Semi-Annual Water Quality Monitoring Report

Prepared for

Lenoir County Subtitle D Lined MSWLF
LaGrange, North Carolina

January 2012

Permit Number: 54-09
MESCO Project Number: G11029.0

Submitted on June 11, 2012

P.O. Box 97
Garner, NC 27529
License No. C-0281

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

DENR USE ONLY: ☐Paper Report ☐Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

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):

Municipal Engineering Services Co., PA

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 26 & 31, 2012

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.

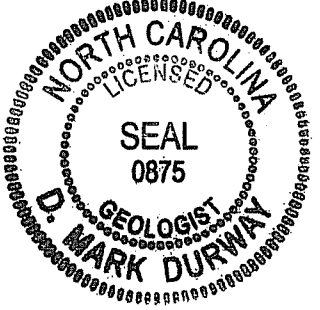
D. Mark Durway, L.G. | Geologist | (919) 772-5393

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

D. Mark Durway 6/11/12

Signature | Date

Affix NC Licensed/ Professional Geologist Seal



P.O. Box 97, Garner, NC 27529

Facility Representative Address

C-0281

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

Revised 6/2009

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License No. C-0281

CIVIL/SANITARY/ENVIRONMENTAL ENGINEERS

Municipal Services

SITE PLANNING/SUBDIVISIONS

SOLID WASTE MANAGEMENT

Engineering Company, P.A.

SUBSURFACE UTILITY ENGINEERING (SUE)

June 11, 2012

Ms. Jaclynne Drummond
Solid Waste Section
NC DENR Division of Waste Management
217 West Jones Street
Raleigh, NC 27605

Re: Semi-Annual Water Quality Monitoring Report
Lenoir County Subtitle D Lined Landfill, Phase 1
Permit No. 54-09
MESCO Project No. G11029.0

Dear Ms. Drummond:

Introduction

The Lenoir County Subtitle D Lined MSWLF in LaGrange, while not currently accepting waste, is required to submit semi-annual detection monitoring reports as a condition of its permit, 54-09. Environment 1 (E1) of Greenville, NC performed this sampling event on January 26 and 31, 2012 in accordance with the semi-annual monitoring schedule prescribed by the NC Solid Waste Section (SWS) rules/regulations as promulgated in rule 15A NCAC 13B.1600. A topographic map showing the facility and vicinity is included as **Figure 1**.

As specified in rule 15A NCAC 13B.1632(i) and the SWS Environmental Monitoring Report Form, this report contains sampling procedures, field and laboratory results, groundwater and surface water characterization, and findings. Detections compared to Standards tables, hydrologic properties table, a potentiometric map, and field and laboratory analytical results with chains of custody (C-O-C) are enclosed.

Sampling Procedure

E1 reportedly performed this sampling event utilizing portable monitoring methodology in accordance with the approved Sampling & Analysis Plan (SAP) contained in the Lenoir County Landfill, Phase 1 *Design Hydrogeologic Study* dated August 19, 2002. E1 reportedly collected water samples from four downgradient groundwater monitoring wells (MW-14 through MW-17), two background wells (MW-13 and MW-18), and the the leachate lagoon (LAGOON). Quality control measures implemented during this event included submittal and analysis of a trip blank (TB) and equipment blank (EB). Additional static water level readings were recorded from eleven supplementary piezometers (P-3A, P1-4, P1-14, P-14, P-17, P-22, P2-4, P2-9, P2-10, MW-19S and MW-19D) to improve potentiometric map coverage. Surface water sample point SW-3 was dry. Monitoring locations are shown in **Figure 2**.

Field Parameter Data

E1 reported the field parameters [pH, static water levels, specific conductance, temperature, turbidity, oxidation reduction potential (ORP) and dissolved oxygen (DO)] in the laboratory analysis report (**Appendix A)**.

