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., 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)
Hertford County Closed Unlined MSWLF	227 Mount Moriah Road Winton, NC 27986	46-01	.0500	December 16, 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.
☐ 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 Date 5/29/09

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007

Semi-Annual Water Sampling and Analysis Report

Prepared for

Hertford County Closed Unlined MSWLF
Winton, North Carolina

December 2008

Permit Number: 46-01
MESCO Project Number: G080012.0

Completed on May 29, 2009

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.

May 29, 2009

Mr. Ervin Lane
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Groundwater Sampling and Analysis Semi Annual Report
Hertford County Closed Sanitary Landfill
Permit No. 46-01
MESCO Project No. G08012.0

Dear Mr. Lane:

Introduction

The Hertford County Closed Unlined MSWLF located near Winton NC, which operated under permit #46-01 is required to submit semi-annual compliance reports as a condition of 15A NCAC 13B .0500. This sampling event was conducted on December 16, 2008 according to the semi-annual monitoring schedule prescribed by the NC Solid Waste Section rules/regulations.

The assessment monitoring program currently consists of 13 groundwater and 4 surface water sampling locations. This report includes a summary of field procedures, laboratory analysis, tables and graphs of current/historical data, single-day potentiometric map with flow directions/rates, and the complete laboratory analytical report.

Sampling Procedure

Environment 1, Inc. (E1) of Greenville, NC performed both the collection of water samples and the laboratory analysis for this sampling event. Water samples were collected from all 13 groundwater monitoring wells (MW-A through MW-M) and all four surface waters (SW-1 through SW-4). All monitoring locations are shown upon the enclosed single-day potentiometric map.

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

Field and Laboratory Results

All of the groundwater samples were reportedly analyzed in the laboratory for the complete Appendix I list of volatile organic compounds (VOCs) per EPA 8260B and the complete Appendix I list of metals via EPA 200.8. In addition all of the samples were analyzed for mercury through method EPA 200.8. Quality control measures were also implemented which included submittal and subsequent quantification of a trip (TB) and equipment (EB) blanks.

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PO Box 828, Morehead City, NC 28557 (252) 726-9481
PO Box 349, Boone, North Carolina 28607 (828) 262-1767

The field parameters are included in the laboratory analysis report and the data appears to be generally consistent relative to each other and congruent with data historically reported. All water samples were analyzed utilizing the stringent Method Detection Limits (MDL) with reference to the Solid Waste Section detection limits (SWSL) values current as of the sampling event. All detected constituents were referenced to the Groundwater Protection Standards (GWP) and compared to the North Carolina Groundwater Standards (NCGW2L) or the North Carolina Surface Water Standards (NCSW2B) for regulatory exceedance. The results are shown in the enclosed tables titled "Detection Scan".

The following table 1 summarizes all of the VOCs detected above the SWSL or NCGW2L. Table 2 and 3 summarize all of the metals detected in exceedance of their respective NCGW2L or NCSW2B Standard.

Table 1. Groundwater and Surface Water Detection Summary (VOCs)

	Aromatics			**CAH's**					**Cumulative**
Monitoring Location	Benzene	1,4-DCB	Chlorobenzene	PCE	TCE	EDC	VCM	cis-1,2-DCE	Total
NCGW2L	1	1.4	50	0.7	2.8	0.38	70	0.15	-
MW-A	**1.8**	1.1	4.5				**0.4**[j]		7.8
MW-B(Upgradient)					**4.6**		**7.3**		11.9
MW-D							**0.7**[j]		0.7
MW-E	**2.5**	**4**	21.3				**3.1**		30.9
MW-F	**3**	**4.2**	15.2	**1.5**	1.8	**0.4**[j]	**13.9**	48.8	88.8
MW-G(Upgradient)							***1.6***		1.6
MW-H	**1.8**	**2.2**	8.3				**4.1**	12.5	28.9
MW-I	**3.3**	***4.7***	18.6				**18.8**	8.8	54.2
MW-J				**0.8**[j]			***4.1***		4.9
MW-L							**0.5**[j]		0.5
MW-M				***1.2***					1.2
Total	12.4	16.2	67.9	3.5	5.4	0.4	54.5	70.1	231.4

BOLD indicates detected in exceedance of NCGW2L Standard. *Italicized* indicates found above own respective historical identified range. "j" <SWSL therefore estimated concentration
All concentration (uq/L)

Table 2. Groundwater Exceedance Summary (Total Metals)

Well	Barium	Cadmium	Nickel	Mercury
NCGW2L	2000	1.75	100	1.1
MW-F		3		
MW-H	2475		*211*	
MW-I		*2*		*3.3*
Total	2475	5	211	3.3

Italicized indicates found above own respective historical identified range. "j" <SWSL therefore estimated concentration . All concentration (uq/L)

Table 3. Surface Water Exceedance Summary (VOCs and Total Metals)

Surface Water	Silver
NCSW2B	0.06
SW-1 (upstream)	*0.1*[j]
SW-3 (upstream)	0.1[j]
Total	0.2

Italicized indicates found above own respective historical identified range. "j" <SWSL therefore estimated concentration All concentration (uq/L)

Metals in concentrations above the SWSL were detected within all of the monitoring locations. There were a total of five instances of metals detected in exceedance of the NCGW2L Standard. Concentrations of cadmium and mercury were found in exceedance of the NCGW2L and outside of their own respective identified range within MW-I. Downgradient well MW-H was also found to contain levels of barium and nickel in exceedance of the NCGW2L with nickel detected in unprecedented levels within this specific location.

Water samples obtained from surface water monitoring locations SW-1 and SW3 were found to contain concentrations of silver in exceedance of the NCSW2B Action Level (AL) for a Class C water body. These low level detections are considered background as both SW-1 and SW-3 are located upstream of the facility.

Quantifiable concentrations of VOCs continue to be detected within all of the monitoring wells with the exception of MW-C and MW-K. The additional numbers of low level VOC detections during the latest four events is attributed to the reduction of the reporting limits to the MDL and should not be misconstrued as a recent release. All of the monitoring locations that were found to contain VOCs contain either a mixture of both dissolved phase aromatic hydrocarbons and chlorinated aliphatic hydrocarbons (CAH) or only CAH's. The often final biodegradation byproduct vinyl chloride continues to be the most prevalent VOC detected upon the site with the parameter found above the NCGW2L within all of the wells containing quantifiable VOCs with the exception of cross-gradient MW-M. Generally all of the detected VOCs are not grossly elevated, typical of contaminants commonly found in groundwater at MSWLF facilities. The source is likely attributed to leachate and or landfill gas (LFG) that originated from the closed unlined MSWLF. VOCs continue to be absent from water samples collected from any surface water monitoring site. Natural attenuation is apparent as evidenced by the decrease in parent compounds and an increase in intermediate and daughter products. Downgradient wells (MW-I, MW-J), crossgradient (MW-M) as well as upgradient (MW-G) were found to contain VOCs in concentrations in exceedance of the NCGW2L and outside of their own respective historical identifiable range.

An active Gas Control Collection System (GCCS) equipped with a blower attached to several gas extraction wells along the west perimeter of the closed landfill continues to operate. The active GCCS has reduced the lateral migration of LFG as evidenced by the reduction of methane gas detected within MW-F and methane probes west of the property boundary. By decreasing the lateral migration of the LFG the VOC concentrations within the upper aquifer may also decrease over time along the western property boundary.

Groundwater and Surface Water Characterization

MESCO completed and enclosed the single-day potentiometric map from groundwater elevation data obtained by E1 during this event. Groundwater flow within the surficial aquifer remains in a general northwest direction. Flow rates were also calculated based upon the equipotential contours and are included in the attached table. The flow rates ranged from approximately 1ft./yr. (MW-C) to 163 ft./yr. (MW-H) averaging approximately 34 ft./yr. The flow directions and gradients are consistent with historical observations, showing no changes that would result in a different interpretation of the groundwater system or hinder the effectiveness of the current monitoring network.

Conclusion

The results of the latest semi-annual sampling event indicate that VOCs continue to persist within the surficial aquifer up, down, and cross gradient from the closed MSWLF. Due to the reduction of detection limits, low levels of VOCs have now been detected further from the waste boundary than previously known. LFG is known to be migrating within the sandy soils beneath the facility and may be attributing to the lower level dissolved VOCs within the groundwater especially in the wells located upgradient of the waste boundary. However, Potecasi Creek which serves as the downgradient local discharge feature continues to not be impacted as indicated by the complete lack of VOCs detected within all surface water samples. The facility is located in a rural setting and the residents in

closest proximity to the property boundary are now connected to municipal water which should effectively limit the potential of human exposure to the groundwater.

The Hertford County Closed Landfill will continue to be monitored and is scheduled to be sampled for the Appendix I list of parameters again in June 2009. The active GCCS will continue operation and any effect it may have on the groundwater quality will continue to be evaluated. If you have any questions or comments regarding this report, please contact me by phone at (919) 772-5393 or by email at jpfohl@mesco.com.

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

Jonathan Pfohl
Environmental Specialist

Enclosures
cc: Mr. Melvin Nichols
Hertford County

Detection Scan All Detections above SWSL, GWP, NCSW2B, or NCGW2L
Hertford County Closed Unlined MSWLF

