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).
- 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.

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 Closed MSWLF and Active C&D Landfill	2949 Hodges Farm Road LaGrange, NC 28501	54-03	.1600	January 23, 2008

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. * Only C&D Parameters Iron & Manganese which are natural.
☐ 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 3/12/08 Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007

Groundwater Sampling Report and Statistical Analysis

Prepared for

Lenoir County Closed MSWLF and Active C&D Landfill
LaGrange, North Carolina

January, 2008

Permit Number: 54-03
MESCO Project Number: G08015.0

Completed on March 12, 2008

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

OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

March 12, 2008

Ms. Jaclynne 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 Report and Statistical Analysis
Lenoir County Closed MSWLF and Active C&D Landfill
Permit No.54-03
MESCO Project No. G08015.0

Dear Ms. Drummond:

Municipal Engineering Services Company, P.A. (MESCO) completed the sampling report and statistical analyses for the Lenoir County Closed MSWLF and active C&D Landfill located near LaGrange, NC. Environment I of Greenville NC, sampled the landfill on January 23, 2008 and also completed the laboratory analysis as part of the assessment monitoring program. All of the C&D landfill monitoring wells were analyzed for the C&D parameter list. The new parameter list includes the Appendix 1 list of VOCs and metals, mercury, specific conductance, pH, temperature, alkalinity, total dissolved solids, chloride, manganese, sulfate, and iron. The surface water monitoring locations SW-1 and SW-2 were analyzed for only the Appendix I list of metals and VOCs. Water samples obtained from background well MW-1 and MW-3 were analyzed for the Appendix II list of VOCs since MW-3 has historically been found to have statistically significant VOC detections. The report for the active Subtitle D lined MSWLF which comprise a separate portion of the facility is contained in a previously submitted report. The laboratory results are included herein.

The assessment monitoring program for the closed MSWLF and active C&D Landfill consists of downgradient wells (MW-3, MW-4, MW-6, MW-9, MW-11, MW-12), surface waters (SW-1, SW-2), and background well (MW-1). All of the detected constituents were compared with the Solid Waste Section Limits (SWSL) and the NCGW2L Standards for regulatory exceedance. The results are shown in the enclosed tables titled "Detection Scan". The only detections found in concentrations above the Standard during this event were the C&D parameters. The parameters found above the NCGW2L Standard were Iron within MW-1, MW-3, MW-4, MW-6, MW-9, MW-11, and manganese within MW-4, MW-6, MW-9. No VOCs, which are more indicative of leachate contamination, were detected in concentrations above the SWSL during this event.

MESCO completed the enclosed potentiometric map with groundwater elevations on the day of sampling, flow rates and direction. The calculated flow directions are consistent with previous events and the monitoring network continues to appear to be adequate. Calculated flow rates are also consistent with previous events with values ranging from <6 ft/year to >26 ft/yr. The field data sheet and chain of custody is also enclosed.

MESCO also completed the statistical analysis upon the monitoring wells for the closed landfill portion of the facility as required by the Solid Waste Section. The purpose of these analyses is to determine, in comparison to background levels, statistical significance of the constituent detected during this sampling event.

PO Box 97, Garner, North Carolina 27529 (919) 772-5393
PO Box 828, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

Statistical Analysis Methodology
Metals

MESCO conducted an interwell statistical analysis on all of the detected metals. Historical data from monitoring well MW-1 was defined as the background well, and an upper tolerance limit (UTL) with 95% coverage was computed for each detected constituent from the background data at a 95% level of confidence. For each tested constituent, an appropriate statistical analysis method was selected based on the percentages of non-detects (%ND) in the historical background data. The following table (Table 1) summarizes the methods used for four different %ND ranges.

Table 1. Statistical Analysis Methods for Various %ND Ranges

%ND	Analysis Method	ND Substitution
%ND<15%	Parametric tolerance limit	1/2 ND
15%<%ND<50%	Parametric tolerance limit	Cohen or 1/2 ND
50%<%ND<90%	Non-parametric tolerance limit	1/2 ND
90%<%ND	Poisson tolerance limit	-

NOTE: For parametric tolerance interval, normality of the background data was checked by the Shapiro-Wilks normality test, as the method requires that the data be normally distributed.

A preliminary data screening was conducted upon the metals detected in all monitoring locations. Detected parameters with concentrations found below that of the background well MW-1 and those parameters found below the SWSL were eliminated and a statistical analysis was not conducted upon these wells. A total of 2 metals were tested for statistical significance. Since cobalt and zinc have rarely been detected within the background well the Poisson Tolerance Limit on either the original or the log of the data with no ND substitution was utilized.

Intrawell Analyses

Intrawell Analyses was conducted only upon the constituent that was initially found to be statistically significant by interwell analysis. In general, intrawell analysis is conducted in order to differentiate true contamination from spatial variability. Baseline levels in this context are defined as the background level derived from the data in a given downgradient well. Intrawell analyses through Shewhart-CUSUM control charts require a minimum of eight independent historical sampling events and a detection rate greater than 25% (%ND≤75%).

Results

Historical data compiled for monitoring well MW-1 was used as the baseline. Data distribution and potential outliers were reviewed using time series and box and whiskers plots (enclosed charts). Cobalt within MW-9 was found to have increased in concentration per interwell analysis. However, further intrawell analysis revealed that the concentration of cobalt within MW-9 is not statistically significant.

Conclusion

Once again no constituents were found to have increased in statistically significant concentrations indicating that the groundwater downgradient of the waste boundary appears to continue to improve through natural attenuation and it is very unlikely that contaminants exist beyond the compliance boundary.

MESCO submitted the required Assessment of Corrective Measures (ACM) report to the Section on August 30, 2007. The approved comprehensive report concludes that corrective action is unwarranted at this time and the facility should revert back to detection monitoring. The formal ACM public meeting is scheduled for March 26, 2008.

The facility is scheduled to be sampled again for the complete Appendix I list of constituents in July 2008. Please contact me either by phone at (919) 772-5393, or by email at jpfohl@mesco.com should you have any questions or concerns regarding this report.

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

Jonathan Pfohl
Environmental Specialist

Enclosures
cc: Mr. Tom Miller
Lenoir County

Detection Scan All Detections above SWSL and NCGW2L
Lenoir County Closed MSWLF and C&D Landfill

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-1	Chloride	01/23/2008	9000	ug/l	5000	5000	250000			
MW-1	**Iron**	**01/23/2008**	**1221**	**ug/l**	**12.0**	**300**	**300**		**921**	**Natural**
MW-1	TDS	01/23/2008	54000	ug/l	1000	1000	500000			
MW-3	Chloride	01/23/2008	40000	ug/l	5000	5000	250000			
MW-3	**Iron**	**01/23/2008**	**904**	**ug/l**	**12.0**	**300**	**300**		**604**	**Natural**
MW-3	Total Alkalinity	01/23/2008	2000	ug/l	1000	1000				
MW-3	TDS	01/23/2008	44000	ug/l	1000	1000	500000			
MW-3	Zinc	01/23/2008	27	ug/l	1.86	10	1050			
MW-4	Chloride	01/23/2008	5000	ug/l	5000	5000	250000			
MW-4	**Iron**	**01/23/2008**	**9335**	**ug/l**	**12.0**	**300**	**300**		**9035**	**Natural**
MW-4	**Manganese**	**01/23/2008**	**63**	**ug/l**	**0.50**	**50**	**50**		**13**	**Natural**
MW-4	TDS	01/23/2008	62000	ug/l	1000	1000	500000			
MW-4	**Vanadium**	**01/23/2008**	**3.9**	**ug/l**	**1.21**	**25**		**3.5**	**0.4**	**Natural**
MW-6	Chloride	01/23/2008	5000	ug/l	5000	5000	250000			
MW-6	**Iron**	**01/23/2008**	**2239**	**ug/l**	**12.0**	**300**	**300**		**1939**	**Natural**
MW-6	**Manganese**	**01/23/2008**	**55**	**ug/l**	**0.50**	**50**	**50**		**5**	**Natural**
MW-6	TDS	01/23/2008	72000	ug/l	1000	1000	500000			
MW-6	Zinc	01/23/2008	58	ug/l	1.86	10	1050			
MW-9	Chloride	01/23/2008	12000	ug/l	5000	5000	250000			
MW-9	Cobalt	01/23/2008	20	ug/l	2.53	10		70		
MW-9	**Iron**	**01/23/2008**	**4998**	**ug/l**	**12.0**	**300**	**300**		**4698**	**Natural**
MW-9	**Manganese**	**01/23/2008**	**1459**	**ug/l**	**0.50**	**50**	**50**		**1409**	**Natural**
MW-9	**Thallium**	**01/23/2008**	**0.3**	**ug/l**	**0.07**	**5**		**0.28**	**0.02**	**Natural**
MW-9	Total Alkalinity	01/23/2008	36000	ug/l	1000	1000				
MW-9	TDS	01/23/2008	117000	ug/l	1000	1000	500000			
MW-11	Chloride	01/23/2008	20000	ug/l	5000	5000	250000			
MW-11	**Iron**	**01/23/2008**	**928**	**ug/l**	**12.0**	**300**	**300**		**628**	**Natural**
MW-11	TDS	01/23/2008	41000	ug/l	1000	1000	500000			
MW-12	Chloride	01/23/2008	54000	ug/l	5000	5000	250000			
MW-12	TDS	01/23/2008	73000	ug/l	1000	1000	500000			
SW-2	**Vanadium**	**01/23/2008**	**4.1**	**ug/l**	**0.42**	**25**		**3.5**	**0.6**	**Natural**