Laboratory Results

Groundwater monitoring wells contained in the SAP and EB were analyzed for the Appendix I list of volatile organic compounds (VOCs) and total unfiltered metals as listed in CFR Part 258. TB was analyzed for the Appendix I list of VOCs. The lined leachate lagoon (LAGOON) samples were tested for the SWS required leachate specific parameters (Appendix I VOCs and metals, nitrate, phosphorus, chemical oxygen demand, biological oxygen demand, pH, and sulfate). E1 documentation indicates samples were transported under C-O-C protocols and analyzed within the specified hold times for each method. Water samples were analyzed to the laboratory-established Method Detection Limits (MDL), which are at or below the current Solid Waste Section Limits (SWSL). A sampling and analysis table summarizing the locations, target parameters and laboratory methods is presented as **Table 1**. Laboratory results and COC are presented in **Appendix A**.

Quality Control Samples

Constituents were not reported in quantifiable concentrations in either TB or EB. Therefore, it appears that the data set's validity is likely not effected by false positives or high bias attributed to field or laboratory artifact contamination.

Groundwater Samples

The only constituent detected in a concentration exceeding the 2L Standard was total chromium in upgradient background well MW-13. VOCs continue to be absent from groundwater samples. Constituents detected in groundwater samples that attain or are above the current SWSL, Groundwater Protection Standards (GWP) or North Carolina Groundwater Standards (2L) are summarized in **Table 2**.

Surface Water Samples

Surface water monitoring point SW-3 was dry; thus, no surface water information was reported for this event.

Leachate Samples

Total zinc was the only Appendix I constituent detected in a quantifiable concentration in the leachate sample (LAGOON) as summarized in **Table 3**.

Groundwater and Surface Water Characterization

A single-day potentiometric map of the surficial aquifer created from groundwater elevation data collected on January 26, 2012 is presented as **Figure 2.** Groundwater flow rates and directions were calculated based on this data and are included in **Table 4.** Groundwater flow was in a general northeasterly direction towards the designated wetlands and rates calculated by modified Darcy's equation ranged from approximately 6 feet/year (MW-18) to 381 feet/year (MW-14) averaging approximately 156 feet/year. Surface water sampling location SW-3 has reportedly been dry during each monitoring event since July 2007. Flow directions and gradients are generally consistent with historical observations.

Findings

Laboratory data results continue to indicate that groundwater around the MSWLF and leachate lagoon remain unimpacted.

Closing

Detection monitoring will continue and the next semi-annual sampling event is tentatively scheduled for July 2012. Please contact us by phone at (919) 772-5393 or by email at jpfohl@mesco.com or mdurway@mesco.com if you have any questions or comments.

