	0.1 J	0.1 J	02/06/09	CMF	EPA200.8
Thallium, ug/l	0.04	5.0	Missing	0.3 J	--- U	--- U	0.2 J	02/06/09	CMF	EPA200.8
Vanadium, ug/l	0.07	25.0	Missing	55	1.1 J	0.2 J	0.2 J	02/06/09	CMF	EPA200.8
Zinc, ug/l	0.04	10.0	Missing	35	0.7 J	0.9 J	0.4 J	02/06/09	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	Missing	118	39	168	30	01/28/09	RJH	SM2510B
Temperature, °C			Missing	20	17	14	15	01/28/09	RJH	SM2550B
Static Water Level, feet				28.60	12.55	7.15	8.24	01/28/09	RJH	
Well Depth, feet				31.59	23.56	18.26	24.11	01/28/09	RJH	

# Environment 1, Incorporated

Drinking Water ID: 37713  
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE  
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208  
FAX (252) 756-0633

ID#: 6053

LENOIR CO. LANDFILL (NEW)  
COUNTY OF LENOIR  
MR. TOM MILLER  
P.O. BOX 756  
KINSTON ,NC 28502

DATE COLLECTED: 01/28/09  
DATE REPORTED : 03/02/09

REVIEWED BY: 

PARAMETERS	MDL	SWSL	MW-17	MW-18	Piezometer #22	Piezometer #1-4	Piezometer #1-14	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.0	4.4				01/28/09	RJH	SM4500HB
Antimony, ug/l	0.08	6.0	0.1 J	---	U			02/06/09	CMF	EPA200.8
Arsenic, ug/l	0.07	10.0	7.6 J	1.0 J				02/06/09	CMF	EPA200.8
Barium, ug/l	0.11	100.0	146	47.5 J				02/06/09	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	0.9 J	0.2 J				02/06/09	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0	0.2 J	0.1 J				02/06/09	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	2.1 J	0.9 J				02/06/09	CMF	EPA200.8
Copper, ug/l	0.05	10.0	2.6 J	0.9 J				02/06/09	CMF	EPA200.8
Total Chromium, ug/l	0.11	10.0	15	3.5 J				02/06/09	CMF	EPA200.8
Lead, ug/l	0.04	10.0	16	3.0 J				02/06/09	CMF	EPA200.8
Nickel, ug/l	0.06	50.0	1.9 J	1.0 J				02/06/09	CMF	EPA200.8
Selenium, ug/l	0.14	10.0	0.4 J	---	U			02/06/09	CMF	EPA200.8
Silver, ug/l	0.04	10.0	---	---	U			02/06/09	CMF	EPA200.8
Thallium, ug/l	0.04	5.0	0.1 J	---	U			02/06/09	CMF	EPA200.8
Vanadium, ug/l	0.07	25.0	30	7.5 J				02/06/09	CMF	EPA200.8
Zinc, ug/l	0.04	10.0	17	4.8 J				02/06/09	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	161	57				01/28/09	RJH	SM2510B
Temperature, °C			19	18				01/28/09	RJH	SM2550B
Static Water Level, feet			28.24	30.17	31.98	12.65	6.16	01/28/09	RJH	
Well Depth, feet			30.91	33.99				01/28/09	RJH	

# Environment 1, Incorporated

Drinking Water ID: 3715  
Wastewater ID: 10

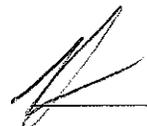
P.O. BOX 7085, 114 OAKMONT DRIVE  
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208  
FAX (252) 756-0633

ID#: 6053

LENOIR CO. LANDFILL (NEW)  
COUNTY OF LENOIR  
MR. TOM MILLER  
P.O. BOX 756  
KINSTON ,NC 28502

DATE COLLECTED: 01/28/09  
DATE REPORTED : 03/02/09

REVIEWED BY: 

PARAMETERS	MDL	Piezometer SWSL	Piezometer #14	Piezometer #3A	Pizeometer #16	Piezometer #17	Analysis Date	Method Analyst	Code
Static Water Level, feet			28.27	16.33	Missing	14.54	01/28/09	RJH	

# Environment 1, Incorporated

Drinking Water ID: 37115  
Wastewater ID: 10

PO. BOX 7085, 114 OAKMONT DRIVE  
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208  
FAX (252) 756-0633