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	NCGW 2L [4]	NCSW2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-A	1,4-Dichlorobenzene	12/16/08	1.1	ug/l	0.21	1	1.4				
MW-A	Barium	12/16/08	149	ug/l	0.11	100	2000				
MW-A	**Benzene**	**12/16/08**	**1.8**	**ug/l**	**0.16**	**1**	**1**			**0.8**	**Leachate &/or LFG**
MW-A	Chlorobenzene	12/16/08	4.5	ug/l	0.13	3	50				
MW-A	**Cobalt**	**12/16/08**	**102**	**ug/l**	**0.03**	**10**			**70**	**32**	
MW-A	**Vanadium**	**12/16/08**	**8.5[j]**	**ug/l**	**0.07**	**25**			**3.5**	**5**	
MW-A	**Vinyl Chloride**	**12/16/08**	**0.4[j]**	**ug/l**	**0.34**	**1**	**0.015**			**0.385**	**Leachate &/or LFG**
MW-A	Zinc	12/16/08	34	ug/l	0.04	10	1050				
MW-B	Barium	12/16/08	130	ug/l	0.11	100	2000				
MW-B	Cobalt	12/16/08	44	ug/l	0.03	10			70		
MW-B	**Trichloroethene**	**12/16/08**	**4.6**	**ug/l**	**0.13**	**1**	**2.8**			**1.8**	**Leachate &/or LFG**
MW-B	**Vanadium**	**12/16/08**	**6.2[j]**	**ug/l**	**0.07**	**25**			**3.5**	**2.7**	
MW-B	**Vinyl Chloride**	**12/16/08**	**7.3**	**ug/l**	**0.34**	**1**	**0.015**			**7.285**	**Leachate &/or LFG**
MW-B	Zinc	12/16/08	21	ug/l	0.04	10	1050				
MW-C	Barium	12/16/08	116	ug/l	0.11	100	2000				
MW-C	Beryllium	12/16/08	1.9	ug/l	0.06	1			2		
MW-C	**Vanadium**	**12/16/08**	**19.9[j]**	**ug/l**	**0.07**	**25**			**3.5**	**16.4**	
MW-C	Zinc	12/16/08	32	ug/l	0.04	10	1050				
MW-D	Barium	12/16/08	194	ug/l	0.11	100	2000				
MW-D	Beryllium	12/16/08	1.6	ug/l	0.06	1			2		
MW-D	Chromium	12/16/08	21	ug/l	0.11	10	50				
MW-D	Cobalt	12/16/08	39	ug/l	0.03	10			70		
MW-D	**Vanadium**	**12/16/08**	**34**	**ug/l**	**0.07**	**25**			**3.5**	**30.5**	
MW-D	**Vinyl Chloride**	**12/16/08**	**0.7[j]**	**ug/l**	**0.34**	**1**	**0.015**			**0.685**	**Leachate &/or LFG**
MW-D	Zinc	12/16/08	82	ug/l	0.04	10	1050				
MW-E	**1,4-Dichlorobenzene**	**12/16/08**	**4**	**ug/l**	**0.21**	**1**	**1.4**			**2.6**	**Leachate &/or LFG**
MW-E	Arsenic	12/16/08	11	ug/l	0.07	10	50				
MW-E	Barium	12/16/08	173	ug/l	0.11	100	2000				
MW-E	**Benzene**	**12/16/08**	**2.5**	**ug/l**	**0.16**	**1**	**1**			**1.5**	**Leachate &/or LFG**
MW-E	Chlorobenzene	12/16/08	21.3	ug/l	0.13	3	50				
MW-E	**Cobalt**	**12/16/08**	**85**	**ug/l**	**0.03**	**10**			**70**	**15**	
MW-E	**Thallium**	**12/16/08**	**0.3[j]**	**ug/l**	**0.04**	**5**			**0.28**	**0.02**	
MW-E	**Vanadium**	**12/16/08**	**21.7[j]**	**ug/l**	**0.07**	**25**			**3.5**	**18.2**	
MW-E	**Vinyl Chloride**	**12/16/08**	**3.1**	**ug/l**	**0.34**	**1**	**0.015**			**3.085**	**Leachate &/or LFG**
MW-E	Zinc	12/16/08	77	ug/l	0.04	10	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	NCGW 2L [4]	NCSW2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-F	**1,2-Dichloroethane**	**12/16/08**	**0.4[j]**	**ug/l**	**0.12**	**1**	**0.38**			**0.02**	**Leachate &/or LFG**
MW-F	**1,4-Dichlorobenzene**	**12/16/08**	**4.2**	**ug/l**	**0.21**	**1**	**1.4**			**2.8**	**Leachate &/or LFG**
MW-F	Barium	12/16/08	519	ug/l	0.11	100	2000				
MW-F	**Benzene**	**12/16/08**	**3**	**ug/l**	**0.16**	**1**	**1**			**2**	**Leachate &/or LFG**
MW-F	**Cadmium**	**12/16/08**	**3**	**ug/l**	**0.04**	**1**	**1.75**			**1.25**	**Natural**
MW-F	Chlorobenzene	12/16/08	15.2	ug/l	0.13	3	50				
MW-F	Cis-1,2-Dichloroethene	12/16/08	48.8	ug/l	0.14	5	70				
MW-F	**Cobalt**	**12/16/08**	**167**	**ug/l**	**0.03**	**10**			**70**	**97**	
MW-F	Mercury	12/16/08	0.55	ug/l	0.13	0.2	1.1				
MW-F	**Tetrachloroethene**	**12/16/08**	**1.5**	**ug/l**	**0.16**	**1**	**0.7**			**0.8**	**Leachate &/or LFG**
MW-F	**Thallium**	**12/16/08**	**0.8[j]**	**ug/l**	**0.04**	**5**			**0.28**	**0.52**	
MW-F	Trichloroethene	12/16/08	1.8	ug/l	0.13	1	2.8				
MW-F	**Vanadium**	**12/16/08**	**6.1[j]**	**ug/l**	**0.07**	**25**			**3.5**	**2.6**	
MW-F	**Vinyl Chloride**	**12/16/08**	**13.9**	**ug/l**	**0.34**	**1**	**0.015**			**13.885**	**Leachate &/or LFG**
MW-F	Zinc	12/16/08	462	ug/l	0.04	10	1050				
MW-G	Barium	12/16/08	124	ug/l	0.11	100	2000				
MW-G	**Vanadium**	**12/16/08**	**5.5[j]**	**ug/l**	**0.07**	**25**			**3.5**	**2**	
MW-G	**Vinyl Chloride**	**12/16/08**	**1.6**	**ug/l**	**0.34**	**1**	**0.015**			**1.585**	**Leachate &/or LFG**
MW-G	Zinc	12/16/08	31	ug/l	0.04	10	1050				
MW-H	**1,4-Dichlorobenzene**	**12/16/08**	**2.2**	**ug/l**	**0.21**	**1**	**1.4**			**0.8**	**Leachate &/or LFG**
MW-H	**Barium**	**12/16/08**	**2475**	**ug/l**	**0.11**	**100**	**2000**			**475**	**Natural**
MW-H	**Benzene**	**12/16/08**	**1.8**	**ug/l**	**0.16**	**1**	**1**			**0.8**	**Leachate &/or LFG**
MW-H	Chlorobenzene	12/16/08	8.3	ug/l	0.13	3	50				
MW-H	Cis-1,2-Dichloroethene	12/16/08	12.5	ug/l	0.14	5	70				
MW-H	**Cobalt**	**12/16/08**	**532**	**ug/l**	**0.03**	**10**			**70**	**462**	
MW-H	**Nickel**	**12/16/08**	**211**	**ug/l**	**0.06**	**50**	**100**			**111**	**Natural**
MW-H	**Thallium**	**12/16/08**	**1[j]**	**ug/l**	**0.04**	**5**			**0.28**	**0.72**	
MW-H	**Vinyl Chloride**	**12/16/08**	**4.1**	**ug/l**	**0.34**	**1**	**0.015**			**4.085**	**Leachate &/or LFG**
MW-I	**1,4-Dichlorobenzene**	**12/16/08**	**4.7**	**ug/l**	**0.21**	**1**	**1.4**			**3.3**	**Leachate &/or LFG**
MW-I	Barium	12/16/08	244	ug/l	0.11	100	2000				
MW-I	**Benzene**	**12/16/08**	**3.3**	**ug/l**	**0.16**	**1**	**1**			**2.3**	**Leachate &/or LFG**
MW-I	**Cadmium**	**12/16/08**	**2**	**ug/l**	**0.04**	**1**	**1.75**			**0.25**	**Natural**
MW-I	Chlorobenzene	12/16/08	18.6	ug/l	0.13	3	50				
MW-I	Cis-1,2-Dichloroethene	12/16/08	8.8	ug/l	0.14	5	70				
MW-I	Cobalt	12/16/08	45	ug/l	0.03	10			70		
MW-I	**Mercury**	**12/16/08**	**3.3**	**ug/l**	**0.13**	**0.2**	**1.1**			**2.2**	**Leachate &/or LFG**
MW-I	**Vanadium**	**12/16/08**	**15.6[j]**	**ug/l**	**0.07**	**25**			**3.5**	**12.1**	
MW-I	**Vinyl Chloride**	**12/16/08**	**18.8**	**ug/l**	**0.34**	**1**	**0.015**			**18.785**	**Leachate &/or LFG**
MW-I	Zinc	12/16/08	242	ug/l	0.04	10	1050				
MW-J	Cobalt	12/16/08	13	ug/l	0.03	10			70		
MW-J	**Tetrachloroethene**	**12/16/08**	**0.8[j]**	**ug/l**	**0.16**	**1**	**0.7**			**0.1**	**Leachate &/or LFG**
MW-J	**Vanadium**	**12/16/08**	**11.6[j]**	**ug/l**	**0.07**	**25**			**3.5**	**8.1**	
MW-J	**Vinyl Chloride**	**12/16/08**	**4.1**	**ug/l**	**0.34**	**1**	**0.015**			**4.085**	**Leachate &/or LFG**
MW-J	Zinc	12/16/08	28	ug/l	0.04	10	1050				
MW-K	Mercury	12/16/08	0.55	ug/l	0.01	0.2	1.1				
MW-K	**Vanadium**	**12/16/08**	**12.7[j]**	**ug/l**	**0.07**	**25**			**3.5**	**9.2**	
MW-K	Zinc	12/16/08	17	ug/l	0.04	10	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	NCGW 2L [4]	NCSW2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-L	Cobalt	12/16/08	36	ug/l	0.03	10			70		
MW-L	**Vanadium**	**12/16/08**	**13.1[j]**	**ug/l**	**0.07**	**25**			**3.5**	**9.6**	
MW-L	**Vinyl Chloride**	**12/16/08**	**0.5[j]**	**ug/l**	**0.34**	**1**	**0.015**			**0.485**	**Leachate &/or LFG**
MW-L	Zinc	12/16/08	109	ug/l	0.04	10	1050				
MW-M	Barium	12/16/08	106	ug/l	0.11	100	2000				
MW-M	Cobalt	12/16/08	26	ug/l	0.03	10			70		
MW-M	**Tetrachloroethene**	**12/16/08**	**1.2**	**ug/l**	**0.16**	**1**	**0.7**			**0.5**	**Leachate &/or LFG**
MW-M	**Vanadium**	**12/16/08**	**14.8[j]**	**ug/l**	**0.07**	**25**			**3.5**	**11.3**	
MW-M	Zinc	12/16/08	16	ug/l	0.04	10	1050				
SW-1	**Silver**	**12/16/08**	**0.1[j]**	**ug/l**	**0.04**	**10**		**0.06**		**0.04**	**Natural**
SW-1	Zinc	12/16/08	25	ug/l	0.04	10		50			
SW-2	Zinc	12/16/08	19	ug/l	0.04	10		50			
SW-3	Barium	12/16/08	187	ug/l	0.11	100		200000			
SW-3	Cobalt	12/16/08	13	ug/l	0.03	10		270			
SW-3	**Silver**	**12/16/08**	**0.1[j]**	**ug/l**	**0.04**	**10**		**0.06**		**0.04**	**Natural**
SW-3	Zinc	12/16/08	15	ug/l	0.04	10		50			
SW-4	Barium	12/16/08	233	ug/l	0.11	100		200000			

[1] Table only contains detected constituents detected above the SWSL, GWP, NCGW2L or NCSW2B Standards

[2] MDL = Method Detection Limit

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

[4] NCGW2L = North Carolina Ground Water 2L Standard (Current as of Sampling Event)

[5] NCSW2B = North Carolina Surface Water 2B Standard for Specific Stream Classification (Current as of Sampling Event)

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

[J] =The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture content.

LFG = Landfill Gas

NE = Not Established

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

Detection Scan All Detections Reported by Laboratory >MDL
Hertford County Closed Unlined MSWLF