[1] Table only contains detected constituents
[2] SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)
[3] NCGW2L = North Carolina Ground Water 2L Standard
[4] MDL = Method Detection Limit
[4] GWP = Groundwater Protection Standard (Current as of Sampling Event)
LFG = Landfill Gas

Detection Scan All Detections Reported by Laboratory
Lenoir County Closed MSWLF and C&D Landfill

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-1	Antimony	01/23/2008	0.1	ug/l	0.05	6		1.4		
MW-1	Barium	01/23/2008	14.6	ug/l	0.34	100	2000			
MW-1	Beryllium	01/23/2008	0.1	ug/l	0.17	1		2		
MW-1	Chloride	01/23/2008	9000	ug/l	5000	5000	250000			
MW-1	Chromium	01/23/2008	0.4	ug/l	1.38	10	50			
MW-1	Cobalt	01/23/2008	0.9	ug/l	2.53	10		70		
MW-1	Copper	01/23/2008	0.6	ug/l	2.24	10	1000			
MW-1	**Iron**	**01/23/2008**	**1221**	**ug/l**	**12.0**	**300**	**300**		**921**	**Natural**
MW-1	Lead	01/23/2008	0.6	ug/l	0.07	10	15			
MW-1	Manganese	01/23/2008	12	ug/l	0.50	50	50			
MW-1	Nickel	01/23/2008	1	ug/l	1.35	50	100			
MW-1	TDS	01/23/2008	54000	ug/l	1000	1000	500000			
MW-1	Vanadium	01/23/2008	1.9	ug/l	1.21	25		3.5		
MW-1	Zinc	01/23/2008	4.9	ug/l	1.86	10	1050			
MW-11	1,2-Dichloropropane	01/23/2008	0.4	ug/l	0.17	1	0.51			
MW-11	Acetone	01/23/2008	1.4	ug/l	1.21	100	700			
MW-11	Antimony	01/23/2008	0.3	ug/l	0.05	6		1.4		
MW-11	Arsenic	01/23/2008	0.7	ug/l	0.47	10	50			
MW-11	Barium	01/23/2008	18.8	ug/l	0.04	100	2000			
MW-11	Beryllium	01/23/2008	0.1	ug/l	0.08	1		2		
MW-11	Cadmium	01/23/2008	0.1	ug/l	0.06	1	1.75			
MW-11	Chloride	01/23/2008	20	ug/l	5.0	5	250000			
MW-11	Chloromethane	01/23/2008	0.3	ug/l	0.18	1	2.6			
MW-11	Copper	01/23/2008	1.2	ug/l	0.20	10	1000			
MW-11	**Iron**	**01/23/2008**	**928**	**ug/l**	**12.0**	**300**	**300**		**628**	**Natural**
MW-11	Lead	01/23/2008	0.1	ug/l	0.07	10	15			
MW-11	Manganese	01/23/2008	16	ug/l	0.50	50	50			
MW-11	TDS	01/23/2008	41000	ug/l	1000	1000	500000			
MW-11	Vanadium	01/23/2008	1.4	ug/l	0.42	25		3.5		
MW-11	Zinc	01/23/2008	3.6	ug/l	0.20	10	1050			
MW-12	Acetone	01/23/2008	1.9	ug/l	1.21	100	700			
MW-12	Antimony	01/23/2008	0.4	ug/l	0.05	6		1.4		
MW-12	Arsenic	01/23/2008	0.9	ug/l	0.47	10	50			
MW-12	Barium	01/23/2008	69.3	ug/l	0.04	100	2000			
MW-12	Benzene	01/23/2008	0.2	ug/l	0.16	1	1			
MW-12	Beryllium	01/23/2008	0.1	ug/l	0.08	1		2		
MW-12	Cadmium	01/23/2008	0.3	ug/l	0.06	1	1.75			
MW-12	Chloride	01/23/2008	54	ug/l	5.0	5	250000			
MW-12	Cobalt	01/23/2008	0.8	ug/l	0.41	10		70		
MW-12	Copper	01/23/2008	0.6	ug/l	0.20	10	1000			
MW-12	Iron	01/23/2008	172	ug/l	12.0	300	300			
MW-12	Lead	01/23/2008	0.1	ug/l	0.07	10	15			
MW-12	Manganese	01/23/2008	7.1	ug/l	0.50	50	50			
MW-12	Mercury	01/23/2008	0.17	ug/l	0.13	0.2	1.1			
MW-12	Nickel	01/23/2008	1.3	ug/l	0.66	50	100			
MW-12	Selenium	01/23/2008	1.2	ug/l	0.35	10	50			
MW-12	TDS	01/23/2008	73000	ug/l	1000	1000	500000			
MW-12	Vanadium	01/23/2008	0.9	ug/l	0.42	25		3.5		
MW-12	Zinc	01/23/2008	3.3	ug/l	0.20	10	1050			
MW-3	Acetone	01/23/2008	1.3	ug/l	1.21	100	700			
MW-3	Arsenic	01/23/2008	0.6	ug/l	0.47	10	50			
MW-3	Barium	01/23/2008	32.4	ug/l	0.34	100	2000			
MW-3	Cadmium	01/23/2008	0.1	ug/l	0.06	1	1.75			
MW-3	Chloride	01/23/2008	40000	ug/l	5000	5000	250000			
MW-3	Chromium	01/23/2008	0.4	ug/l	1.38	10	50			