CLIENT: LENOIR CO. LANDFILL (NEW)  
COUNTY OF LENOIR  
MR. TOM MILLER  
P.O. BOX 756  
KINSTON, NC 28502

CLIENT ID: 6053  
ANALYST: MAO  
DATE COLLECTED: 01/28/09  
DATE REPORTED: 03/02/09

Page: 1

REVIEWED BY: \_\_\_\_\_

## VOLATILE ORGANICS EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed:		02/09/09	02/09/09	02/09/09	02/10/09	02/10/09	
	MDL	SWSL	MW-13	MW-14	MW-15	MW-16	MW-17	
1. Chloromethane	0.18	1.0	---	U	---	U	---	U
2. Vinyl Chloride	0.34	1.0	---	U	---	U	---	U
3. Bromomethane	0.26	10.0	---	U	---	U	---	U
4. Chloroethane	0.29	10.0	---	U	---	U	---	U
5. Trichlorofluoromethane	0.13	1.0	---	U	---	U	---	U
6. 1,1-Dichloroethene	0.14	5.0	---	U	---	U	---	U
7. Acetone	1.21	100.0	---	U	---	U	---	U
8. Iodomethane	0.12	10.0	---	U	---	U	---	U
9. Carbon Disulfide	0.14	100.0	---	U	---	U	---	U
10. Methylene Chloride	0.14	1.0	---	U	---	U	---	U
11. trans-1,2-Dichloroethene	0.13	5.0	---	U	---	U	---	U
12. 1,1-Dichloroethane	0.16	5.0	---	U	---	U	---	U
13. Vinyl Acetate	0.20	50.0	---	U	---	U	---	U
14. Cis-1,2-Dichloroethene	0.14	5.0	---	U	---	U	---	U
15. 2-Butanone	0.85	100.0	---	U	---	U	---	U
16. Bromochloromethane	0.11	3.0	---	U	---	U	---	U
17. Chloroform	0.13	5.0	---	U	---	U	---	U
18. 1,1,1-Trichloroethane	0.11	1.0	---	U	---	U	---	U
19. Carbon Tetrachloride	0.13	1.0	---	U	---	U	---	U
20. Benzene	0.16	1.0	---	U	---	U	---	U
21. 1,2-Dichloroethane	0.12	1.0	---	U	---	U	---	U
22. Trichloroethene	0.13	1.0	---	U	---	U	---	U
23. 1,2-Dichloropropane	0.17	1.0	---	U	---	U	---	U
24. Bromodichloromethane	0.13	1.0	---	U	---	U	---	U
25. Cis-1,3-Dichloropropene	0.17	1.0	---	U	---	U	---	U
26. 4-Methyl-2-Pentanone	0.68	100.0	---	U	---	U	---	U
27. Toluene	0.13	1.0	---	U	---	U	---	U
28. trans-1,3-Dichloropropene	0.14	1.0	---	U	---	U	---	U
29. 1,1,2-Trichloroethane	0.20	1.0	---	U	---	U	---	U
30. Tetrachloroethene	0.16	1.0	---	U	---	U	---	U
31. 2-Hexanone	1.00	50.0	---	U	---	U	---	U
32. Dibromochloromethane	0.14	3.0	---	U	---	U	---	U
33. 1,2-Dibromoethane	0.13	1.0	---	U	---	U	---	U
34. Chlorobenzene	0.13	3.0	---	U	---	U	---	U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	---	U	---	U	---	U
36. Ethylbenzene	0.16	1.0	---	U	---	U	---	U
37. Xylenes	0.48	5.0	---	U	---	U	---	U
38. Dibromomethane	0.17	10.0	---	U	---	U	---	U
39. Styrene	0.16	1.0	---	U	---	U	---	U
40. Bromoform	0.11	3.0	---	U	---	U	---	U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	---	U	---	U	---	U
42. 1,2,3-Trichloropropane	0.06	1.0	---	U	---	U	---	U
43. 1,4-Dichlorobenzene	0.21	1.0	---	U	---	U	---	U
44. 1,2-Dichlorobenzene	0.13	5.0	---	U	---	U	---	U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	---	U	---	U	---	U
46. Acrylonitrile	1.49	200.0	---	U	---	U	---	U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	---	U	---	U	---	U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

# Environment 1, Incorporated

Drinking Water ID: 37/15  
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE  
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208  
FAX (252) 756-0633