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	NCGW 2L [4]	NCSW2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-A	1,1-Dichloroethane	12/16/08	0.9	ug/l	0.16	5	70				
MW-A	1,4-Dichlorobenzene	12/16/08	1.1	ug/l	0.21	1	1.4				
MW-A	Antimony	12/16/08	0.1	ug/l	0.08	6			1.4		
MW-A	Arsenic	12/16/08	4.8	ug/l	0.07	10	50				
MW-A	Barium	12/16/08	149	ug/l	0.11	100	2000				
MW-A	**Benzene**	**12/16/08**	**1.8**	**ug/l**	**0.16**	**1**	**1**			**0.8**	**Leachate &/or LFG**
MW-A	Beryllium	12/16/08	0.2	ug/l	0.06	1			2		
MW-A	Cadmium	12/16/08	0.5	ug/l	0.04	1	1.75				
MW-A	Chlorobenzene	12/16/08	4.5	ug/l	0.13	3	50				
MW-A	Chloroethane	12/16/08	0.5	ug/l	0.29	10	2800				
MW-A	Chromium	12/16/08	2.9	ug/l	0.11	10	50				
MW-A	Cis-1,2-Dichloroethene	12/16/08	0.4	ug/l	0.14	5	70				
MW-A	**Cobalt**	**12/16/08**	**102**	**ug/l**	**0.03**	**10**			**70**	**32**	
MW-A	Copper	12/16/08	5.8	ug/l	0.05	10	1000				
MW-A	Lead	12/16/08	2.9	ug/l	0.04	10	15				
MW-A	Mercury	12/16/08	0.11	ug/l	0.01	0.2	1.1				
MW-A	Nickel	12/16/08	4.2	ug/l	0.06	50	100				
MW-A	Selenium	12/16/08	1.6	ug/l	0.14	10	50				
MW-A	Silver	12/16/08	0.1	ug/l	0.04	10	18				
MW-A	Thallium	12/16/08	0.1	ug/l	0.04	5			0.28		
MW-A	**Vanadium**	**12/16/08**	**8.5[j]**	**ug/l**	**0.07**	**25**			**3.5**	**5**	
MW-A	**Vinyl Chloride**	**12/16/08**	**0.4[j]**	**ug/l**	**0.34**	**1**	**0.015**			**0.385**	**Leachate &/or LFG**
MW-A	Zinc	12/16/08	34	ug/l	0.04	10	1050				
MW-B	Arsenic	12/16/08	8	ug/l	0.07	10	50				
MW-B	Barium	12/16/08	130	ug/l	0.11	100	2000				
MW-B	Benzene	12/16/08	0.2	ug/l	0.16	1	1				
MW-B	Beryllium	12/16/08	0.2	ug/l	0.06	1			2		
MW-B	Cadmium	12/16/08	0.1	ug/l	0.04	1	1.75				
MW-B	Chlorobenzene	12/16/08	0.5	ug/l	0.13	3	50				
MW-B	Chromium	12/16/08	3.1	ug/l	0.11	10	50				
MW-B	Cis-1,2-Dichloroethene	12/16/08	2.8	ug/l	0.14	5	70				
MW-B	Cobalt	12/16/08	44	ug/l	0.03	10			70		
MW-B	Copper	12/16/08	1.7	ug/l	0.05	10	1000				
MW-B	Lead	12/16/08	1	ug/l	0.04	10	15				
MW-B	Nickel	12/16/08	10	ug/l	0.06	50	100				
MW-B	Selenium	12/16/08	0.6	ug/l	0.14	10	50				
MW-B	**Trichloroethene**	**12/16/08**	**4.6**	**ug/l**	**0.13**	**1**	**2.8**			**1.8**	**Leachate &/or LFG**
MW-B	**Vanadium**	**12/16/08**	**6.2[j]**	**ug/l**	**0.07**	**25**			**3.5**	**2.7**	
MW-B	**Vinyl Chloride**	**12/16/08**	**7.3**	**ug/l**	**0.34**	**1**	**0.015**			**7.285**	**Leachate &/or LFG**
MW-B	Zinc	12/16/08	21	ug/l	0.04	10	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	NCGW 2L [4]	NCSW2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-C	Antimony	12/16/08	0.3	ug/l	0.08	6			1.4		
MW-C	Arsenic	12/16/08	1.8	ug/l	0.07	10	50				
MW-C	Barium	12/16/08	116	ug/l	0.11	100	2000				
MW-C	Beryllium	12/16/08	1.9	ug/l	0.06	1			2		
MW-C	Cadmium	12/16/08	0.4	ug/l	0.04	1	1.75				
MW-C	Chromium	12/16/08	7.6	ug/l	0.11	10	50				
MW-C	Cobalt	12/16/08	9.7	ug/l	0.03	10			70		
MW-C	Copper	12/16/08	4	ug/l	0.05	10	1000				
MW-C	Lead	12/16/08	4.1	ug/l	0.04	10	15				
MW-C	Nickel	12/16/08	8	ug/l	0.06	50	100				
MW-C	Selenium	12/16/08	1	ug/l	0.14	10	50				
MW-C	Silver	12/16/08	0.1	ug/l	0.04	10	18				
MW-C	Thallium	12/16/08	0.1	ug/l	0.04	5			0.28		
MW-C	**Vanadium**	**12/16/08**	**19.9[j]**	**ug/l**	**0.07**	**25**			**3.5**	**16.4**	
MW-C	Zinc	12/16/08	32	ug/l	0.04	10	1050				
MW-D	1,1-Dichloroethane	12/16/08	0.3	ug/l	0.16	5	70				
MW-D	1,4-Dichlorobenzene	12/16/08	0.5	ug/l	0.21	1	1.4				
MW-D	Arsenic	12/16/08	5.4	ug/l	0.07	10	50				
MW-D	Barium	12/16/08	194	ug/l	0.11	100	2000				
MW-D	Benzene	12/16/08	0.6	ug/l	0.16	1	1				
MW-D	Beryllium	12/16/08	1.6	ug/l	0.06	1			2		
MW-D	Cadmium	12/16/08	0.5	ug/l	0.04	1	1.75				
MW-D	Chlorobenzene	12/16/08	0.4	ug/l	0.13	3	50				
MW-D	Chromium	12/16/08	21	ug/l	0.11	10	50				
MW-D	Cis-1,2-Dichloroethene	12/16/08	1.9	ug/l	0.14	5	70				
MW-D	Cobalt	12/16/08	39	ug/l	0.03	10			70		
MW-D	Copper	12/16/08	10	ug/l	0.05	10	1000				
MW-D	Lead	12/16/08	6.4	ug/l	0.04	10	15				
MW-D	Mercury	12/16/08	0.01	ug/l	0.01	0.2	1.1				
MW-D	Nickel	12/16/08	14.4	ug/l	0.06	50	100				
MW-D	Selenium	12/16/08	2	ug/l	0.14	10	50				
MW-D	Silver	12/16/08	0.1	ug/l	0.04	10	18				
MW-D	Tetrachloroethene	12/16/08	0.4	ug/l	0.16	1	0.7				
MW-D	Thallium	12/16/08	0.1	ug/l	0.04	5			0.28		
MW-D	**Vanadium**	**12/16/08**	**34**	**ug/l**	**0.07**	**25**			**3.5**	**30.5**	
MW-D	**Vinyl Chloride**	**12/16/08**	**0.7[j]**	**ug/l**	**0.34**	**1**	**0.015**			**0.685**	**Leachate &/or LFG**
MW-D	Zinc	12/16/08	82	ug/l	0.04	10	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	NCGW 2L [4]	NCSW2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-E	**1,4-Dichlorobenzene**	**12/16/08**	**4**	**ug/l**	**0.21**	**1**	**1.4**			**2.6**	**Leachate &/or LFG**
MW-E	Arsenic	12/16/08	11	ug/l	0.07	10	50				
MW-E	Barium	12/16/08	173	ug/l	0.11	100	2000				
MW-E	**Benzene**	**12/16/08**	**2.5**	**ug/l**	**0.16**	**1**	**1**			**1.5**	**Leachate &/or LFG**
MW-E	Beryllium	12/16/08	0.5	ug/l	0.06	1			2		
MW-E	Cadmium	12/16/08	0.8	ug/l	0.04	1	1.75				
MW-E	Chlorobenzene	12/16/08	21.3	ug/l	0.13	3	50				
MW-E	Chloroethane	12/16/08	0.9	ug/l	0.29	10	2800				
MW-E	Chromium	12/16/08	8.6	ug/l	0.11	10	50				
MW-E	Cis-1,2-Dichloroethene	12/16/08	0.7	ug/l	0.14	5	70				
MW-E	**Cobalt**	**12/16/08**	**85**	**ug/l**	**0.03**	**10**			**70**	**15**	
MW-E	Copper	12/16/08	7.7	ug/l	0.05	10	1000				
MW-E	Lead	12/16/08	5.4	ug/l	0.04	10	15				
MW-E	Mercury	12/16/08	0.02	ug/l	0.01	0.2	1.1				
MW-E	Nickel	12/16/08	9.4	ug/l	0.06	50	100				
MW-E	Selenium	12/16/08	0.8	ug/l	0.14	10	50				
MW-E	Silver	12/16/08	0.1	ug/l	0.04	10	18				
MW-E	**Thallium**	**12/16/08**	**0.3[j]**	**ug/l**	**0.04**	**5**			**0.28**	**0.02**	
MW-E	Toluene	12/16/08	0.2	ug/l	0.13	1	1000				
MW-E	**Vanadium**	**12/16/08**	**21.7[j]**	**ug/l**	**0.07**	**25**			**3.5**	**18.2**	
MW-E	**Vinyl Chloride**	**12/16/08**	**3.1**	**ug/l**	**0.34**	**1**	**0.015**			**3.085**	**Leachate &/or LFG**
MW-E	Zinc	12/16/08	77	ug/l	0.04	10	1050				
MW-F	1,1-Dichloroethane	12/16/08	4	ug/l	0.16	5	70				
MW-F	**1,2-Dichloroethane**	**12/16/08**	**0.4[j]**	**ug/l**	**0.12**	**1**	**0.38**			**0.02**	**Leachate &/or LFG**
MW-F	1,2-Dichloropropane	12/16/08	0.2	ug/l	0.17	1	0.51				
MW-F	**1,4-Dichlorobenzene**	**12/16/08**	**4.2**	**ug/l**	**0.21**	**1**	**1.4**			**2.8**	**Leachate &/or LFG**
MW-F	Antimony	12/16/08	0.3	ug/l	0.08	6			1.4		
MW-F	Arsenic	12/16/08	5.7	ug/l	0.07	10	50				
MW-F	Barium	12/16/08	519	ug/l	0.11	100	2000				
MW-F	**Benzene**	**12/16/08**	**3**	**ug/l**	**0.16**	**1**	**1**			**2**	**Leachate &/or LFG**
MW-F	Beryllium	12/16/08	0.6	ug/l	0.06	1			2		
MW-F	**Cadmium**	**12/16/08**	**3**	**ug/l**	**0.04**	**1**	**1.75**			**1.25**	**Natural**
MW-F	Chlorobenzene	12/16/08	15.2	ug/l	0.13	3	50				
MW-F	Chloroethane	12/16/08	0.9	ug/l	0.29	10	2800				
MW-F	Chromium	12/16/08	2.1	ug/l	0.11	10	50				
MW-F	Cis-1,2-Dichloroethene	12/16/08	48.8	ug/l	0.14	5	70				
MW-F	**Cobalt**	**12/16/08**	**167**	**ug/l**	**0.03**	**10**			**70**	**97**	
MW-F	Copper	12/16/08	6.3	ug/l	0.05	10	1000				
MW-F	Lead	12/16/08	3.6	ug/l	0.04	10	15				
MW-F	Mercury	12/16/08	0.55	ug/l	0.13	0.2	1.1				
MW-F	Methylene Chloride	12/16/08	0.2	ug/l	0.14	1	4.6				
MW-F	Nickel	12/16/08	13.3	ug/l	0.06	50	100				
MW-F	Selenium	12/16/08	0.9	ug/l	0.14	10	50				
MW-F	Silver	12/16/08	0.1	ug/l	0.04	10	18				
MW-F	**Tetrachloroethene**	**12/16/08**	**1.5**	**ug/l**	**0.16**	**1**	**0.7**			**0.8**	**Leachate &/or LFG**
MW-F	**Thallium**	**12/16/08**	**0.8[j]**	**ug/l**	**0.04**	**5**			**0.28**	**0.52**	
MW-F	Toluene	12/16/08	0.6	ug/l	0.13	1	1000				
MW-F	trans-1,2-Dichloroether	12/16/08	0.4	ug/l	0.13	5	100				
MW-F	Trichloroethene	12/16/08	1.8	ug/l	0.13	1	2.8				
MW-F	**Vanadium**	**12/16/08**	**6.1[j]**	**ug/l**	**0.07**	**25**			**3.5**	**2.6**	
MW-F	**Vinyl Chloride**	**12/16/08**	**13.9**	**ug/l**	**0.34**	**1**	**0.015**			**13.885**	**Leachate &/or LFG**
MW-F	Zinc	12/16/08	462	ug/l	0.04	10	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	NCGW 2L [4]	NCSW2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-G	Antimony	12/16/08	0.4	ug/l	0.08	6			1.4		
MW-G	Arsenic	12/16/08	1.3	ug/l	0.07	10	50				
MW-G	Barium	12/16/08	124	ug/l	0.11	100	2000				
MW-G	Beryllium	12/16/08	0.2	ug/l	0.06	1			2		
MW-G	Cadmium	12/16/08	0.1	ug/l	0.04	1	1.75				
MW-G	Chromium	12/16/08	1.2	ug/l	0.11	10	50				
MW-G	Cobalt	12/16/08	5.9	ug/l	0.03	10			70		
MW-G	Copper	12/16/08	1.1	ug/l	0.05	10	1000				
MW-G	Lead	12/16/08	0.8	ug/l	0.04	10	15				
MW-G	Mercury	12/16/08	0.02	ug/l	0.13	0.2	1.1				
MW-G	Nickel	12/16/08	9.5	ug/l	0.06	50	100				
MW-G	Selenium	12/16/08	0.5	ug/l	0.14	10	50				
MW-G	Silver	12/16/08	0.1	ug/l	0.04	10	18				
MW-G	Thallium	12/16/08	0.1	ug/l	0.04	5			0.28		
MW-G	**Vanadium**	**12/16/08**	**5.5[j]**	**ug/l**	**0.07**	**25**			**3.5**	**2**	
MW-G	**Vinyl Chloride**	**12/16/08**	**1.6**	**ug/l**	**0.34**	**1**	**0.015**			**1.585**	**Leachate &/or LFG**
MW-G	Zinc	12/16/08	31	ug/l	0.04	10	1050				
MW-H	1,1-Dichloroethane	12/16/08	1.7	ug/l	0.16	5	70				
MW-H	1,2-Dichlorobenzene	12/16/08	0.2	ug/l	0.13	5	620				
MW-H	**1,4-Dichlorobenzene**	**12/16/08**	**2.2**	**ug/l**	**0.21**	**1**	**1.4**			**0.8**	**Leachate &/or LFG**
MW-H	Acetone	12/16/08	1.4	ug/l	1.21	100	700				
MW-H	Antimony	12/16/08	0.1	ug/l	0.08	6			1.4		
MW-H	Arsenic	12/16/08	3	ug/l	0.07	10	50				
MW-H	**Barium**	**12/16/08**	**2475**	**ug/l**	**0.11**	**100**	**2000**			**475**	**Natural**
MW-H	**Benzene**	**12/16/08**	**1.8**	**ug/l**	**0.16**	**1**	**1**			**0.8**	**Leachate &/or LFG**
MW-H	Beryllium	12/16/08	0.1	ug/l	0.06	1			2		
MW-H	Cadmium	12/16/08	0.1	ug/l	0.04	1	1.75				
MW-H	Chlorobenzene	12/16/08	8.3	ug/l	0.13	3	50				