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-3	Copper	01/23/2008	0.5	ug/l	2.24	10	1000			
MW-3	**Iron**	**01/23/2008**	**904**	**ug/l**	**12.0**	**300**	**300**		**604**	**Natural**
MW-3	Lead	01/23/2008	0.3	ug/l	0.07	10	15			
MW-3	Manganese	01/23/2008	11	ug/l	0.50	50	50			
MW-3	Sulfate	01/23/2008	7700	ug/l	5000	250000	250000			
MW-3	Total Alkalinity	01/23/2008	2000	ug/l	1000	1000				
MW-3	TDS	01/23/2008	44000	ug/l	1000	1000	500000			
MW-3	Vanadium	01/23/2008	1.3	ug/l	1.21	25		3.5		
MW-3	Zinc	01/23/2008	27	ug/l	1.86	10	1050			
MW-4	Antimony	01/23/2008	0.1	ug/l	0.05	6		1.4		
MW-4	Arsenic	01/23/2008	3.2	ug/l	0.47	10	50			
MW-4	Barium	01/23/2008	33.7	ug/l	0.34	100	2000			
MW-4	Benzene	01/23/2008	0.3	ug/l	0.16	1	1			
MW-4	Cadmium	01/23/2008	0.1	ug/l	0.06	1	1.75			
MW-4	Chloride	01/23/2008	5	ug/l	5.0	5	250000			
MW-4	Chlorobenzene	01/23/2008	0.2	ug/l	0.13	3	50			
MW-4	Chromium	01/23/2008	0.5	ug/l	1.38	10	50			
MW-4	Cobalt	01/23/2008	0.6	ug/l	2.53	10		70		
MW-4	Copper	01/23/2008	1.3	ug/l	2.24	10	1000			
MW-4	**Iron**	**01/23/2008**	**9335**	**ug/l**	**12.0**	**300**	**300**		**9035**	**Natural**
MW-4	Lead	01/23/2008	0.5	ug/l	0.07	10	15			
MW-4	**Manganese**	**01/23/2008**	**63**	**ug/l**	**0.50**	**50**	**50**		**13**	**Natural**
MW-4	Nickel	01/23/2008	0.7	ug/l	1.35	50	100			
MW-4	Selenium	01/23/2008	0.6	ug/l	0.35	10	50			
MW-4	Sulfate	01/23/2008	193000	ug/l	5000	250000	250000			
MW-4	TDS	01/23/2008	62000	ug/l	1000	1000	500000			
MW-4	**Vanadium**	**01/23/2008**	**3.9**	**ug/l**	**1.21**	**25**		**3.5**	**0.4**	**Natural**
MW-4	Zinc	01/23/2008	4.9	ug/l	1.86	10	1050			
MW-6	Arsenic	01/23/2008	1.1	ug/l	0.47	10	50			
MW-6	Barium	01/23/2008	50.7	ug/l	0.34	100	2000			
MW-6	Beryllium	01/23/2008	0.1	ug/l	0.17	1		2		
MW-6	Cadmium	01/23/2008	0.2	ug/l	0.06	1	1.75			
MW-6	Chloride	01/23/2008	5000	ug/l	5.0	5000	250000			
MW-6	Cobalt	01/23/2008	0.6	ug/l	2.53	10		70		
MW-6	Copper	01/23/2008	0.4	ug/l	2.24	10	1000			
MW-6	**Iron**	**01/23/2008**	**2239**	**ug/l**	**12.0**	**300**	**300**		**1939**	**Natural**
MW-6	Lead	01/23/2008	1.3	ug/l	0.07	10	15			
MW-6	**Manganese**	**01/23/2008**	**55**	**ug/l**	**0.50**	**50**	**50**		**5**	**Natural**
MW-6	Nickel	01/23/2008	0.8	ug/l	1.35	50	100			
MW-6	Selenium	01/23/2008	0.7	ug/l	0.35	10	50			
MW-6	Sulfate	01/23/2008	27000	ug/l	5000	250000	250000			
MW-6	Tetrachloroethene	01/23/2008	0.4	ug/l	0.16	1	0.7			
MW-6	TDS	01/23/2008	72000	ug/l	1000	1000	500000			
MW-6	Vanadium	01/23/2008	1.2	ug/l	1.21	25		3.5		
MW-6	Zinc	01/23/2008	58	ug/l	1.86	10	1050			
MW-9	Arsenic	01/23/2008	1.4	ug/l	0.47	10	50			
MW-9	Barium	01/23/2008	64.4	ug/l	0.34	100	2000			
MW-9	Beryllium	01/23/2008	0.1	ug/l	0.17	1		2		
MW-9	Cadmium	01/23/2008	0.2	ug/l	0.06	1	1.75			
MW-9	Chloride	01/23/2008	12	ug/l	5.0	5	250000			
MW-9	Cobalt	01/23/2008	20	ug/l	2.53	10		70		
MW-9	Copper	01/23/2008	0.4	ug/l	2.24	10	1000			
MW-9	**Iron**	**01/23/2008**	**4998**	**ug/l**	**12.0**	**300**	**300**		**4698**	**Natural**
MW-9	**Manganese**	**01/23/2008**	**1459**	**ug/l**	**0.50**	**50**	**50**		**1409**	**Natural**
MW-9	Mercury	01/23/2008	0.11	ug/l	0.13	0.2	1.1			
MW-9	Nickel	01/23/2008	2.7	ug/l	1.35	50	100			
MW-9	Selenium	01/23/2008	0.4	ug/l	0.35	10	50			
MW-9	Sulfate	01/23/2008	30000	ug/l	5000	250000	250000			

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [4]	SWSL [2]	NCGW2L [3]	GWP[5]	Exceedance	Preliminary Cause
MW-9	**Thallium**	**01/23/2008**	**0.3**	**ug/l**	**0.07**	**5**		**0.28**	**0.02**	**Natural**
MW-9	Total Alkalinity	01/23/2008	36000	ug/l	1000	1000				
MW-9	TDS	01/23/2008	117000	ug/l	1000	1000	500000			
MW-9	Vanadium	01/23/2008	1	ug/l	1.21	25		3.5		
MW-9	Zinc	01/23/2008	8.3	ug/l	1.86	10	1050			
SW-1	Arsenic	01/23/2008	1	ug/l	0.47	10	50			
SW-1	Barium	01/23/2008	32	ug/l	0.04	100	2000			
SW-1	Copper	01/23/2008	0.3	ug/l	0.20	10	1000			
SW-1	Lead	01/23/2008	0.1	ug/l	0.07	10	15			
SW-1	Vanadium	01/23/2008	0.6	ug/l	0.42	25		3.5		
SW-1	Zinc	01/23/2008	3.7	ug/l	0.20	10	1050			
SW-2	2-Butanone	01/23/2008	1.4	ug/l	0.85	100	4200			
SW-2	Acetone	01/23/2008	9.5	ug/l	1.21	100	700			
SW-2	Antimony	01/23/2008	0.1	ug/l	0.05	6		1.4		
SW-2	Arsenic	01/23/2008	1.7	ug/l	0.47	10	50			
SW-2	Barium	01/23/2008	96.9	ug/l	0.04	100	2000			
SW-2	Chromium	01/23/2008	4.1	ug/l	0.24	10	50			
SW-2	Cobalt	01/23/2008	0.7	ug/l	0.41	10		70		
SW-2	Copper	01/23/2008	1.6	ug/l	0.20	10	1000			
SW-2	Lead	01/23/2008	1.2	ug/l	0.07	10	15			
SW-2	Nickel	01/23/2008	2	ug/l	0.66	50	100			
SW-2	Selenium	01/23/2008	0.4	ug/l	0.35	10	50			
SW-2	**Vanadium**	**01/23/2008**	**4.1**	**ug/l**	**0.42**	**25**		**3.5**	**0.6**	**Natural**
SW-2	Zinc	01/23/2008	5.2	ug/l	0.20	10	1050			
EB	Acetonitrile	01/23/2008	8.8	ug/l	5.96	55		42		
EB	Antimony	01/23/2008	0.1	ug/l	0.05	6		1.4		
EB	Barium	01/23/2008	7.3	ug/l	0.04	100	2000			
EB	Copper	01/23/2008	0.3	ug/l	0.20	10	1000			
EB	Iron	01/23/2008	57	ug/l	12.0	300	300			
EB	Manganese	01/23/2008	0.77	ug/l	0.50	50	50			

[1] Table only contains detected constituents

[2] SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

[3] NCGW2L = North Carolina Ground Water 2L Standard

[4] MDL = Method Detection Limit

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

LFG = Landfill Gas

Hydrologic Properties at Monitoring Well Locations
Lenoir County Closed MSWLF and C&D Landfill

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elev. (ft)
MW-1	4.30E-04	20%	0.01	20.1	N23E	19.02	79.32
MW-3	1.30E-04	20%	0.01	5.1	N26E	5.02	58.85
MW-4	5.40E-04	20%	0.01	25.7	N27E	5.25	62.78
MW-6	-	-	0.01	-	N1W	13.29	72.27
MW-9	3.80E-04	20%	0.01	11.0	N35E	5.33	57.07
MW-11	6.59E-04	20%	0.01	23.2	N23E	13.56	64.7
MW-12	2.10E-04	20%	0.007	7.2	N28E	16.43	61.03

NOTE: 1.Hydraulic conductivity (K), values for MW-1 through MW-10 were obtained from GAI Consultants (June 1996).

K values for MW-11 and MW-12 were based on slug test results conducted by MESCO in July 1999.

2.Water levels were measured prior to sampling by Environment 1, Inc. on January 23, 2008.

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

Statistical Analysis Results Summary

Inter-Well Analysis Summary
Lenoir County Closed MSWLF and Active C&D Landfill

Background Well: MW-1

Cobalt, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
96.67	-	Poisson tolerance limit	ND	15.5	ug/l

Well	Result	Significance
MW-9	20	yes

Zinc, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
96.67	log-normal	Poisson tolerance limit	ND	7.5	log[ug/l]

Well	Result	Significance
MW-3	3.30	no
MW-6	4.06	no

NOTE: Bold-faced monitoring points indicate detected levels exceed North Carolina Groundwater Standard.