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

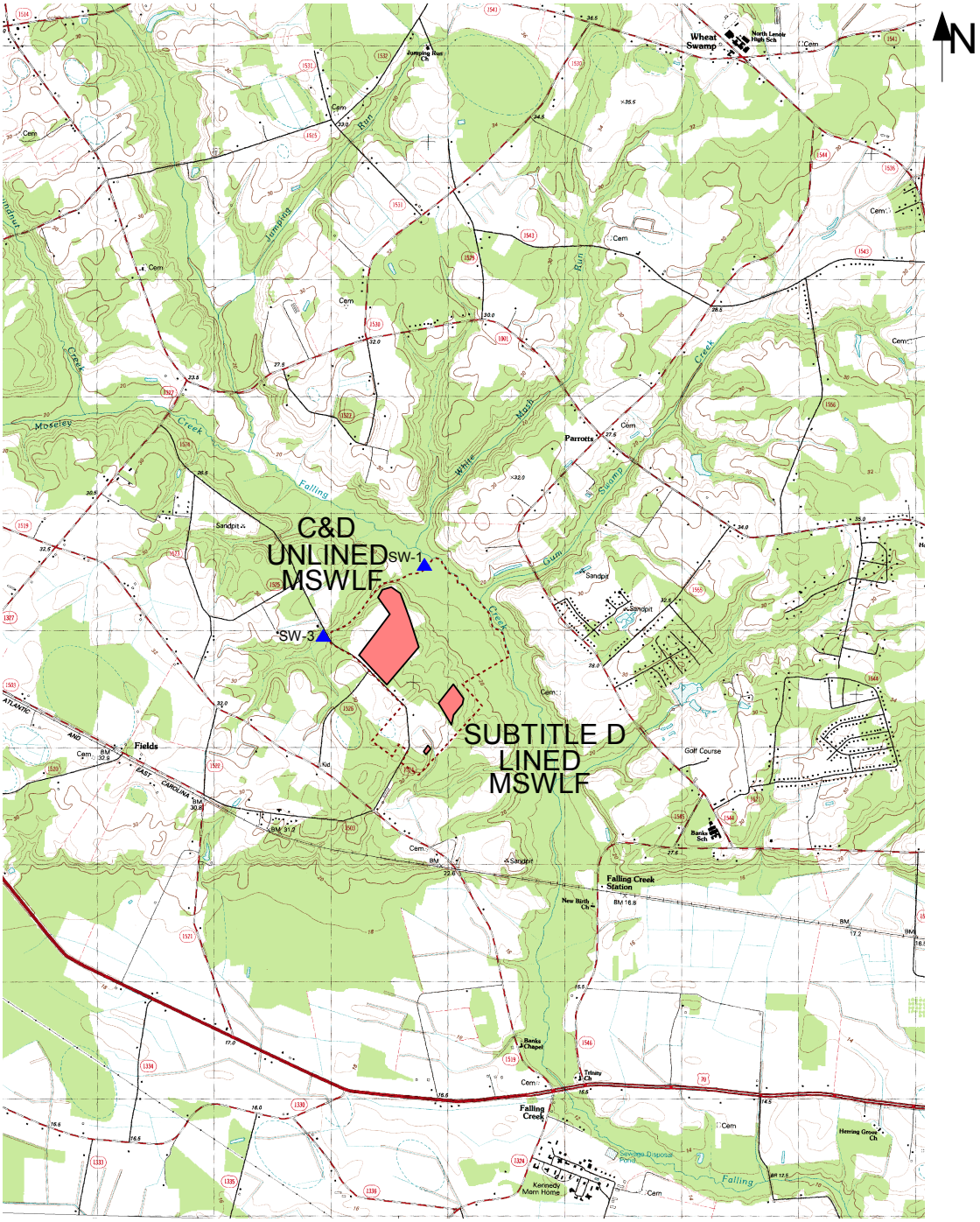
Jonathan Pfohl
Environmental Specialist

D. Mark Durway, L.G.
Geologist

Enclosures
cc: Mr. Tom Miller
Lenoir County

Figures

Topographic Map with Site Location
Lenoir County Landfill Facility



2949 Hodges Farm Rd (SR1524)
LaGrange, NC 28501
Lat:35-17-07.4269
Long:-77-42-32.7453
Northing:561295.59
Easting:2385220.32