MW-H	Chloroethane	12/16/08	0.9	ug/l	0.29	10	2800				
MW-H	Cis-1,2-Dichloroethene	12/16/08	12.5	ug/l	0.14	5	70				
MW-H	**Cobalt**	**12/16/08**	**532**	**ug/l**	**0.03**	**10**			**70**	**462**	
MW-H	Copper	12/16/08	0.9	ug/l	0.05	10	1000				
MW-H	Lead	12/16/08	0.1	ug/l	0.04	10	15				
MW-H	Mercury	12/16/08	0.02	ug/l	0.13	0.2	1.1				
MW-H	**Nickel**	**12/16/08**	**211**	**ug/l**	**0.06**	**50**	**100**			**111**	**Natural**
MW-H	Selenium	12/16/08	0.5	ug/l	0.14	10	50				
MW-H	Silver	12/16/08	0.1	ug/l	0.04	10	18				
MW-H	**Thallium**	**12/16/08**	**1[j]**	**ug/l**	**0.04**	**5**			**0.28**	**0.72**	
MW-H	Trichloroethene	12/16/08	0.3	ug/l	0.13	1	2.8				
MW-H	Vanadium	12/16/08	2.5	ug/l	0.07	25			3.5		
MW-H	**Vinyl Chloride**	**12/16/08**	**4.1**	**ug/l**	**0.34**	**1**	**0.015**			**4.085**	**Leachate &/or LFG**
MW-H	Zinc	12/16/08	6.8	ug/l	0.04	10	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	NCGW 2L [4]	NCSW2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-I	1,1-Dichloroethane	12/16/08	1.5	ug/l	0.16	5	70				
MW-I	1,2-Dichlorobenzene	12/16/08	0.2	ug/l	0.13	5	620				
MW-I	1,2-Dichloropropane	12/16/08	0.2	ug/l	0.17	1	0.51				
MW-I	**1,4-Dichlorobenzene**	**12/16/08**	**4.7**	**ug/l**	**0.21**	**1**	**1.4**			**3.3**	**Leachate &/or LFG**
MW-I	Antimony	12/16/08	0.1	ug/l	0.08	6			1.4		
MW-I	Arsenic	12/16/08	4.8	ug/l	0.07	10	50				
MW-I	Barium	12/16/08	244	ug/l	0.11	100	2000				
MW-I	**Benzene**	**12/16/08**	**3.3**	**ug/l**	**0.16**	**1**	**1**			**2.3**	**Leachate &/or LFG**
MW-I	Beryllium	12/16/08	0.7	ug/l	0.06	1			2		
MW-I	**Cadmium**	**12/16/08**	**2**	**ug/l**	**0.04**	**1**	**1.75**			**0.25**	**Natural**
MW-I	Chlorobenzene	12/16/08	18.6	ug/l	0.13	3	50				
MW-I	Chloroethane	12/16/08	0.5	ug/l	0.29	10	2800				
MW-I	Chromium	12/16/08	7.3	ug/l	0.11	10	50				
MW-I	Cis-1,2-Dichloroethene	12/16/08	8.8	ug/l	0.14	5	70				
MW-I	Cobalt	12/16/08	45	ug/l	0.03	10			70		
MW-I	Copper	12/16/08	5.1	ug/l	0.05	10	1000				
MW-I	Lead	12/16/08	4.8	ug/l	0.04	10	15				
MW-I	**Mercury**	**12/16/08**	**3.3**	**ug/l**	**0.13**	**0.2**	**1.1**			**2.2**	**Leachate &/or LFG**
MW-I	Nickel	12/16/08	9.1	ug/l	0.06	50	100				
MW-I	Selenium	12/16/08	1.7	ug/l	0.14	10	50				
MW-I	Silver	12/16/08	0.1	ug/l	0.04	10	18				
MW-I	Tetrachloroethene	12/16/08	0.2	ug/l	0.16	1	0.7				
MW-I	Thallium	12/16/08	0.2	ug/l	0.04	5			0.28		
MW-I	Trichloroethene	12/16/08	0.4	ug/l	0.13	1	2.8				
MW-I	**Vanadium**	**12/16/08**	**15.6[j]**	**ug/l**	**0.07**	**25**			**3.5**	**12.1**	
MW-I	**Vinyl Chloride**	**12/16/08**	**18.8**	**ug/l**	**0.34**	**1**	**0.015**			**18.785**	**Leachate &/or LFG**
MW-I	Zinc	12/16/08	242	ug/l	0.04	10	1050				
MW-J	1,1-Dichloroethane	12/16/08	0.4	ug/l	0.16	5	70				
MW-J	Antimony	12/16/08	0.2	ug/l	0.08	6			1.4		
MW-J	Arsenic	12/16/08	2.1	ug/l	0.07	10	50				
MW-J	Barium	12/16/08	97.5	ug/l	0.11	100	2000				
MW-J	Benzene	12/16/08	0.6	ug/l	0.16	1	1				
MW-J	Beryllium	12/16/08	0.6	ug/l	0.06	1			2		
MW-J	Cadmium	12/16/08	0.7	ug/l	0.04	1	1.75				
MW-J	Chlorobenzene	12/16/08	0.7	ug/l	0.13	3	50				
MW-J	Chromium	12/16/08	6	ug/l	0.11	10	50				
MW-J	Cis-1,2-Dichloroethene	12/16/08	4.9	ug/l	0.14	5	70				
MW-J	Cobalt	12/16/08	13	ug/l	0.03	10			70		
MW-J	Copper	12/16/08	2.1	ug/l	0.05	10	1000				
MW-J	Lead	12/16/08	1.9	ug/l	0.04	10	15				
MW-J	Mercury	12/16/08	0.11	ug/l	0.13	0.2	1.1				
MW-J	Methylene Chloride	12/16/08	0.2	ug/l	0.14	1	4.6				
MW-J	Nickel	12/16/08	7.6	ug/l	0.06	50	100				
MW-J	Selenium	12/16/08	0.8	ug/l	0.14	10	50				
MW-J	**Tetrachloroethene**	**12/16/08**	**0.8[j]**	**ug/l**	**0.16**	**1**	**0.7**			**0.1**	**Leachate &/or LFG**
MW-J	Thallium	12/16/08	0.1	ug/l	0.04	5			0.28		
MW-J	Trichloroethene	12/16/08	0.5	ug/l	0.13	1	2.8				
MW-J	**Vanadium**	**12/16/08**	**11.6[j]**	**ug/l**	**0.07**	**25**			**3.5**	**8.1**	
MW-J	**Vinyl Chloride**	**12/16/08**	**4.1**	**ug/l**	**0.34**	**1**	**0.015**			**4.085**	**Leachate &/or LFG**
MW-J	Zinc	12/16/08	28	ug/l	0.04	10	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	NCGW 2L [4]	NCSW2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-K	Antimony	12/16/08	0.2	ug/l	0.08	6			1.4		
MW-K	Arsenic	12/16/08	1.2	ug/l	0.07	10	50				
MW-K	Barium	12/16/08	88.2	ug/l	0.11	100	2000				
MW-K	Beryllium	12/16/08	0.4	ug/l	0.06	1			2		
MW-K	Cadmium	12/16/08	0.1	ug/l	0.04	1	1.75				
MW-K	Chromium	12/16/08	9.6	ug/l	0.11	10	50				
MW-K	Cis-1,2-Dichloroethene	12/16/08	0.2	ug/l	0.14	5	70				
MW-K	Cobalt	12/16/08	1.5	ug/l	0.03	10			70		
MW-K	Copper	12/16/08	2	ug/l	0.05	10	1000				
MW-K	Lead	12/16/08	2.3	ug/l	0.04	10	15				
MW-K	Mercury	12/16/08	0.55	ug/l	0.01	0.2	1.1				
MW-K	Nickel	12/16/08	4.5	ug/l	0.06	50	100				
MW-K	Selenium	12/16/08	0.6	ug/l	0.14	10	50				
MW-K	Silver	12/16/08	0.1	ug/l	0.04	10	18				
MW-K	Thallium	12/16/08	0.1	ug/l	0.04	5			0.28		
MW-K	**Vanadium**	**12/16/08**	**12.7[j]**	**ug/l**	**0.07**	**25**			**3.5**	**9.2**	
MW-K	Zinc	12/16/08	17	ug/l	0.04	10	1050				
MW-L	Arsenic	12/16/08	2	ug/l	0.07	10	50				
MW-L	Barium	12/16/08	90.6	ug/l	0.11	100	2000				
MW-L	Beryllium	12/16/08	0.5	ug/l	0.06	1			2		
MW-L	Cadmium	12/16/08	0.9	ug/l	0.04	1	1.75				
MW-L	Chromium	12/16/08	5.9	ug/l	0.11	10	50				
MW-L	Cis-1,2-Dichloroethene	12/16/08	0.6	ug/l	0.14	5	70				
MW-L	Cobalt	12/16/08	36	ug/l	0.03	10			70		
MW-L	Copper	12/16/08	4.4	ug/l	0.05	10	1000				
MW-L	Lead	12/16/08	3.2	ug/l	0.04	10	15				
MW-L	Mercury	12/16/08	0.2	ug/l	0.01	0.2	1.1				
MW-L	Nickel	12/16/08	5.6	ug/l	0.06	50	100				
MW-L	Selenium	12/16/08	0.8	ug/l	0.14	10	50				
MW-L	Silver	12/16/08	0.1	ug/l	0.04	10	18				
MW-L	Thallium	12/16/08	0.1	ug/l	0.04	5			0.28		
MW-L	**Vanadium**	**12/16/08**	**13.1[j]**	**ug/l**	**0.07**	**25**			**3.5**	**9.6**	
MW-L	**Vinyl Chloride**	**12/16/08**	**0.5[j]**	**ug/l**	**0.34**	**1**	**0.015**			**0.485**	**Leachate &/or LFG**
MW-L	Zinc	12/16/08	109	ug/l	0.04	10	1050				
MW-M	1,1-Dichloroethane	12/16/08	0.3	ug/l	0.16	5	70				**Leachate &/or LFG**
MW-M	Arsenic	12/16/08	0.6	ug/l	0.07	10	50				
MW-M	Barium	12/16/08	106	ug/l	0.11	100	2000				
MW-M	Beryllium	12/16/08	0.8	ug/l	0.06	1			2		
MW-M	Cadmium	12/16/08	0.1	ug/l	0.04	1	1.75				
MW-M	Chromium	12/16/08	7.2	ug/l	0.11	10	50				
MW-M	Cis-1,2-Dichloroethene	12/16/08	0.6	ug/l	0.14	5	70				
MW-M	Cobalt	12/16/08	26	ug/l	0.03	10			70		
MW-M	Copper	12/16/08	3.4	ug/l	0.05	10	1000				
MW-M	Lead	12/16/08	4.4	ug/l	0.04	10	15				
MW-M	Mercury	12/16/08	0.16	ug/l	0.01	0.2	1.1				
MW-M	Nickel	12/16/08	4.7	ug/l	0.06	50	100				
MW-M	Selenium	12/16/08	0.8	ug/l	0.14	10	50				
MW-M	**Tetrachloroethene**	**12/16/08**	**1.2**	**ug/l**	**0.16**	**1**	**0.7**			**0.5**	**Leachate &/or LFG**
MW-M	Thallium	12/16/08	0.1	ug/l	0.04	5			0.28		
MW-M	Trichloroethene	12/16/08	0.5	ug/l	0.13	1	2.8				
MW-M	**Vanadium**	**12/16/08**	**14.8[j]**	**ug/l**	**0.07**	**25**			**3.5**	**11.3**	
MW-M	Zinc	12/16/08	16	ug/l	0.04	10	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	NCGW 2L [4]	NCSW2B [5]	GWP [6]	Exceedance	Preliminary Cause
SW-1	Antimony	12/16/08	1.2	ug/l	0.08	6		640			
SW-1	Arsenic	12/16/08	1.3	ug/l	0.07	10		10			
SW-1	Barium	12/16/08	72.6	ug/l	0.11	100		200000			
SW-1	Beryllium	12/16/08	0.2	ug/l	0.06	1		6.5			
SW-1	Chromium	12/16/08	3.1	ug/l	0.11	10		50			
SW-1	Cobalt	12/16/08	3.8	ug/l	0.03	10		270			
SW-1	Copper	12/16/08	4.7	ug/l	0.05	10		7			
SW-1	Lead	12/16/08	3.4	ug/l	0.04	10		25			
SW-1	Nickel	12/16/08	2.5	ug/l	0.06	50		88			
SW-1	Selenium	12/16/08	0.2	ug/l	0.14	10		5			
SW-1	**Silver**	**12/16/08**	**0.1[j]**	**ug/l**	**0.04**	**10**		**0.06**		**0.04**	**Natural**
SW-1	Vanadium	12/16/08	7.2	ug/l	0.07	25		NE			
SW-1	Zinc	12/16/08	25	ug/l	0.04	10		50			
SW-2	Antimony	12/16/08	0.3	ug/l	0.08	6		640			
SW-2	Arsenic	12/16/08	1.4	ug/l	0.07	10		10			
SW-2	Barium	12/16/08	43.4	ug/l	0.11	100		200000			
SW-2	Beryllium	12/16/08	0.1	ug/l	0.06	1		6.5			
SW-2	Chromium	12/16/08	2.5	ug/l	0.11	10		50			
SW-2	Cobalt	12/16/08	2.3	ug/l	0.03	10		270			
SW-2	Copper	12/16/08	3.3	ug/l	0.05	10		7			
SW-2	Lead	12/16/08	2	ug/l	0.04	10		25			
SW-2	Nickel	12/16/08	1.7	ug/l	0.06	50		88			
SW-2	Vanadium	12/16/08	6.1	ug/l	0.07	25		NE			
SW-2	Zinc	12/16/08	19	ug/l	0.04	10		50			
SW-3	Antimony	12/16/08	3.3	ug/l	0.08	6		640			
SW-3	Arsenic	12/16/08	1.1	ug/l	0.07	10		10			
SW-3	Barium	12/16/08	187	ug/l	0.11	100		200000			
SW-3	Chlorobenzene	12/16/08	0.6	ug/l	0.13	3		140			
SW-3	Chromium	12/16/08	0.3	ug/l	0.11	10		50			
SW-3	Cis-1,2-Dichloroethene	12/16/08	0.6	ug/l	0.14	5		4900			
SW-3	Cobalt	12/16/08	13	ug/l	0.03	10		270			
SW-3	Copper	12/16/08	1.3	ug/l	0.05	10		7			
SW-3	Lead	12/16/08	0.6	ug/l	0.04	10		25			
SW-3	Nickel	12/16/08	3.9	ug/l	0.06	50		88			
SW-3	Selenium	12/16/08	0.4	ug/l	0.14	10		5			
SW-3	**Silver**	**12/16/08**	**0.1[j]**	**ug/l**	**0.04**	**10**		**0.06**		**0.04**	**Natural**
SW-3	Vanadium	12/16/08	2.7	ug/l	0.07	25		NE			
SW-3	Vinyl Chloride	12/16/08	0.8	ug/l	0.34	1		2.4			
SW-3	Zinc	12/16/08	15	ug/l	0.04	10		50			
SW-4	Antimony	12/16/08	0.1	ug/l	0.08	6		640			
SW-4	Arsenic	12/16/08	1.1	ug/l	0.07	10		10			
SW-4	Barium	12/16/08	233	ug/l	0.11	100		200000			
SW-4	Cadmium	12/16/08	0.6	ug/l	0.04	1		2			
SW-4	Cobalt	12/16/08	7.2	ug/l	0.03	10		270			
SW-4	Copper	12/16/08	1.2	ug/l	0.05	10		7			
SW-4	Lead	12/16/08	0.8	ug/l	0.04	10		25			
SW-4	Nickel	12/16/08	1.9	ug/l	0.06	50		88			
SW-4	Selenium	12/16/08	1.2	ug/l	0.14	10		5			
SW-4	Vanadium	12/16/08	2.1	ug/l	0.07	25		NE			
SW-4	Zinc	12/16/08	7.2	ug/l	0.04	10		50			
EB	Arsenic	12/16/08	0.2	ug/l	0.07	10	50				
EB	Cobalt	12/16/08	0.1	ug/l	0.03	10			70		
EB	Copper	12/16/08	0.9	ug/l	0.05	10	1000				
EB	Nickel	12/16/08	0.1	ug/l	0.06	50	100				
EB	Vanadium	12/16/08	2.1	ug/l	0.07	25			3.5		
EB	Zinc	12/16/08	1.3	ug/l	0.04	10	1050				