Intra-Well Analysis Summary (Metals)
Lenoir County Closed MSWLF and Active C&D Landfill

Well	Cobalt
MW-9	no

EXPLANATION

yes=detection statistically significant by intrawell analysis

no=detection not statistically significant by intrawell analysis

n/a=not available, intrawell not possible via Shewhart CUSUM chart due to detection rate requirement

No Metals have increased according to Intrawell Analysis

Summary of Pooled VOCs in Background Well (MW-1)
Lenoir County Closed MSWLF and Active C&D Landfill

Constituent	Samples	NDs	% NDs
1,1,1,2-Tetrachloroethane	30	30	100.00
1,1,1-Trichloroethane	30	30	100.00
1,1,2,2-Tetrachloroethane	30	30	100.00
1,1,2-Trichloroethane	30	30	100.00
1,1-Dichloroethane	30	30	100.00
1,1-Dichloroethene	30	30	100.00
1,2,3-Trichloropropane	30	30	100.00
1,2-Dibromo-3-chloropropane	30	30	100.00
1,2-Dibromoethane	30	30	100.00
1,2-Dichlorobenzene	30	30	100.00
1,2-Dichloroethane	30	30	100.00
1,2-Dichloropropane	30	30	100.00
1,4-Dichlorobenzene	30	30	100.00
2-Butanone	30	30	100.00
2-Hexanone	30	30	100.00
4-Methyl-2-Pentanone	30	30	100.00
Acetone	30	30	100.00
Acrylonitrile	30	30	100.00
Benzene	30	30	100.00
Bromochloromethane	30	30	100.00
Bromodichloromethane	30	30	100.00
Bromoform	30	30	100.00
Bromomethane	30	30	100.00
Carbon disulfide	30	30	100.00
Carbon tetrachloride	30	30	100.00
Chlorobenzene	30	30	100.00
Chloroethane	30	30	100.00
Chloroform	30	30	100.00
Chloromethane	30	30	100.00
cis-1,2-Dichloroethene	30	30	100.00
cis-1,3-Dichloropropene	30	30	100.00
Chlorodibromomethane	30	30	100.00
Dibromomethane	30	30	100.00
Ethylbenzene	30	30	100.00
Iodomethane	30	30	100.00
Dichloromethane	30	30	100.00
Styrene	30	30	100.00
Tetrachloroethylene	30	30	100.00
Toluene	30	30	100.00
trans-1,2-Dichloroethene	30	30	100.00
trans-1,3-Dichloropropene	30	30	100.00
trans-1,4-Dichloro-2-butene	30	30	100.00
Trichloroethylene	30	30	100.00
Trichlorofluoromethane	30	30	100.00
Vinyl acetate	30	30	100.00
Vinyl chloride	30	30	100.00
Xylene	30	30	100.00
Total	**1410**	**1410**	**100.00**

Poisson Prediction Interval Based upon Pooled Background VOCs
Lenoir County Closed MSWLF and Active C&D Landfill

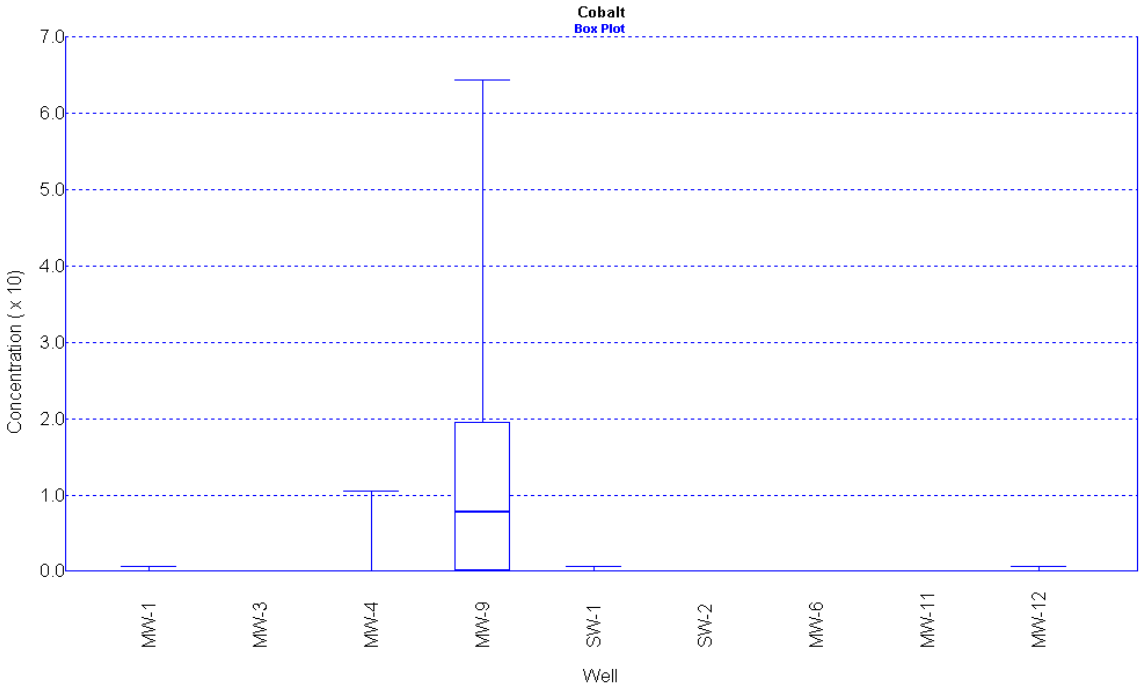
All detected VOCs (Background Well: MW-1)

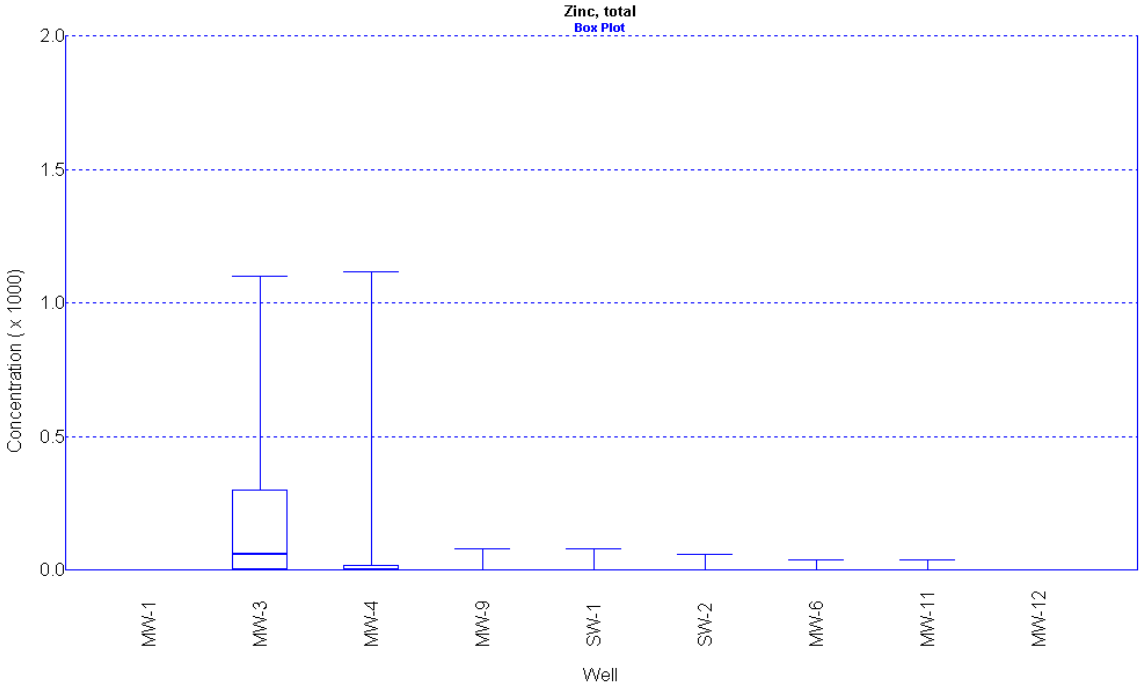
Constituent	
None	
Detection(s) per Scan	0.00

Total number of sampling events [n] =	30
Total number of detections in background wells [y] =	0
Number of comparisons (downgradient wells) [k] =	6
One-sided value of Student's t-statistic (95% confidence) [t] =	2.52
Expected number of detections in a single future sample [y*] =	**0.2115**