QUADRANGLE LEGEND

ROAD CLASSIFICATION

Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road

Interstate Route U. S. Route State Route

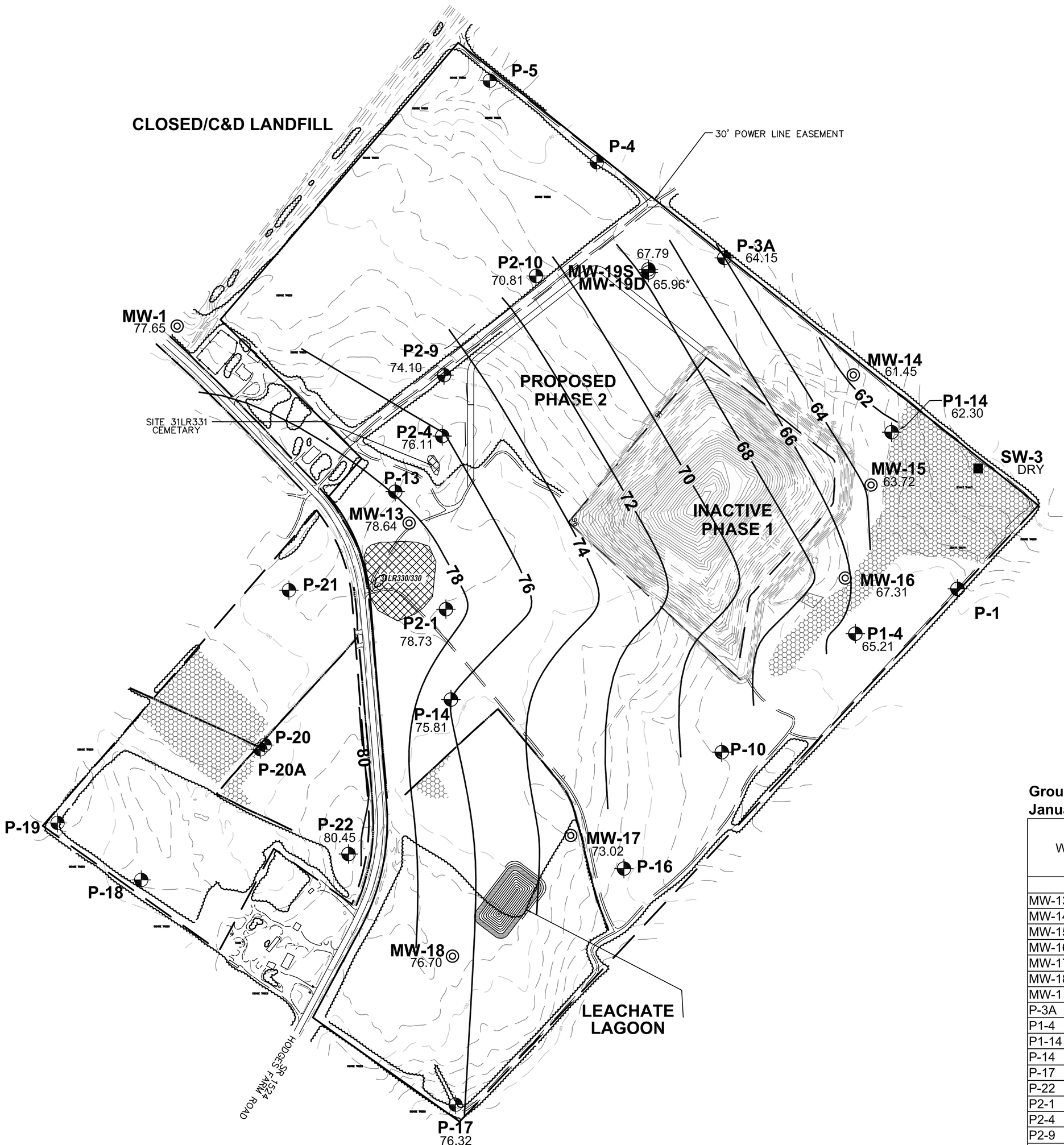
FIGURE 1

LEGEND

- EXISTING TOPOGRAPHIC CONTOURS
- PROPERTY LINE
- EXISITING PATH
- WASTE/LINER LIMITS
- P-11 — EXISTING PIEZOMETER
- REF # — ARCHAEOLOGICAL SITES
- WETLANDS
- MW-1 — MONITORING WELL
- SW-3 — SURFACE WATER MONITORING LOCATION
- —66— — EQUIPOTENTIAL GROUNDWATER CONTOURS
- 64.15 — GROUNDWATER ELEVATION (FT AMSL)

NOTES

1. ARCHAEOLOGICAL SITE 31LR331 (CEMETERY) WILL NOT BE DISTURBED.
2. ARCHAEOLOGICAL SITE 31LR330 WILL BE DISTURBED.



Groundwater Levels & VOCs Detected Above 2L Standards
January 26, 2012

WELL #	TOP OF CASING ELEVATION (FT AMSL)	DEPTH TO WATER (FT BTOC)	GROUNDWATER POTENTIOMETRIC ELEVATION (FT AMSL)	NONE (UG/L)
15A NCAC 2L Groundwater Quality Standard				-
MW-13	107.81	29.17	78.64	
MW-14	74.81	13.45	61.36	
MW-15	71.64	7.92	63.72	
MW-16	76.36	9.05	67.31	
MW-17	101.06	28.04	73.02	
MW-18	106.74	30.04	76.70	
MW-1	98.34	20.69	77.65	
P-3A	82.19	18.04	64.15	NS
P1-4	78.80	13.59	65.21	NS
P1-14	69.22	6.92	62.30	NS
P-14	104.07	28.26	75.81	NS
P-17	90.57	14.25	76.32	NS
P-22	110.40	29.95	80.45	NS
P2-1	104.98	26.25	78.73	NS
P2-4	107.62	31.51	76.11	NS
P2-9	101.95	27.85	74.10	NS
P2-10	88.14	17.33	70.81	NS
MW-19S	85.76	17.97	67.79	NS
MW-19D	85.87	19.91	65.96*	NS