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	NCGW 2L [4]	NCSW2B [5]	GWP [6]	Exceedance	Preliminary Cause

[1] Table contains all constituents detected above MDL
[2] MDL = Method Detection Limit
[3] SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)
[4] NCGW2L = North Carolina Ground Water 2L Standard (Current as of Sampling Event)
[5] NCSW2B = North Carolina Surface Water 2B Standard for Specific Stream Classification (Current as of Sampling Event)
[6] GWP = Groundwater Protection Standard (Current as of Sampling Event)
[J] =The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture content.
LFG = Landfill Gas
NE = Not Established
BOLD = Concentration =>GWP, NCGW2L, or NCSW2B Standard (Current as of Sampling Event)

Hydrologic Properties at Monitoring Well Locations
Hertford County Closed Unlined MSWLF

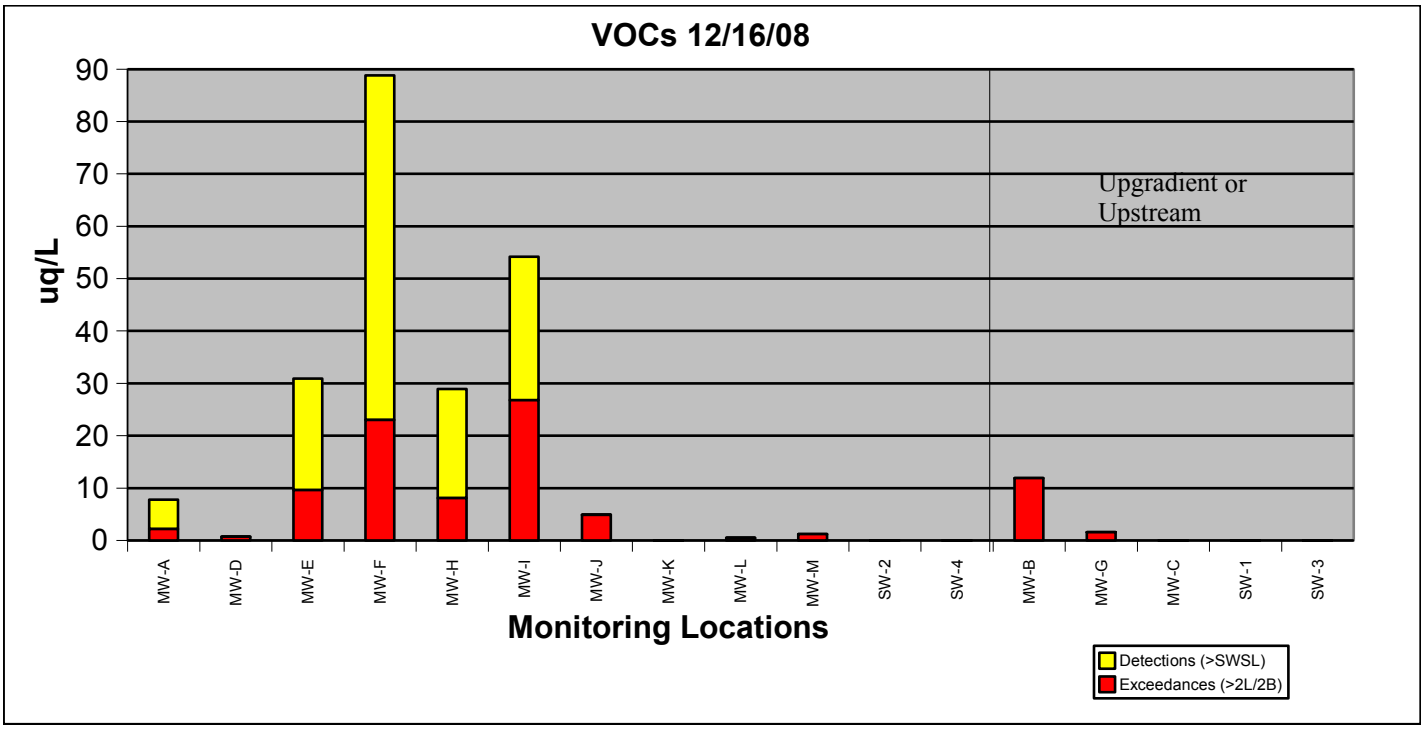
Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elevation (ft)	Screened Interval Lithology	Direction in Relation to MSWLF Boundary
MW-A	7.30E-04	20%	0.0072	27	N0E	26.73	23.52	Sand	Crossgradient
MW-B	6.90E-04	20%	0.0019	7	N31W	25.4	24.37	Sand	Upgradient
MW-C	1.10E-04	20%	0.0005	0.3	N50W	21.28	24.3	Clayey Sand	Upgradient
MW-D	4.40E-04	20%	0.0064	14	N0E	28.28	20.03	Clayey Silt	Downgradient
MW-E	3.10E-03	20%	0.0001	2	N38W	27.88	19.98	Sand	Downgradient
MW-F	3.10E-03	20%	0.0080	129	N01W	31.43	18.06	Clayey Sand	Downgradient
MW-G	1.80E-03	20%	0.0015	14	N29W	25.42	24.68	Sand	Upgradient
MW-H	4.60E-03	20%	0.0069	163	N4W	27.95	17.51	Sand	Downgradient
MW-I	1.10E-03	20%	0.0024	14	N81W	30.51	17.49	Sand	Downgradient
MW-J	1.20E-03	20%	0.0021	13	N41W	28.13	18.13	Sand	Downgradient
MW-K	3.50E-03	20%	0.0010	17	N0W	29.66	19.15	Sand	Downgradient
MW-L	1.60E-04	20%	0.0039	3	N18E	25.65	20.76	Sand	Downgradient
MW-M	1.20E-03	20%	0.0058	36	N1W	23.38	24.39	Sand	Crossgradient