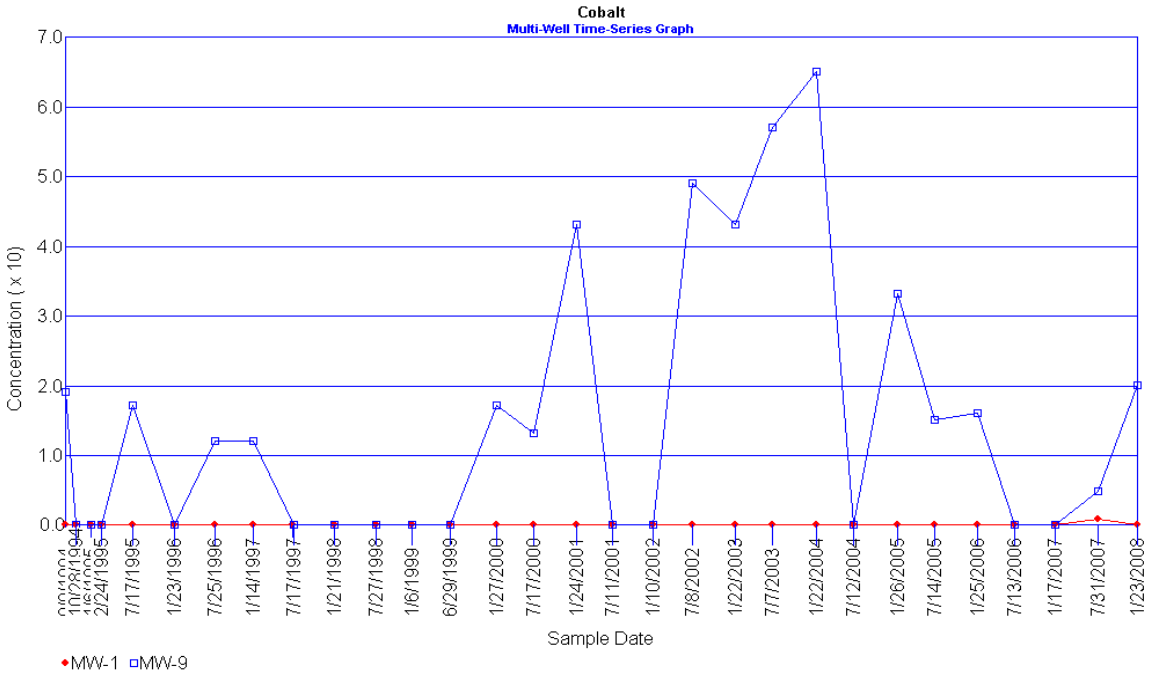
No Statistically Significant VOC Detections

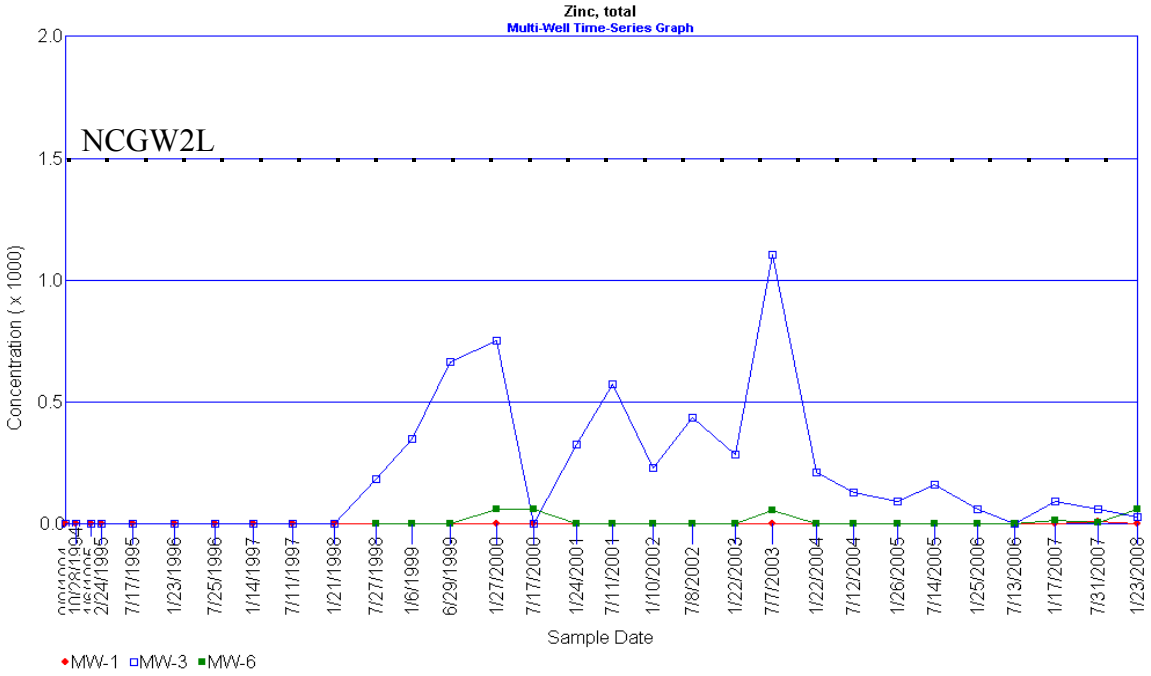
Box Plots for Select Constituents (Metals)
Lenoir County Closed MSWLF and Active C&D Landfill