CLIENT: LENOIR CO. LANDFILL (NEW)  
COUNTY OF LENOIR  
MR. TOM MILLER  
P.O. BOX 756  
KINSTON, NC 28502

CLIENT ID: 6053  
ANALYST: MAO  
DATE COLLECTED: 01/28/09  
DATE REPORTED: 03/02/09

Page: 2

REVIEWED BY: \_\_\_\_\_

## VOLATILE ORGANICS EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed:		02/10/09 MW-18
	MDL	SWSL	
1. Chloromethane	0.18	1.0	--- U
2. Vinyl Chloride	0.34	1.0	--- U
3. Bromomethane	0.26	10.0	--- U
4. Chloroethane	0.29	10.0	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U
7. Acetone	1.21	100.0	--- U
8. Iodomethane	0.12	10.0	--- U
9. Carbon Disulfide	0.14	100.0	--- U
10. Methylene Chloride	0.14	1.0	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U
15. 2-Butanone	0.85	100.0	--- U
16. Bromochloromethane	0.11	3.0	--- U
17. Chloroform	0.13	5.0	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U
20. Benzene	0.16	1.0	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U
22. Trichloroethene	0.13	1.0	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U
24. Bromodichloromethane	0.13	1.0	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U
27. Toluene	0.13	1.0	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U
30. Tetrachloroethene	0.16	1.0	--- U
31. 2-Hexanone	1.00	50.0	--- U
32. Dibromochloromethane	0.14	3.0	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U
34. Chlorobenzene	0.13	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U
36. Ethylbenzene	0.16	1.0	--- U
37. Xylenes	0.48	5.0	--- U
38. Dibromomethane	0.17	10.0	--- U
39. Styrene	0.16	1.0	--- U
40. Bromoform	0.11	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U
46. Acrylonitrile	1.49	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1  
 P.O. Box 7085, 114 Oakmont Dr.  
 Greenville, NC 27858

CHAIN OF CUSTODY RECORD

Phone (252) 756-6208 • Fax (252) 756-0633

CLIENT: 6053 Week: 3

LENOIR CO. LANDFILL (NEW)  
 COUNTY OF LENOIR  
 MR. TOM MILLER  
 P.O. BOX 756  
 KINSTON NC 28502

(252) 566-5408

SAMPLE LOCATION	COLLECTION		TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	DISINFECTION			Field pH	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2	PARAMETERS	CLASSIFICATION:
	DATE	TIME				CHLORINE	UV	NONE										
SW-3					4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
MW-13	01/28/09	1035	20	17	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
MW-14	01/28/09	0950		17	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
MW-15	01/28/09	1000		14	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
MW-16	01/28/09	1010		15	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
MW-17	01/28/09	1030		19	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
MW-18	01/28/09	1025		18	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
Piezometer #22	01/28/09				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
Piezometer #1-4	01/28/09				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
Piezometer #1-14	01/28/09				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
Piezometer #14	01/28/09				1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
REINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)
COMMENTS: SW3 - DRG SAMPLES COLLECTED BY: Hooper / Scot CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY <input checked="" type="checkbox"/> SOLID WASTE SECTION <input type="checkbox"/> WASTEWATER (NPDES) <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> DMQ/GW PARAMETERS: A-NONE, B-HNO <sub>3</sub> , C-H <sub>2</sub> SO <sub>4</sub> , D-NAOH, E-HCL, F-ZINC ACETATE, G-NATHTIOSULFATE																		

Instructions for completing this form are on the reverse side.

CHAIN OF CUSTODY RECORD

Phone (252) 756-6208 • Fax (252) 756-0633

CLIENT: 6053 Week: 3

LENOIR CO. LANDFILL (NEW)  
 COUNTY OF LENOIR  
 MR. TOM MILLER  
 P.O. BOX 756  
 KINSTON NC 28502

(252) 566-5408

SAMPLE LOCATION	COLLECTION		TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	DISINFECTION			Field pH	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2	CHLORINE NEUTRALIZED AT COLLECTION	pH CHECK (LAB)	CONTAINER TYPE, P/G	CHEMICAL PRESERVATION
	DATE	TIME				<input type="checkbox"/> CHLORINE	<input type="checkbox"/> UV	<input type="checkbox"/> NONE												
Piezometer #3A	01/28/09				1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	A	A	A		E	E	E				
Piezometer #16					1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Piezometer #17	02/28/09				1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)
Bob Hogue	01/28/09																			
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

COMMENTS:

P3 16 DRG

SAMPLES COLLECTED BY: (Please Print)  
 Hogue Scot

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY  
 N

SOLID WASTE SECTION

DWQ/GW

DRINKING WATER

WASTEWATER (NPDES)

CLASSIFICATION:

PARAMETERS

- A - NONE
- B - HNO<sub>3</sub>
- C - H<sub>2</sub>SO<sub>4</sub>
- D - NaOH
- E - HCL
- F - ZINC ACETATE
- G - NA THIOSULFATE

# Environment 1, Incorporated

Drinking Water ID: 37715  
Wastewater ID: 10

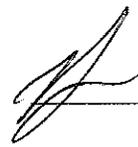
P.O. BOX 7085, 114 OAKMONT DRIVE  
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208  
FAX (252) 756-0633