NOTE: Data for effective porosity & hydraulic conductivities obtained from GAI Consultants' Assessment Report (Feb. 1996)
Hydrologic Gradient taken from the December 16, 2008 sampling event.
Flow rate (Q) is defined by the equation:

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

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

Histogram for All VOC Detections above SWSL, GWP, and NCGW2L
Hertford County Closed Unlined MSWLF



Sample ID	Detected >SWSL<NCGW2L		Detected >NCGW2L		Cumulative >SWSL & >NCGW2L		Exceeded NCGW2L Aromatic Parameter(s)	Exceeded NCGW2L CAH Parameter(s)	Exceeded Parameter(s) Detected >Historical Identified Range
	#	Conc. (uq/L)	#	Conc. (uq/L)	#	Conc. (uq/L)			
MW-A	2	5.6	2	2.2	4	7.8	Benzene	VCM[j]	-
MW-B	0	0	2	11.9	2	11.9	-	TCE,VCM	-
MW-D	0	0	1	0.7	1	0.7	-	VCM[j]	-
MW-E	1	21.3	3	9.6	4	30.9	Benzene,1,4-DCB	VCM	-
MW-F	3	65.8	5	23	8	88.8	Benzene,1,4-DCB	EDC[j],PCE,VCM	-
MW-G	0	0	1	11.9	1	11.9	-	VCM	VCM
MW-H	2	20.8	3	8.1	5	28.9	Benzene,1,4-DCB	VCM	-
MW-I	2	27.4	3	26.8	5	54.2	Benzene,1,4-DCB	VCM	1,4-DCB
MW-J	0	0	2	4.9	2	4.9	-	PCE[j],VCM	VCM
MW-L	0	0	1	0.5	1	0.5	-	VCM[j]	-
MW-M	0	0	1	1.2	1	1.2	-	PCE	PCE
Total	**10**	**140.9**	**24**	**101**	**34**	**241.7**	**10**	**14**	**4**

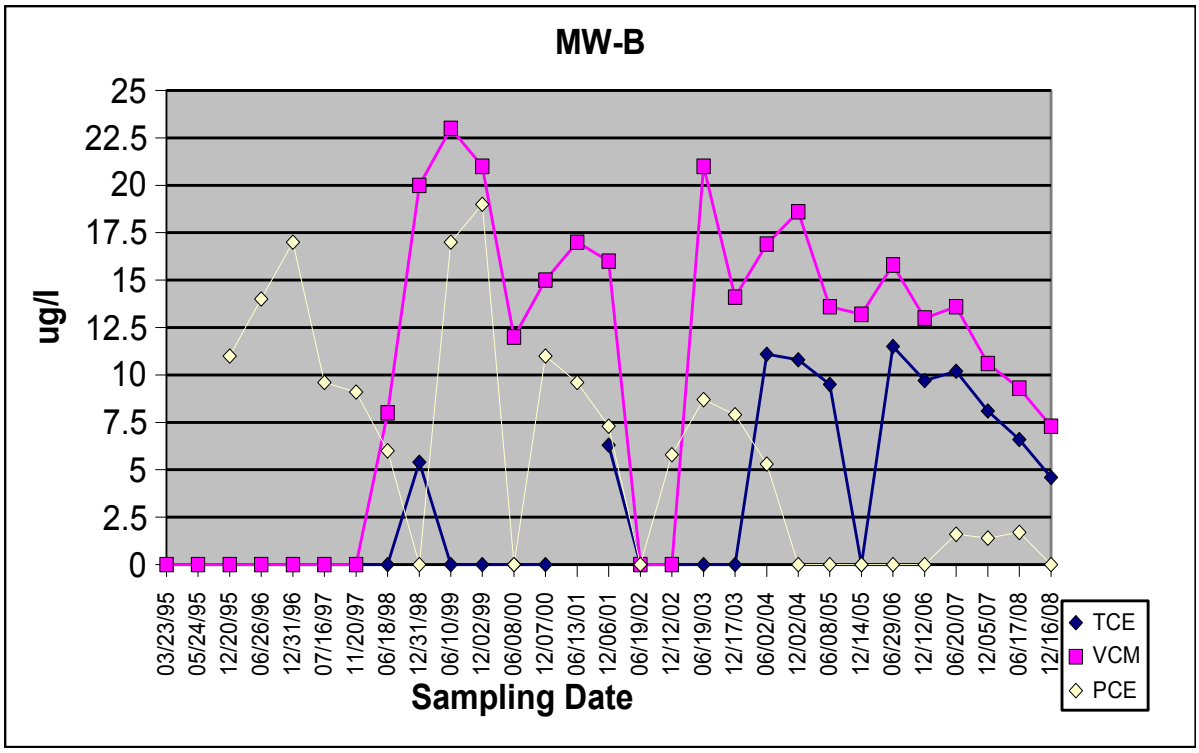
Table only contains VOC constituents detected above the SWSL, GWP, NCSW2B or NCGW2L Standard

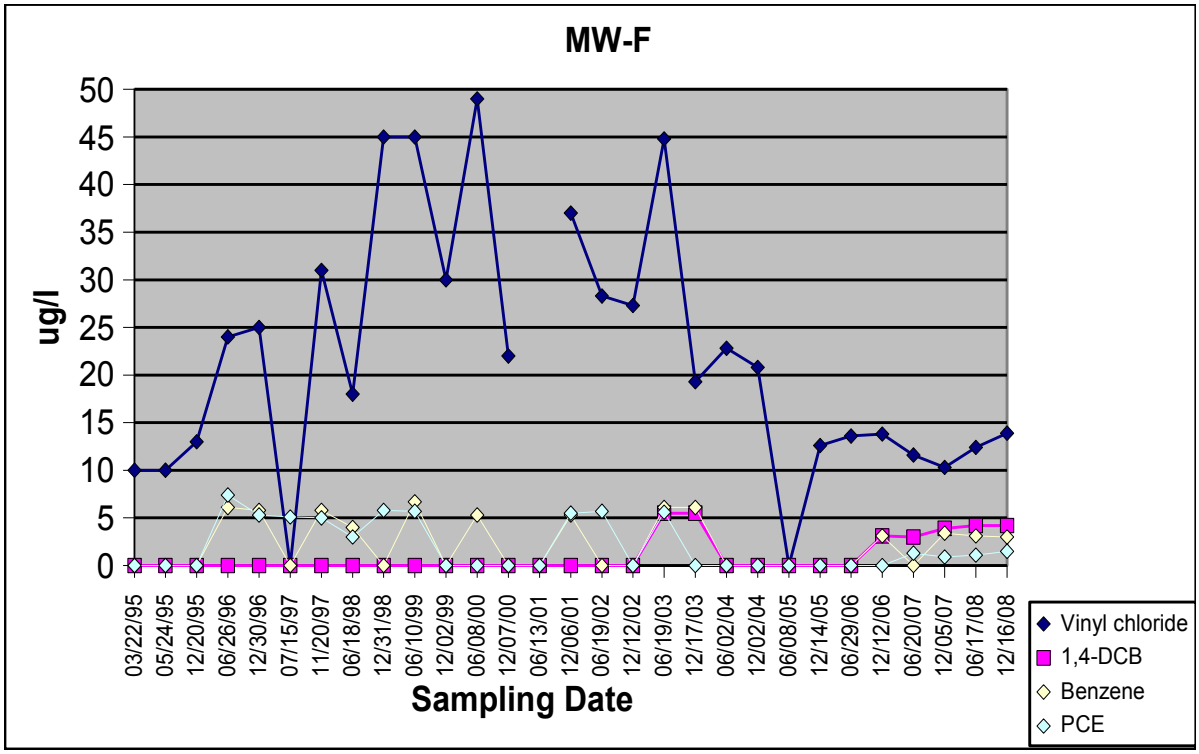
SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

NCGW2L = North Carolina Ground Water 2L Standard (Current as of Sampling Event)

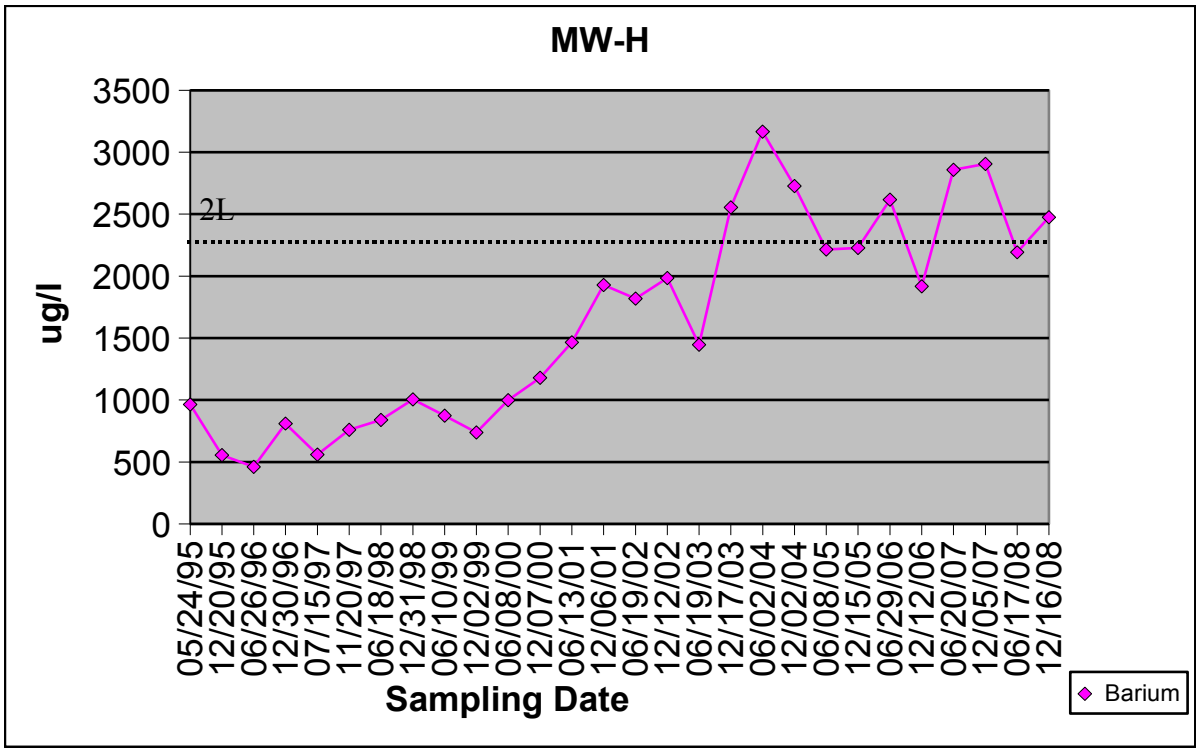
[j] = Detected >NCGW2L BUT <SWSL ("J" Qualifier) Therefore, concentration non-quantifiable or an estimated value