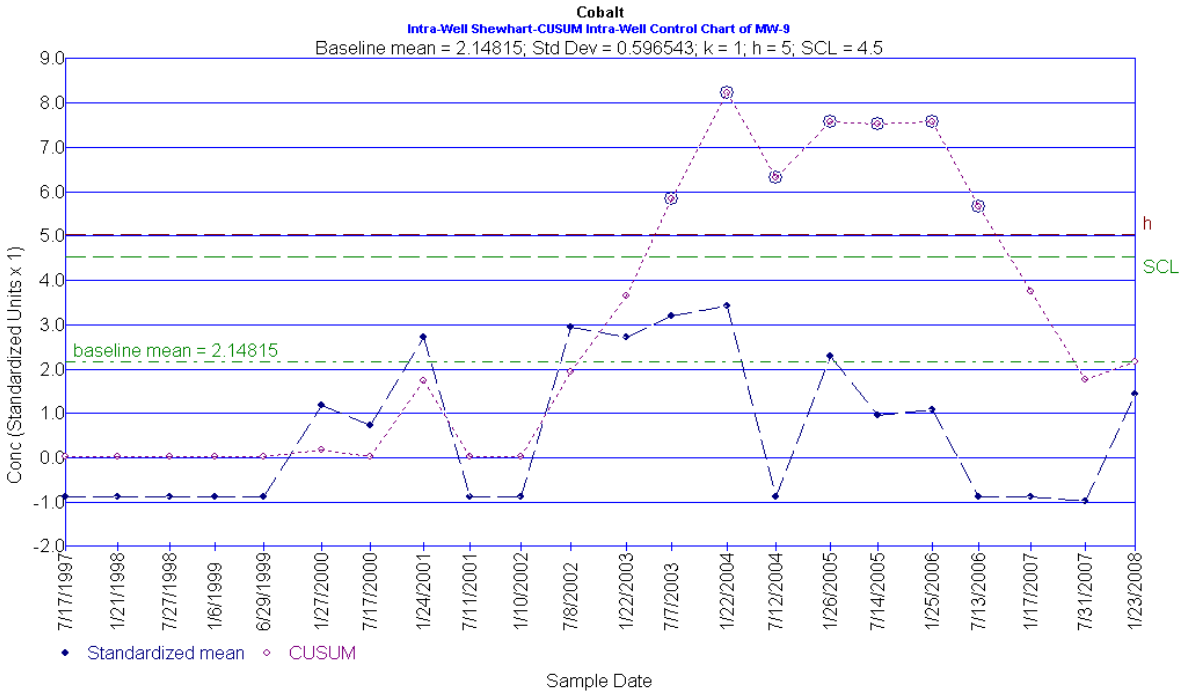


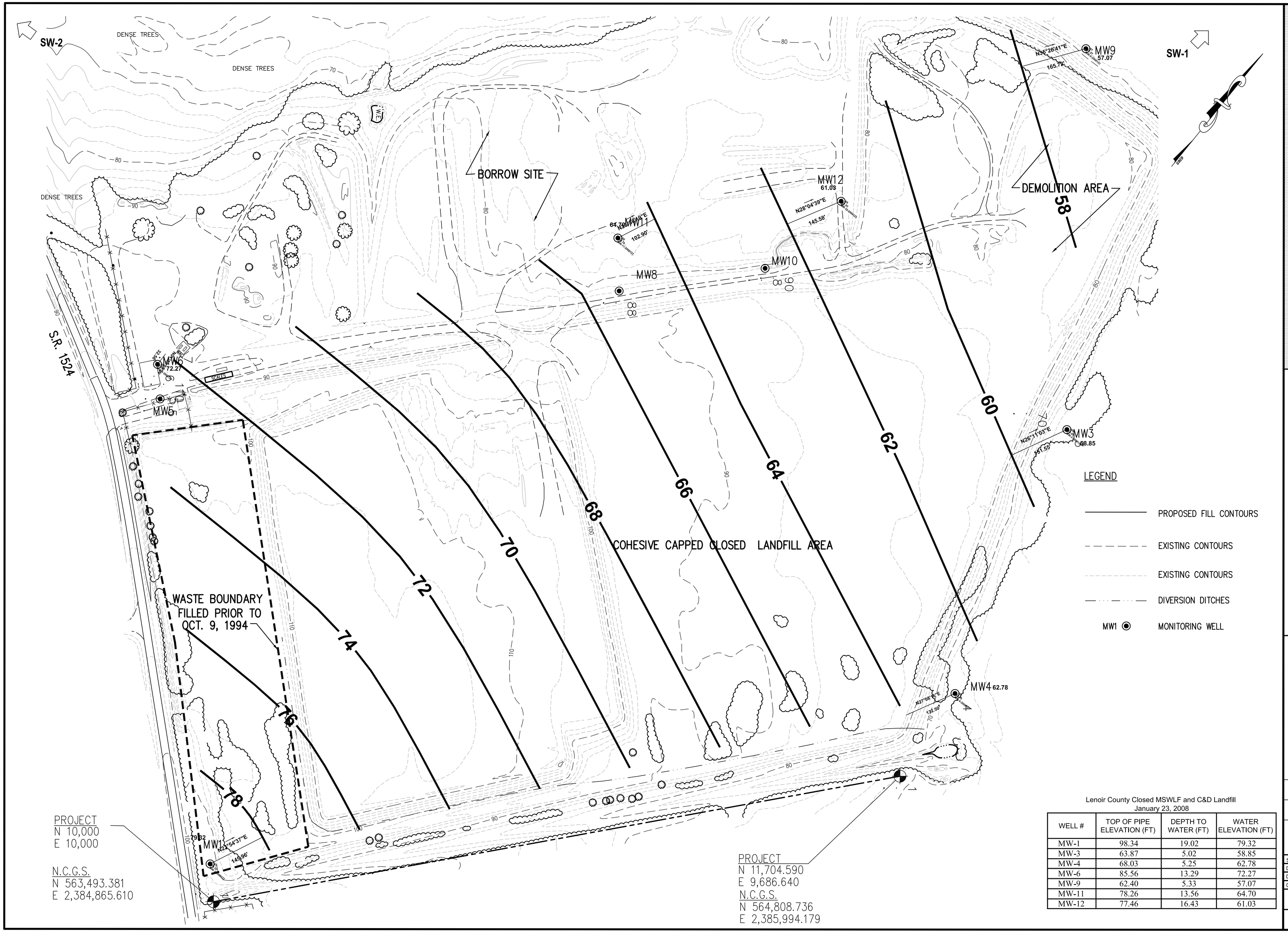
Time Series Plots for Select Constituents (Metals)
Lenoir County Closed MSWLF and Active C&D Landfill





Shewhart-CUSUM charts for selected constituents
Lenoir County Closed MSWLF and Active C&D Landfill





Lenoir County Closed MSWLF and C&D Landfill
January 23, 2008

WELL #	TOP OF PIPE ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)
MW-1	98.34	19.02	79.32
MW-3	63.87	5.02	58.85
MW-4	68.03	5.25	62.78
MW-6	85.56	13.29	72.27
MW-9	62.40	5.33	57.07
MW-11	78.26	13.56	64.70
MW-12	77.46	16.43	61.03

Municipal Engineering Services Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 27529 (704) 262-1767

GROUNDWATER SAMPLING
MUNICIPAL SOLID WASTE LANDFILL
LENOIR COUNTY
NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

POTENTIOMETRIC MAP
SINGLE DAY

SCALE: 1"=100'
DATE: 3/8/02
DRWN. BY: L. HAMPTON
CHKD. BY: K. YOSHIDA
PROJECT NUMBER G99004
DRAWING NO. PM
SHEET NO. 1 of 1

Basic Statistics

Basic Statistics

Parameter: Zinc, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
231	
Total Non-Detects	182
Pooled Mean	54.0242
Pooled Std Dev	132.076
Background Mean	22.8577
Background Std Dev	6.56458

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	30	29	96.6667	685.73

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	22.8577	6.56458	0	2841.5	94.7167

Compliance Wells

There are 8 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-3	30	12	40	5983
MW-4	30	22	73.3333	2112.03
MW-9	30	24	80	904.43
SW-1	28	26	92.8571	698.7
SW-2	27	22	81.4815	710.7
MW-6	20	14	70	589.7
MW-11	18	16	88.8889	412.6
MW-12	18	17	94.4444	382.7

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-3	199.433	264.836	176.576	31.146	5034	167.8
MW-4	70.401	200.522	47.5433	31.146	3675	122.5
MW-9	30.1477	19.0468	7.29	31.146	3415	113.833
SW-1	24.9536	14.5334	2.0959	31.6973	2780	99.2857
SW-2	26.3222	14.104	3.46456	31.9995	3007	111.37
MW-6	29.485	14.7273	6.62733	34.8223	2458	122.9
MW-11	22.9222	11.4931	0.0645556	35.9643	1847	102.611
MW-12	21.2611	8.64374	-1.59656	35.9643	1738.5	96.5833

Analysis of Variance Statistics

SS Wells	781763
SS Total	4.01211e+006

Kruskal-Wallis Statistics

Non-Detect Rank	91.5
Background Rank Sum	2841.5
Background Rank Mean	94.7167
H Statistic	25.719
H Adjusted for Ties	50.3378

Basic Statistics

Parameter: Cobalt

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

	Total Observations
231	
Total Non-Detects	208
Pooled Mean	6.28985
Pooled Std Dev	7.5121
Background Mean	4.7355
Background Std Dev	1.00844

Background Wells

There is 1 background well

Well	Samples	Non-Detects	% ND	Total
MW-1	30	29	96.6667	142.065

Well	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	4.7355	1.00844	0	3242.5	108.083

Compliance Wells

There are 8 compliance wells

Well	Samples	Non-Detects	% ND	Total
MW-3	30	30	100	141.47
MW-4	30	27	90	153.165
MW-9	30	14	46.6667	505.7
SW-1	28	27	96.4286	130.905
SW-2	27	26	96.2963	125.805
MW-6	20	20	100	91.47
MW-11	18	18	100	81.47
MW-12	18	17	94.4444	80.905

Well	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-3	4.71567	1.09098	-0.0198333	1.65518	3135	104.5
MW-4	5.1055	1.77557	0.37	1.65518	3465.5	115.517
MW-9	16.8567	17.4066	12.1212	1.65518	5037	167.9
SW-1	4.67518	1.19455	-0.0603214	1.68448	3031.5	108.268
SW-2	4.65944	1.2282	-0.0760556	1.70054	2926	108.37
MW-6	4.5735	1.32395	-0.162	1.85055	2090	104.5
MW-11	4.52611	1.39115	-0.209389	1.91124	1881	104.5
MW-12	4.49472	1.47302	-0.240778	1.91124	1987.5	110.417

Analysis of Variance Statistics

SS Wells	3856.32
SS Total	12979.3

Kruskal-Wallis Statistics

Non-Detect Rank	104.5
Background Rank Sum	3242.5
Background Rank Mean	108.083
H Statistic	21.3827
H Adjusted for Ties	79.2098

Interwell Analyses for Metals

Poisson Tolerance Limit

Parameter: Cobalt

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Poisson Count of 30 background Samples = 283.33
Degrees of Freedom = 568

95% Confidence Values

Chi-Squared Value (95% Confidence) = 624.553
Lambda (from Zack's formula) = 10.4092
Smallest Degrees of Freedom = 33
Upper Tolerance Limit (95%) = 15.5

99% Confidence Values

Chi-Squared Value (99% Confidence) = 649.336
Lambda (from Zack's formula) = 10.8223
Smallest Degrees of Freedom = 40
Upper Tolerance Limit (99%) = 19