All data collected by Environment I Incorporated
* = Not used for countouring
NS = Not sampled

FIGURE 2

Municipal Engineering Services Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
LICENSE NUMBER: C-0281

SUBTITLE D LINED MSW LANDFILL FACILITY
LENOIR COUNTY NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

POTENTIOMETRIC MAP OF UPPERMOST AQUIFER w/ VOCS DETECTED ABOVE 2L STANDARD

SCALE:	1"=200'
DATE:	5/5/12
DRWN. BY:	J PFOHL
CHKD. BY:	M. DURWAY
PROJECT NUMBER	G11029.0
DRAWING NO.	FIGURE 2
SHEET NO.	1 OF 1

Tables

Table 1
Sampling and Analysis Summary
January 26, 2012

		App. I		Field Parameter					Leachate					
	Reason Not Sampled	VOCs	Total Metals	Dissolved Oxygen (DO)	Oxidation Reduction Potential (ORP)	Temperature	Conductivity	pH	Sulfate	pH	Phosphorus	BOD, 5 day	COD	Nitrate
		Lab EPA 8260B	Lab EPA200.8	SM4500OG	SM2580B	SM2550B	SM2510B	SM4500HB	SM426C	Lab SM4500HB	Lab EPA365.4	Lab SM5210B	Lab HACH8000	Lab EPA 353.2
MW-13		x	x	x	x	x	x	x						
MW-14		x	x	x	x	x	x	x						
MW-15		x	x	x	x	x	x	x						
MW-16		x	x	x	x	x	x	x						
MW-17		x	x	x	x	x	x	x						
MW-18		x	x	x	x	x	x	x						
SW-3	Dry													
LAGOON		x	x	x	x	x	x	x	x	x	x	x	x	x
EB		x	x											
TB		x												

App I = List from current 40 CFR 258

Table 2
Detections in Water Samples above SWSL, GWP, 2L, or 2B (Appendix I)
January 26, 2012

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause [7]
MW-13	Barium, Total	1/26/12	136	ug/l	0.02	100	700				
MW-13	Lead, Total	1/26/12	13	ug/l	0.02	10	15				
MW-13	**Chromium, Total**	**1/26/12**	**15**	**ug/l**	**0.04**	**5**	**10**			**5**	**B,N**
MW-13	Zinc, Total	1/26/12	17	ug/l	0.24	10	1050				
MW-17	Zinc, Total	1/26/12	12	ug/l	0.24	10	1050				
MW-17	Vanadium, Total	1/26/12	18 j	ug/l	0.14	25			3.5	14.5	
MW-17	Barium, Total	1/26/12	135	ug/l	0.02	100	700				

[1] Table contains Appendix I constituents detected above SWSL, GWP, 2L, or 2B

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

[4] 2L = North Carolina 15A NCAC 2L Groundwater Quality Standard

[5] 2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for this Specific Stream Classification

[6] GWP = Groundwater Protection Standard

[7] Preliminary Cause = Refers to a preliminary analysis of the cause and/or source of a detection over the respective 2L/2B Standard.
A definitive source of the detection was not determined as part of this report.

j =The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable

N = Natural from erosion of natural deposits

B = Background as detected in samples collected upgradient/upstream of waste

BOLD = Concentration > 2L, or 2B Standard

Table 3
Detections in Leachate Samples above SWSL, GWP, 2L, or 2B
January 31, 2012

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance
LAGOON	COD	1/31/2012	36000	ug/l	20000	20000	NE		NE	
LAGOON	PH (field)	1/31/2012	8.24	SU			NE		NE	
LAGOON	Zinc, Total	1/31/2012	14	ug/l	0.24	10	1050			
LAGOON	BOD	1/31/2012	3700	ug/l	2000	2000	NE		NE	

[1] Table contains only constituents detected above SWSL, GWP, 2L, or 2B

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

[4] 2L = North Carolina 15A NCAC 2L Groundwater Qualtity Standard

[5] 2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for this Specific Stream Classification

[6] GWP = Groundwater Protection Standard (Current as of Sampling Event)

j =The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.