ID#: 6053 A

LENOIR CO. LANDFILL (NEW)  
COUNTY OF LENOIR  
MR. TOM MILLER  
P.O. BOX 756  
KINSTON ,NC 28502

DATE COLLECTED: 01/23/08  
DATE REPORTED : 02/29/08

REVIEWED BY: 

PARAMETERS	MDL	SWSL	Leachate Analysis		Method Code
			Date	Analyst	
PH (field measurement), Units			7.9	01/23/08 RJH	SM4500HB
BOD, mg/l	2.0	2.0	29	01/23/08 TRB	SM5210B
COD, mg/l	10.0	10.0	481	01/25/08 TRB	HACH8000
Total Suspended Residue, mg/l	1.0	1.0	78	01/23/08 MRJ	SM2540D
Ammonia Nitrogen, mg/l	0.04	0.04	98.90	01/24/08 SSR	EPA350.1
Total Kjeldahl Nitrogen, mg/l			136	01/28/08 TWA	EPA351.2
Nitrate Nitrogen, mg/l	0.03	10.0	---	U 01/25/08 TWA	EPA353.2
Total Phosphorus, mg/l	0.04	0.04	0.08	01/28/08 SSR	EPA365.4
Cyanide, ug/l	5.0	10.0	---	U 01/24/08 SEJ	SM4500 CN-E
Sulfate, mg/l	5.0	250.0	---	U 01/28/08 TRB	SM4500-SO4E
Arsenic, ug/l	0.07	10.0	4.8 J	02/04/08 LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	---	U 02/04/08 LFJ	EPA200.8
Copper, ug/l	0.05	10.0	7.0 J	02/04/08 LFJ	EPA200.8
Total Chromium, ug/l	0.11	10.0	1.7 J	02/04/08 LFJ	EPA200.8
Lead, ug/l	0.04	10.0	0.7 J	02/04/08 LFJ	EPA200.8
Mercury, ug/l	0.01	0.20	---	U 02/04/08 LFJ	EPA200.8
Molybdenum, ug/l	0.24	10	---	U 02/06/08 LFJ	EPA200.7
Nickel, ug/l	1.35	50.0	14.7 J	02/04/08 LFJ	EPA200.8
Selenium, ug/l	0.14	10.0	5.3 J	02/04/08 LFJ	EPA200.8
Silver, ug/l	0.04	10.0	---	U 02/04/08 LFJ	EPA200.8
Zinc, ug/l	1.86	10.0	14	02/04/08 LFJ	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

# Environment 1, Incorporated

Drinking Water ID: 37715  
Wastewater ID: 10

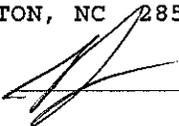
P.O. BOX 7085, 114 OAKMONT DRIVE  
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208  
FAX (252) 756-0633

CLIENT: LENOIR CO. LANDFILL (NEW)  
COUNTY OF LENOIR  
MR. TOM MILLER  
P.O. BOX 756  
KINSTON, NC 28502

CLIENT ID: 6053 A  
ANALYST: MAO  
DATE COLLECTED: 01/23/08  
DATE ANALYZED: 01/31/08  
DATE REPORTED: 02/29/08

Page: 1

REVIEWED BY: 

## VOLATILE ORGANICS EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate
1. Chloromethane	0.18	1.0	--- U
2. Vinyl Chloride	0.34	1.0	--- U
3. Bromomethane	0.26	10.0	--- U
4. Chloroethane	0.29	10.0	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U
7. Acetone	1.21	100.0	12.30 J
8. Iodomethane	0.12	10.0	--- U
9. Carbon Disulfide	0.14	100.0	--- U
10. Methylene Chloride	0.14	1.0	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U
13. Vinyl Acetate	0.20	5.0	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U
15. 2-Butanone	0.85	100.0	3.00 J
16. Bromochloromethane	0.11	3.0	--- U
17. Chloroform	0.13	5.0	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U
20. Benzene	0.16	1.0	0.50 J
21. 1,2-Dichloroethane	0.12	1.0	--- U
22. Trichloroethene	0.13	1.0	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U
24. Bromodichloromethane	0.13	1.0	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	1.10 J
27. Toluene	0.13	1.0	0.20 J
28. trans-1,3-Dichloropropene	0.14	1.0	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U
30. Tetrachloroethene	0.16	1.0	--- U
31. 2-Hexanone	1.00	50.0	--- U
32. Dibromochloromethane	0.14	3.0	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U
34. Chlorobenzene	0.13	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U
36. Ethylbenzene	0.16	1.0	--- U
37. Xylenes	0.48	5.0	--- U
38. Dibromomethane	0.17	10.0	--- U
39. Styrene	0.16	1.0	--- U
40. Bromoform	0.11	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U
46. Acrylonitrile	1.49	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.