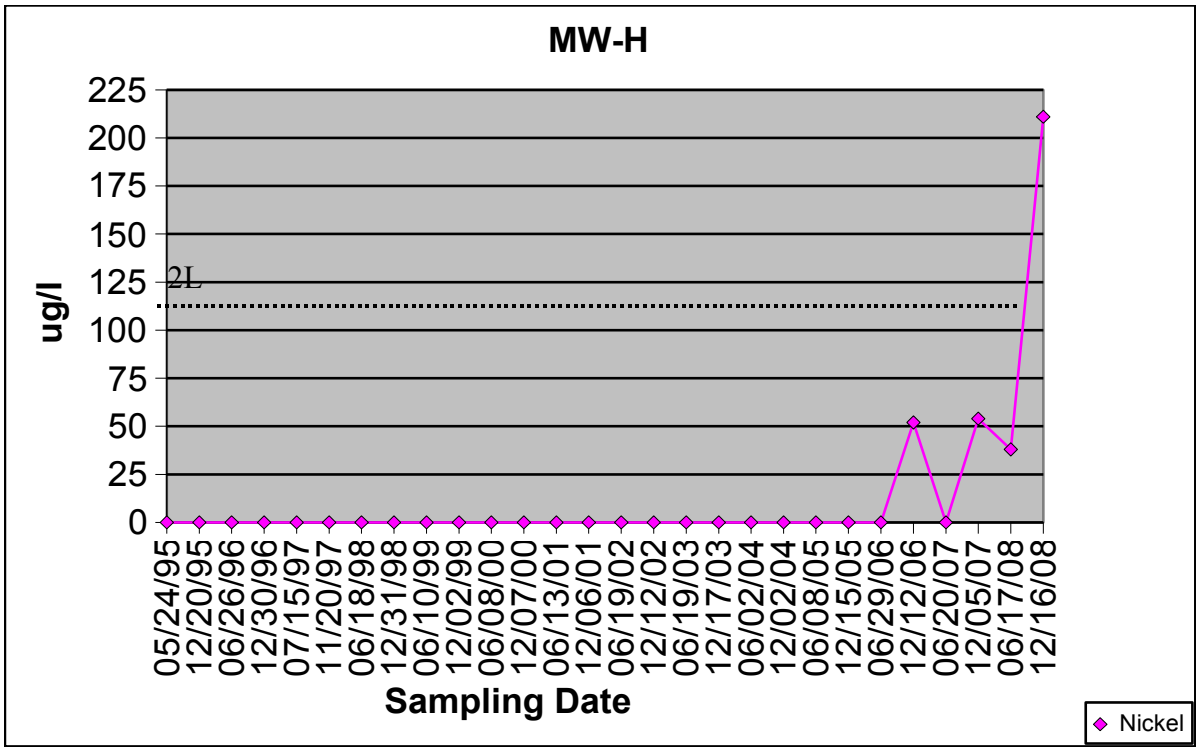
Time-Series Plot for VOC Exceedances
Hertford County Closed Unlined MSWLF