NE = Not Established

BOLD = Concentration > 2L, or 2B Standard

Table 4
Hydrologic Properties at Monitoring Well Locations
January 26, 2012

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient (ft/ft)	Groundwater Velocity Rate (ft/yr)	Flow Direction	Depth To Water (ft btoc)	Water Table Elevation (ft amsl)	Screened Interval Lithology
MW-13	7.69E-05	23	0.020	7	N46E	29.17	78.64	Silty Sand
MW-14	3.38E-03	23	0.025	381	N54E	13.45	61.36	Silty Sand
MW-15	2.89E-03	23	0.013	169	N71E	7.92	63.72	Silty Sand
MW-16	9.72E-04	23	0.074	325	N85E	9.05	67.31	Silty Sand
MW-17	1.13E-03	23	0.009	48	N85E	28.04	73.02	Silty Sand
MW-18	1.25E-04	23	0.010	6	S86E	30.04	76.70	Silty Clayey Sand
Minimum	7.69E-05	23	0.01	6	-	7.92	61.36	-
Average	1.43E-03	23	0.03	156	-	19.61	70.13	-
Maximum	3.38E-03	23	0.07	381	-	30.04	78.64	-

NOTE: 1.Hydraulic conductivity (K) values based on slug test results, performed by MESCO in December 2005.
2. Effective Porosity (ne) values obtained from the MESCO Ph. 1 design hydrogeologic report completed in August 2002.
3.Static water levels recorded by Environment 1, Inc. on January 26, 2012.
Linear velocity rate (Q) is defined by modified Darcy's equation:

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

K = hydraulic conductivity
ne = effective porosity
dh = head difference
dl = horizontal distance

Appendix A
Laboratory Analysis Reports
Chains of Custody

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

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

DATE COLLECTED: 01/26/12
DATE REPORTED : 02/07/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-13	MW-14	MW-15	MW-16	MW-17	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.3	4.6	4.5	4.9	4.1	01/26/12	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	--- U	--- U	--- U	--- U	0.22 J	02/03/12	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	5.4 J	--- U	0.48 J	0.31 J	5.6 J	02/03/12	CMF	EPA200.8
Barium, ug/l	0.02	100.0	136	24.9 J	52.9 J	20.3 J	135	02/03/12	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.75 J	0.06 J	0.07 J	0.08 J	0.58 J	02/03/12	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.14 J	--- U	0.07 J	0.09 J	0.18 J	02/03/12	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	1.6 J	0.53 J	1.1 J	0.44 J	1.8 J	02/03/12	CMF	EPA200.8
Copper, ug/l	0.02	10.0	3.4 J	0.49 J	1.1 J	0.81 J	1.9 J	02/03/12	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	15	0.86 J	1.8 J	1.3 J	9.3 J	02/03/12	CMF	EPA200.8
Lead, ug/l	0.02	10.0	13	0.90 J	1.4 J	0.55 J	8.6 J	02/03/12	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	1.9 J	0.32 J	0.90 J	0.51 J	1.4 J	02/03/12	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	0.25 J	--- U	--- U	--- U	0.73 J	02/03/12	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U	--- U	--- U	02/03/12	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	0.10 J	--- U	0.04 J	--- U	0.04 J	02/03/12	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	30	0.84 J	3.1 J	2.4 J	18.0 J	02/03/12	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	17	1.6 J	2.9 J	4.7 J	12	02/03/12	CMF	EPA200.8
Conductivity (at 25c), uMhos/cm	1.0	1.0	89	72	178	63	195	01/26/12	RJH	SM2510B
Temperature, °C			20	18	16	17	20	01/26/12	RJH	SM2550B
Static Water Level, feet			29.17	13.45	7.92	9.05	28.04	01/26/12	RJH	
Well Depth, feet			31.59	23.56	18.26	34.11	30.91	01/26/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation 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