	Date	Result	Impacted 95%	Impacted 99%
MW-9	9/9/1994	19	TRUE	FALSE
	10/28/1994	ND<10	FALSE	FALSE
	1/6/1995	ND<10	FALSE	FALSE
	2/24/1995	ND<10	FALSE	FALSE
	7/17/1995	17	TRUE	FALSE
	1/23/1996	ND<10	FALSE	FALSE
	7/25/1996	12	FALSE	FALSE
	1/14/1997	12	FALSE	FALSE
	7/17/1997	ND<10	FALSE	FALSE
	1/21/1998	ND<10	FALSE	FALSE
	7/27/1998	ND<10	FALSE	FALSE
	1/6/1999	ND<10	FALSE	FALSE
	6/29/1999	ND<10	FALSE	FALSE
	1/27/2000	17	TRUE	FALSE
	7/17/2000	13	FALSE	FALSE
	1/24/2001	43	TRUE	TRUE
	7/11/2001	ND<10	FALSE	FALSE
	1/10/2002	ND<10	FALSE	FALSE
	7/8/2002	49	TRUE	TRUE
	1/22/2003	43	TRUE	TRUE
	7/7/2003	57	TRUE	TRUE
	1/22/2004	65	TRUE	TRUE
	7/12/2004	ND<10	FALSE	FALSE
	1/26/2005	33	TRUE	TRUE
	7/14/2005	15	FALSE	FALSE
	1/25/2006	16	TRUE	FALSE
	7/13/2006	ND<10	FALSE	FALSE
	1/17/2007	ND<10	FALSE	FALSE
	7/31/2007	4.7	FALSE	FALSE
	1/23/2008	20	TRUE	TRUE

Poisson Tolerance Limit

Parameter: Zinc, total

Natural Logarithm Transformation
Non-Detects Replaced with Detection Limit

Poisson Count of 30 background Samples = 110.116
Degrees of Freedom = 222

95% Confidence Values

Chi-Squared Value (95% Confidence) = 257.758
Lambda (from Zack's formula) = 4.29597
Smallest Degrees of Freedom = 17
Upper Tolerance Limit (95%) = 7.5

99% Confidence Values

Chi-Squared Value (99% Confidence) = 273.939
Lambda (from Zack's formula) = 4.56564
Smallest Degrees of Freedom = 22
Upper Tolerance Limit (99%) = 10

	Date	Result	Impacted 95%	Impacted 99%
MW-3	9/9/1994	ND<3.91202	FALSE	FALSE
	10/28/1994	ND<3.91202	FALSE	FALSE
	1/6/1995	ND<3.91202	FALSE	FALSE
	2/24/1995	ND<3.91202	FALSE	FALSE
	7/17/1995	ND<3.91202	FALSE	FALSE
	1/23/1996	ND<3.91202	FALSE	FALSE
	7/25/1996	ND<3.91202	FALSE	FALSE
	1/14/1997	ND<3.91202	FALSE	FALSE
	7/11/1997	ND<3.91202	FALSE	FALSE
	1/21/1998	ND<3.91202	FALSE	FALSE
	7/27/1998	5.18739	FALSE	FALSE
	1/6/1999	5.84932	FALSE	FALSE
	6/29/1999	6.49527	FALSE	FALSE
	1/27/2000	6.62007	FALSE	FALSE
	7/17/2000	ND<3.91202	FALSE	FALSE
	1/24/2001	5.78074	FALSE	FALSE
	7/11/2001	6.34914	FALSE	FALSE
	1/10/2002	5.4161	FALSE	FALSE
	7/8/2002	6.06611	FALSE	FALSE
	1/22/2003	5.63479	FALSE	FALSE
	7/7/2003	7.00397	FALSE	FALSE
	1/22/2004	5.33754	FALSE	FALSE
	7/12/2004	4.83628	FALSE	FALSE
	1/26/2005	4.46591	FALSE	FALSE
	7/14/2005	5.0689	FALSE	FALSE
	1/25/2006	4.04305	FALSE	FALSE
	7/13/2006	ND<3.91202	FALSE	FALSE
	1/17/2007	4.48864	FALSE	FALSE
	7/31/2007	4.07754	FALSE	FALSE
	1/23/2008	3.29584	FALSE	FALSE
MW-6	7/27/1998	ND<3.91202	FALSE	FALSE
	1/6/1999	ND<3.91202	FALSE	FALSE
	6/29/1999	ND<3.91202	FALSE	FALSE
	1/27/2000	4.07754	FALSE	FALSE
	7/17/2000	4.02535	FALSE	FALSE
	1/24/2001	ND<3.91202	FALSE	FALSE
	7/11/2001	ND<3.91202	FALSE	FALSE
	1/10/2002	ND<3.91202	FALSE	FALSE
	7/8/2002	ND<3.91202	FALSE	FALSE
	1/22/2003	ND<3.91202	FALSE	FALSE
	7/7/2003	3.93183	FALSE	FALSE
	1/22/2004	ND<3.91202	FALSE	FALSE
	7/12/2004	ND<3.91202	FALSE	FALSE
	1/26/2005	ND<3.91202	FALSE	FALSE
	7/14/2005	ND<3.91202	FALSE	FALSE
	1/25/2006	ND<3.91202	FALSE	FALSE
	7/13/2006	ND<3.91202	FALSE	FALSE
	1/17/2007	2.56495	FALSE	FALSE
	7/31/2007	0.993252	FALSE	FALSE
	1/23/2008	4.06044	FALSE	FALSE

Laboratory Results

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#: 6009

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

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

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #1	Well #3	Well #4	Well #6	Well #9	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.8	5.8	5.2	4.7	4.5	01/23/08	RJH	SM4500HB
Total Alkalinity, mg/l	1.0	1.0	--- U	2	--- U	--- U	36	01/23/08	TRB	SM2320B
Chloride, mg/l	5.0	5.0	9	40	5	5	12	01/25/08	MDM	SM4500-CLB
Total Dissolved Residue, mg/l	1.0	1.0	54	44	62	72	117	01/24/08	TRB	SM2540C
Sulfate, mg/l	5.0	250.0	--- U	7.7 J	19.3 J	27.0 J	30.0 J	01/28/08	TRB	SM4500-SO4
Antimony, ug/l	0.05	6.0	0.1 J	--- U	0.1 J	--- U	--- U	01/28/08	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	--- U	0.6 J	3.2 J	1.1 J	1.4 J	01/28/08	CMF	EPA200.8
Barium, ug/l	0.34	100.0	14.6 J	32.4 J	33.7 J	50.7 J	64.4 J	01/28/08	CMF	EPA200.8
Beryllium, ug/l	0.17	1.0	0.1 J	--- U	--- U	0.1 J	0.1 J	01/28/08	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	--- U	0.1 J	0.1 J	0.2 J	0.2 J	01/28/08	CMF	EPA200.8
Cobalt, ug/l	2.53	10.0	0.9 J	--- U	0.6 J	0.6 J	20	01/28/08	CMF	EPA200.8
Copper, ug/l	2.24	10.0	0.6 J	0.5 J	1.3 J	0.4 J	0.4 J	01/28/08	CMF	EPA200.8
Total Chromium, ug/l	1.38	10.0	0.4 J	0.4 J	0.5 J	--- U	--- U	01/28/08	CMF	EPA200.8
Iron, ug/l	12.0	300.0	1221	904	9335	2239	4998	02/08/08	ADD	SM3111B
Manganese, ug/l	0.50	50.0	12 J	11 J	63	55	1459	02/05/08	LFJ	EPA200.7
Lead, ug/l	0.07	10.0	0.6 J	0.3 J	0.5 J	1.3 J	--- U	01/28/08	CMF	EPA200.8
Mercury, ug/l	0.13	0.20	--- U	--- U	--- U	--- U	0.11 J	01/28/08	CMF	EPA200.8
Nickel, ug/l	1.35	50.0	1.0 J	--- U	0.7 J	0.8 J	2.7 J	01/28/08	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	--- U	0.6 J	0.7 J	0.4 J	01/28/08	CMF	EPA200.8
Silver, ug/l	2.32	10.0	--- U	--- U	--- U	--- U	--- U	01/28/08	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U	--- U	--- U	0.3 J	01/28/08	CMF	EPA200.8
Vanadium, ug/l	1.21	25.0	1.9 J	1.3 J	3.9 J	1.2 J	1.0 J	01/28/08	CMF	EPA200.8
Zinc, ug/l	1.86	10.0	4.9 J	27	4.9 J	58	8.3 J	01/28/08	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	85	46	114	121	214	01/23/08	RJH	SM2510B
Temperature, °C			17	11	13	16	16	01/23/08	RJH	SM2550B
Static Water Level, feet			19.02	5.02	5.25	13.29	5.33	01/23/08	RJH	
Well Depth, feet			38.94	15.82	15.92	16.96	21.82	01/23/08	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#: 6009