ID#: 6053

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

DATE COLLECTED: 01/26/12
DATE REPORTED : 02/07/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-18	SW-3	Equipment Blank	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.7	Missing			01/26/12	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	0.56 J	Missing	--- U		02/03/12	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	0.21 J	Missing	--- U		02/03/12	CMF	EPA200.8
Barium, ug/l	0.02	100.0	21.4 J	Missing	0.11 J		02/03/12	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.10 J	Missing	--- U		02/03/12	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.16 J	Missing	--- U		02/03/12	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	0.45 J	Missing	--- U		02/03/12	CMF	EPA200.8
Copper, ug/l	0.02	10.0	2.3 J	Missing	0.09 J		02/03/12	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	1.4 J	Missing	--- U		02/03/12	CMF	EPA200.8
Lead, ug/l	0.02	10.0	1.1 J	Missing	0.04 J		02/03/12	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	0.32 J	Missing	--- U		02/03/12	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	--- U	Missing	--- U		02/03/12	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	Missing	--- U		02/03/12	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	Missing	--- U		02/03/12	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	2.6 J	Missing	--- U		02/03/12	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	5.1 J	Missing	0.96 J		02/03/12	CMF	EPA200.8
Turbidity, NTU	0.24	10.0		Missing					
Conductivity (at 25c), uMhos/cm	1.0	1.0	37	Missing			01/26/12	RJH	SM2510B
Temperature, °C			19	Missing			01/26/12	RJH	SM2550B
Static Water Level, feet			30.04				01/26/12	RJH	
Well Depth, feet			33.99				01/26/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation 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

ANALYST: MAO
DATE COLLECTED: 01/26/12
DATE REPORTED: 02/07/12

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	01/26/12 MW-13	01/27/12 MW-14	01/27/12 MW-15	01/27/12 MW-16	01/27/12 MW-17
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation 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

ANALYST: MAO
DATE COLLECTED: 01/26/12
DATE REPORTED: 02/07/12

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	01/27/12 MW-18	01/27/12 Equipment Blank	01/31/12 Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U

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

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

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

CHAIN OF CUSTODY RECORD

CLIENT: 6053 **Week:** 5

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

(252) 566-4194

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
						P	P	P	P	P		G	G	G
						A	A	A	A	A		E	E	E
MW-13	01 26 12	1130		20	5	☒	☒	☒	☒	☒	☒	☒	☒	☒
MW-14	01 26 12	1140		18	4	☒	☒	☒	☒	☒	☒	☒	☒	
MW-15	01 26 12	1135		16	4	☒	☒	☒	☒	☒	☒	☒	☒	
MW-16	01 26 12	1110		17	4	☒	☒	☒	☒	☒	☒	☒	☒	
MW-17	01 26 12	1120		20	4	☒	☒	☒	☒	☒	☒	☒	☒	
MW-18	01 26 12	1115		19	4	☒	☒	☒	☒	☒	☒	☒	☒	
SW-3	01 26 12				4	☒	☒	☒	☒	☒		☒	☒	
Equipment Blank	01 26 12				3		☒					☒	☒	
Trip Blank					2							☒	☒	

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB) — 12 — 12 12

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY (Y) N

SAMPLES COLLECTED BY: (Please Print) H Gore fx

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
H Gore	01 26 12		
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
			1/26/12 1419
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:
SW3 DRY

PLEASE READ Instructions for completing this form 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.

FORM #5

№ 236048

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: 01/31/12
DATE REPORTED : 02/16/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	Lagoon	Analysis Date	Analyst	Method Code
PH (field measurement), Units			8.24	01/31/12	RJH	SM4500HB
BOD, mg/l	2.0	2.0	3.7	01/31/12	TRB	SM5210B
COD, mg/l	20.0	20.0	36	02/02/12	TRB	HACH8000
Nitrate Nitrogen as N, mg/l	0.03	10.0	0.06 J	02/01/12	BJC	EPA353.2
Total Phosphorus as P, mg/l	0.04	0.04	--- U	02/02/12	SEJ	EPA365.4
Sulfate, mg/l	5.0	250.0	--- U	02/03/12	TRB	SM426C
Antimony, ug/l	0.14	6.0	--- U	02/14/12	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	0.71 J	02/14/12	CMF	EPA200.8
Barium, ug/l	0.02	100.0	53.0 J	02/14/12	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	--- U	02/14/12	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	--- U	02/14/12	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	0.09 J	02/14/12	CMF	EPA200.8
Copper, ug/l	0.02	10.0	3.3 J	02/14/12	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	--- U	02/14/12	CMF	EPA200.8
Lead, ug/l	0.02	10.0	0.09 J	02/14/12	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	3.7 J	02/14/12	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	1.1 J	02/14/12	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	02/14/12	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	02/14/12	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	--- U	02/14/12	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	14	02/14/12	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	3.23	01/31/12	RJH	SM2130B
Conductivity (at 25c), uMhos/cm	1.0	1.0	795	01/31/12	RJH	SM2510B
Temperature, °C			11.48	01/31/12	RJH	SM2550B

J = Between MDL and SWSL, U = Below ALL Quanititation 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: 01/31/12
DATE ANALYZED: 02/02/12
DATE REPORTED: 02/16/12

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Lagoon
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U
22. Trichloroethene	0.23	1.0	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	--- U
37. Xylenes	0.68	5.0	--- U
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	--- U
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U

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

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

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

CHAIN OF CUSTODY RECORD

Page 1 of 1

CLIENT 6053 A **Week: 5**

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

(252) 566-4194

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	BOD	COD	Nitrate	T. Phosphorus	Sulfate	Metals	Turbidity	Conductivity	Temperature	EPA 8260B	8260 Dup. 1	8260 Dup. 2
						P	P	P	P	P	P	P	P	P	P	G	G	G
						A	A	C	A	C	A	A	A	A	A	E	E	E
								<2		<2		2				2	2	2
Lagoon 01	1/31/12	1205		4	10	G	G	C	C	C	C	C	C	A	A	S	S	S

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY:
(Please Print)
H Lage / Fox

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
R&H Lage 01	1/31/12		1/31/12 302pm
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form 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

FORM #5

№ 239376

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 B

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

DATE COLLECTED: 01/26/12
DATE REPORTED : 01/27/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-19S	MW-19D	P1-4	P1-14	P-14	Analysis Date	Analyst	Method Code
Static Water Level, feet			17.97	19.91	13.59	6.92	28.26	01/26/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation 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

ID#: 6053 B

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

DATE COLLECTED: 01/26/12
DATE REPORTED : 01/27/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	P-3A	P-17	P2-1	P2-4	P2-9	Analysis Date	Analyst	Method Code
Static Water Level, feet			18.04	14.25	26.25	31.51	27.85	01/26/12	RJH	

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

Environment 1, Incorporated

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Wastewater ID: 10

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GREENVILLE, N.C. 27835-7085

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ID#: 6053 B

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

DATE COLLECTED: 01/26/12
DATE REPORTED : 01/27/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	P2-10	Analysis Date	Analyst	Method Code
Static Water Level, feet			17.33	01/26/12	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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ID#: 6053

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

DATE COLLECTED: 01/31/12
DATE REPORTED : 02/01/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	P-22	Analysis Date	Analyst	Method Code
Static Water Level, feet			29.95	01/31/12	RJH	

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

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

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

CHAIN OF CUSTODY RECORD

CLIENT: 6053 B **Week:** 5

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

(252) 566-4194

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION
pH CHECK (LAB)
CONTAINER TYPE, P/G
CHEMICAL PRESERVATION

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field Parameter
P-22	01/26/12				1	G
MW-19S	01/26/12				1	G
MW-19D	01/26/12				1	G
P1-4	01/26/12				1	G
P1-14	01/26/12				1	G
P-14	01/26/12				1	G
P-3A	01/26/12				1	G
P-17	01/26/12				1	G
P2-1	01/26/12				1	G
P2-4	01/26/12				1	G
P2-9	01/26/12				1	G

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY: (Please Print)
R Rose FA

SAMPLES RECEIVED IN LAB AT U/A °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Rose	01/26/12		1/26/12 1149
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:
KEDO P22 JAN 31

PLEASE READ Instructions for completing this form 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.

FORM #5

№ 236046

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

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

CHAIN OF CUSTODY RECORD

CLIENT: **6053 B** **Week: 5**

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

(252) 566-4194

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field Parameter
P2-10	01/26/12				1	

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY (Y) N

SAMPLES COLLECTED BY: (Please Print)
R Page / FOP

SAMPLES RECEIVED IN LAB AT N/A °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
R Page	01/26/12		1/26/12 1149
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form 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.

FORM #5

№ 236045