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

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

REVIEWED BY:

PARAMETERS	MDL	SWSL	Well #11	Well #12	SW-1	SW-2	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.0	4.8	7.9	6.3	01/23/08	RJH	SM4500HB
Total Alkalinity, mg/l	1.0	1.0	--- U	--- U			01/23/08	TRB	SM2320B
Chloride, mg/l	5.0	5.0	20	54			01/25/08	MDM	SM4500-CLB
Total Dissolved Residue, mg/l	1.0	1.0	41	73			01/24/08	TRB	SM2540C
Sulfate, mg/l	5.0	250.0	--- U	--- U			01/28/08	TRB	SM4500-SO4E
Antimony, ug/l	0.05	6.0	0.3 J	0.4 J	--- U	0.1 J	01/28/08	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	0.7 J	0.9 J	1.0 J	1.7 J	01/28/08	CMF	EPA200.8
Barium, ug/l	0.04	100.0	18.8 J	69.3 J	32.0 J	96.9 J	01/28/08	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0	0.1 J	0.1 J	--- U	--- U	01/28/08	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	0.1 J	0.3 J	--- U	--- U	01/28/08	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0	--- U	0.8 J	--- U	0.7 J	01/28/08	CMF	EPA200.8
Copper, ug/l	0.20	10.0	1.2 J	0.6 J	0.3 J	1.6 J	01/28/08	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0	--- U	--- U	--- U	4.1 J	01/28/08	CMF	EPA200.8
Iron, ug/l	12.0	300.0	928	172 J			02/08/08	ADD	SM3111B
Manganese, ug/l	0.50	50.0	16 J	7.1 J			02/05/08	LFJ	EPA200.7
Lead, ug/l	0.07	10.0	0.1 J	0.1 J	0.1 J	1.2 J	01/28/08	CMF	EPA200.8
Mercury, ug/l	0.13	0.20	--- U				01/28/08	CMF	EPA200.8
Mercury, ug/l	0.13	0.20		0.17 J			02/07/08	ADD	EPA245.1
Nickel, ug/l	0.66	50.0	--- U	1.3 J	--- U	2.0 J	01/28/08	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	1.2 J	--- U	0.4 J	01/28/08	CMF	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U	--- U	01/28/08	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U	--- U	--- U	01/28/08	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0	1.4 J	0.9 J	0.6 J	4.1 J	01/28/08	CMF	EPA200.8
Zinc, ug/l	0.20	10.0	3.6 J	3.3 J	3.7 J	5.2 J	01/28/08	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	67	137	139	565	01/23/08	RJH	SM2510B
Temperature, °C			17	19	8	8	01/23/08	RJH	SM2550B
Static Water Level, feet			13.56	16.43			01/23/08	RJH	
Well Depth, feet			35.61	38.39			01/23/08	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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6009

ANALYST: MAO
DATE COLLECTED: 01/23/08
DATE ANALYZED: 01/28/08
DATE REPORTED: 02/08/08

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #4	Well #6	Well #9	Well #11	Well #12
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	0.30 J	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	--- U	--- U	--- U	1.40 J	1.90 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	0.30 J	--- U	--- U	--- U	0.20 J
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	0.40 J	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	0.40 J	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	0.20 J	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6009

ANALYST: MAO
DATE COLLECTED: 01/23/08
DATE ANALYZED: 01/28/08
DATE REPORTED: 02/08/08

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	SW-1	SW-2
1. Chloromethane	0.18	1.0	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U
7. Acetone	1.21	100.0	--- U	9.50 J
8. Iodomethane	0.12	10.0	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	1.40 J
16. Bromochloromethane	0.11	3.0	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- 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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6009

ANALYST: MAO
DATE COLLECTED: 01/23/08
DATE ANALYZED: 01/28/08
DATE REPORTED: 02/08/08

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #1	Well #3
1. Chloromethane	0.18	1.0	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U
7. Acetone	1.21	100.0	--- U	1.30 J
8. Iodomethane	0.12	10.0	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U
48. Acrolein	5.46	50.0	--- 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 (OLD)
COUNTY OF LENOIR
MR. TOM MILLER
P.O. BOX 756
KINSTON, NC 28502

CLIENT ID: 6009

ANALYST: MAO
DATE COLLECTED: 01/23/08
DATE ANALYZED: 01/28/08
DATE REPORTED: 02/08/08

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Well #1	Well #3
49. Allyl Chloride	0.17	10.0	--- U	--- U
50. Chloroprene	0.16	20.0	--- U	--- U
51. 1,3-Dichlorobenzene	0.13	5.0	--- U	--- U
52. Dichlorodifluoromethane	0.16	5.0	--- U	--- U
53. 1,3-Dichloropropane	0.12	1.0	--- U	--- U
54. 2,2-Dichloropropane	0.18	15.0	--- U	--- U
55. 1,1-Dichloropropene	0.13	5.0	--- U	--- U
56. Ethyl Methacrylate	0.14	10.0	--- U	--- U
57. Hexachlorobutadiene	0.22	10.0	--- U	--- U
58. Isobutyl Alcohol	5.23	100.0	--- U	--- U
59. Methacrylonitrile	1.64	100.0	--- U	--- U
60. Methyl Methacrylate	0.10	30.0	--- U	--- U
61. Naphthalene	0.13	10.0	--- U	--- U
62. Propionitrile	1.60	150.0	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.11	10.0	--- U	--- U
64. Acetonitrile	5.96	50.0	--- 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
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ID#: 6009 A

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

DATE COLLECTED: 01/23/08
DATE REPORTED : 02/11/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	Trip Blank	Equipment Blank	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.05	6.0		0.1 J	01/28/08	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0		--- U	01/28/08	CMF	EPA200.8
Barium, ug/l	0.04	100.0		7.3 J	01/28/08	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0		--- U	01/28/08	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0		--- U	01/28/08	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0		--- U	01/28/08	CMF	EPA200.8
Copper, ug/l	0.20	10.0		0.3 J	01/28/08	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0		--- U	01/28/08	CMF	EPA200.8
Iron, ug/l	12.0	300.0		57 J	02/08/08	ADD	SM3111B
Manganese, ug/l	0.50	50.0		0.77 J	02/06/08	LFJ	EPA200.7
Lead, ug/l	0.07	10.0		--- U	01/28/08	CMF	EPA200.8
Mercury, ug/l	0.13	0.20		--- U	01/28/08	CMF	EPA200.8
Nickel, ug/l	1.35	50.0		--- U	01/28/08	CMF	EPA200.8
Selenium, ug/l	0.35	10.0		--- U	01/28/08	CMF	EPA200.8
Silver, ug/l	0.52	10.0		--- U	01/28/08	CMF	EPA200.8
Thallium, ug/l	0.07	5.0		--- U	01/28/08	CMF	EPA200.8
Vanadium, ug/l	1.21	25.0		--- U	01/28/08	CMF	EPA200.8
Zinc, ug/l	1.86	10.0		--- U	01/28/08	CMF	EPA200.8

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

CLIENT ID: 6009 A

ANALYST: MAO
DATE COLLECTED: 01/23/08
DATE ANALYZED: 01/24/08
DATE REPORTED: 02/11/08

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Trip Blank	Equipment Blank
1. Chloromethane	0.18	1.0	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U
7. Acetone	1.21	100.0	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U
48. Acrolein	5.46	50.0	--- U	--- U

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LANDFILL APPENDIX II
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Trip Blank	Equipment Blank
49. Allyl Chloride	0.17	10.0	--- U	--- U
50. Chloroprene	0.16	20.0	--- U	--- U
51. 1,3-Dichlorobenzene	0.13	5.0	--- U	--- U
52. Dichlorodifluoromethane	0.16	5.0	--- U	--- U
53. 1,3-Dichloropropane	0.12	1.0	--- U	--- U
54. 2,2-Dichloropropane	0.18	15.0	--- U	--- U
55. 1,1-Dichloropropene	0.13	5.0	--- U	--- U
56. Ethyl Methacrylate	0.14	10.0	--- U	--- U
57. Hexachlorobutadiene	0.22	10.0	--- U	--- U
58. Isobutyl Alcohol	5.23	100.0	--- U	--- U
59. Methacrylonitrile	1.64	100.0	--- U	--- U
60. Methyl Methacrylate	0.10	30.0	--- U	--- U
61. Naphthalene	0.13	10.0	--- U	--- U
62. Propionitrile	1.60	150.0	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.11	10.0	--- U	--- U
64. Acetonitrile	5.96	50.0	--- U	8.80 J

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