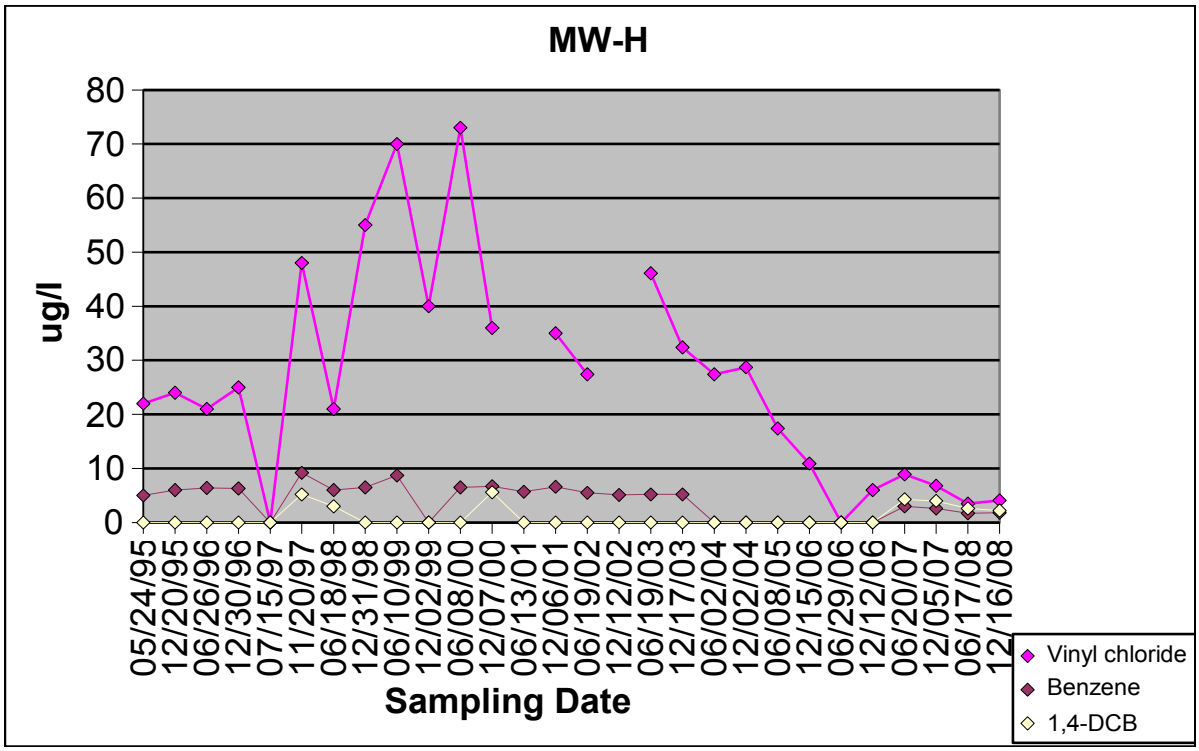


Time-Series Plot for Exceedances
Hertford County Closed Unlined MSWLF

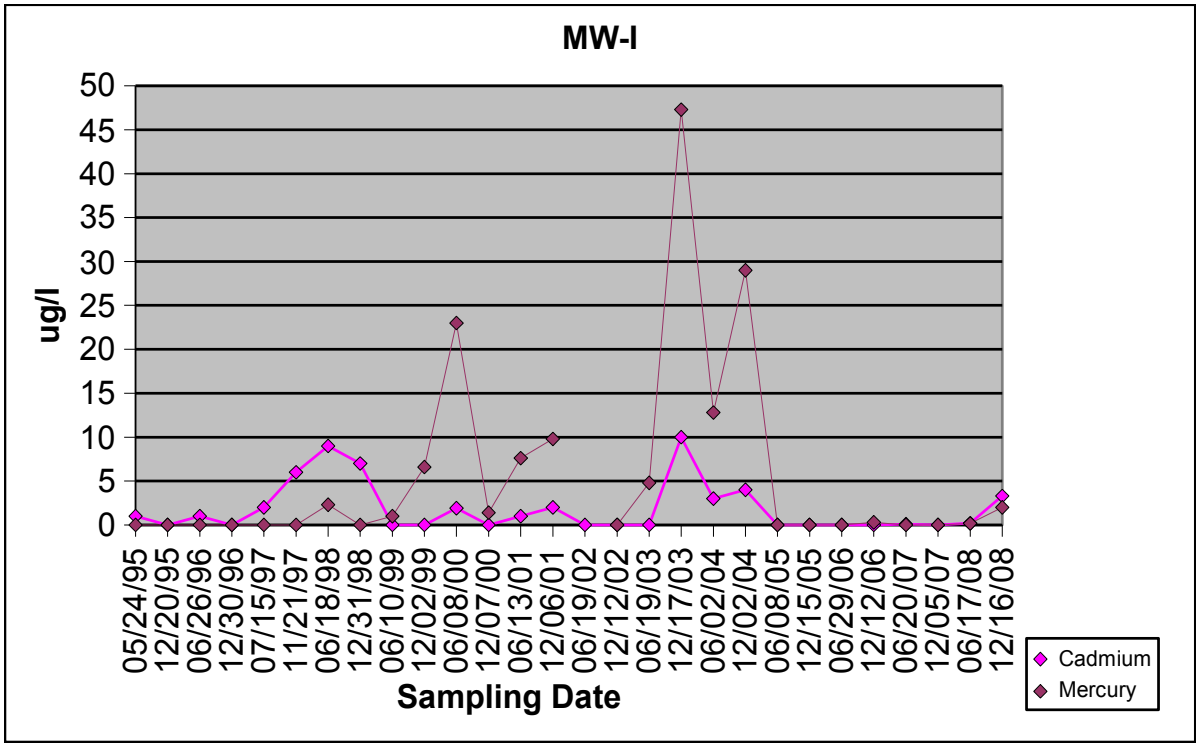


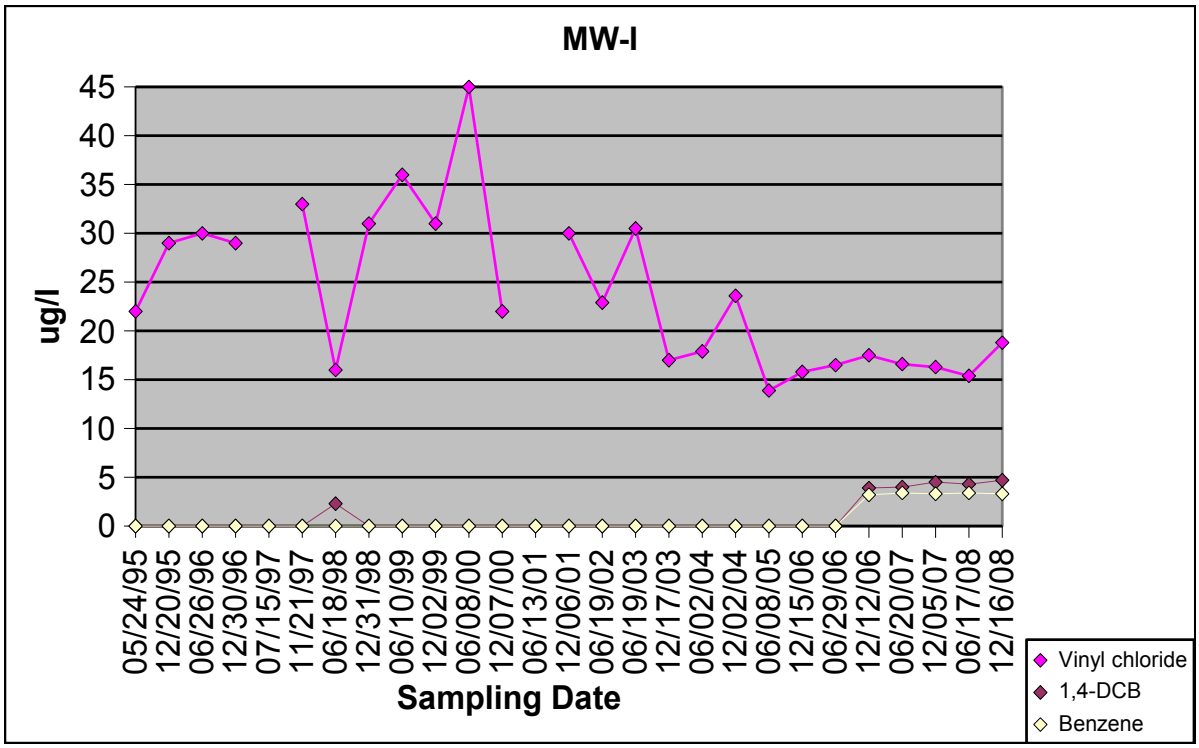


Time-Series Plot for Exceedances
Hertford County Closed Unlined MSWLF

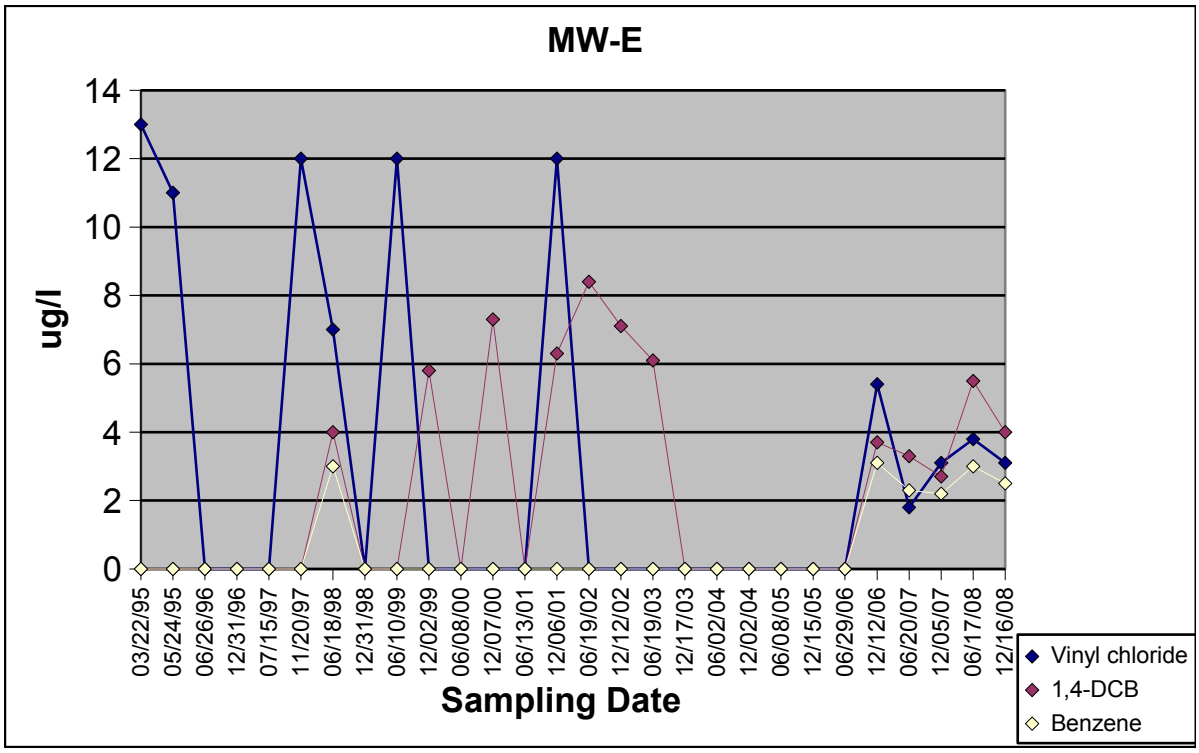


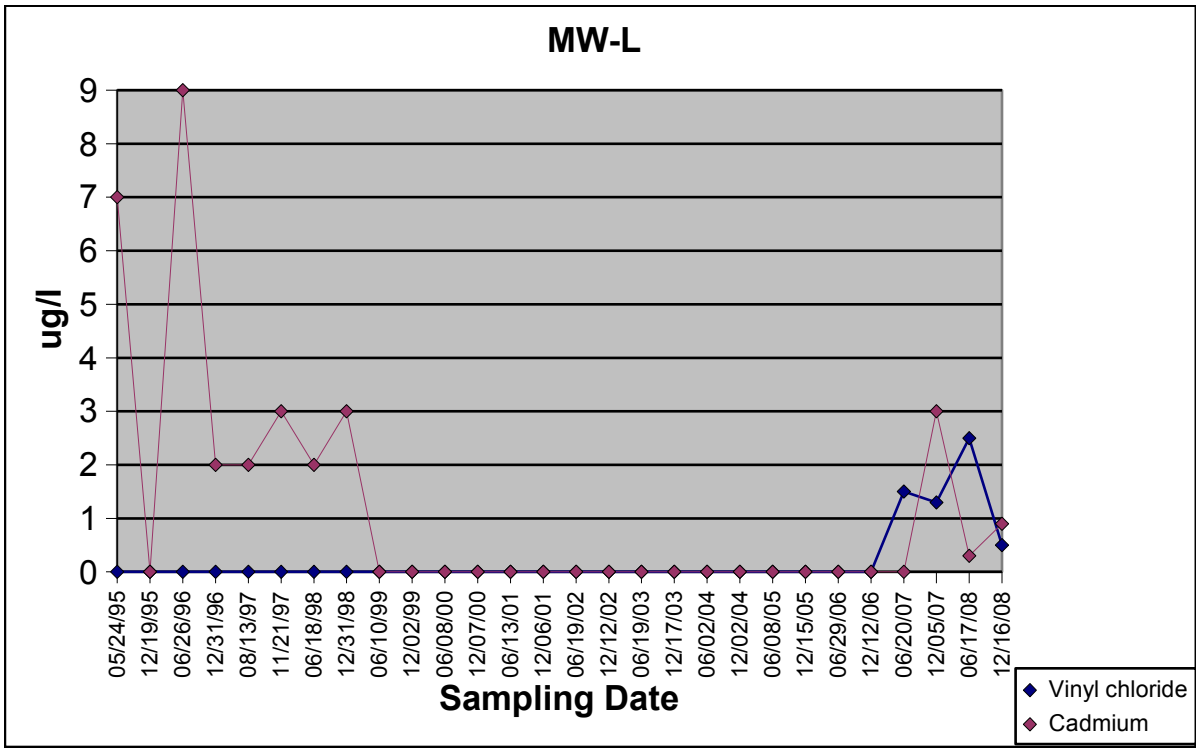
Time-Series Plot for VOC Exceedances
Hertford County Closed Unlined MSWLF



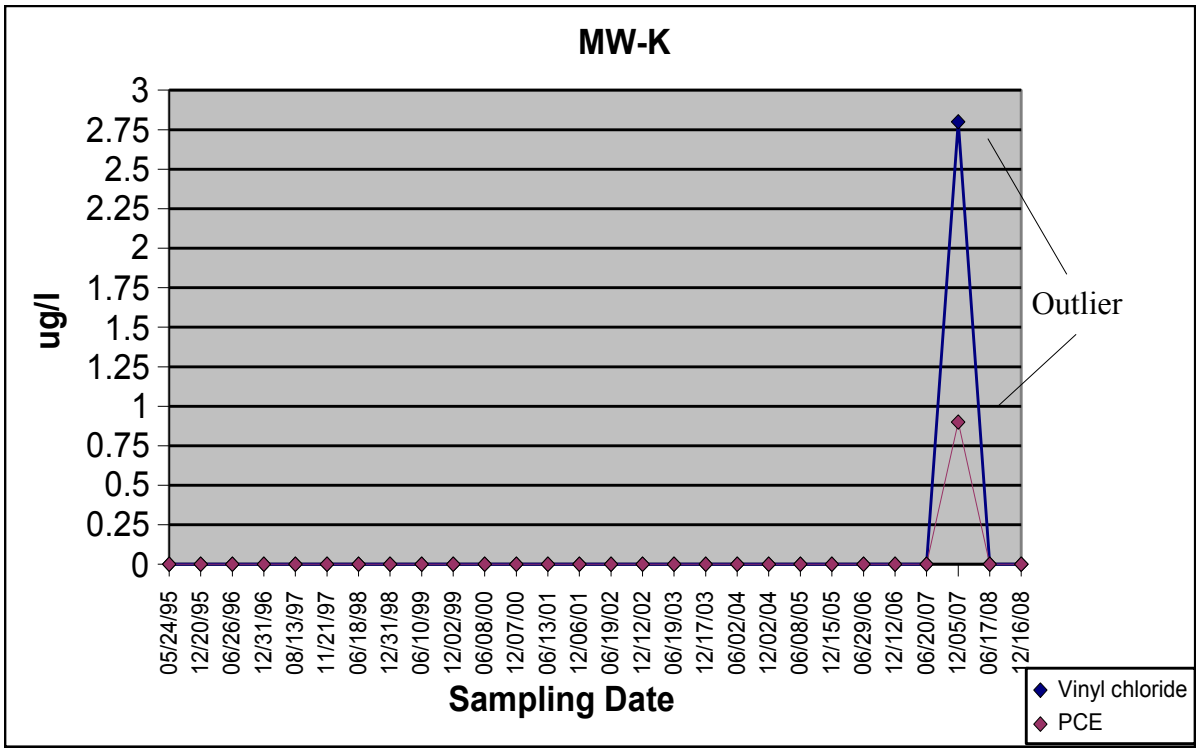


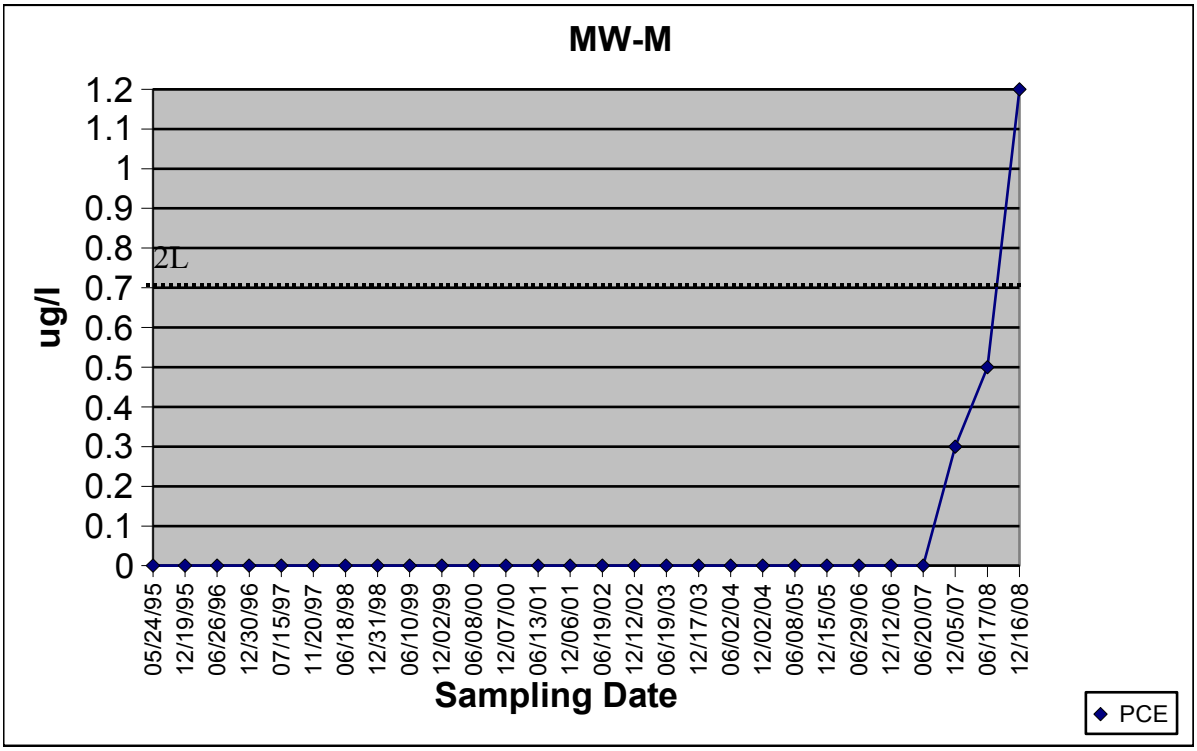
Time-Series Plot for VOC Exceedances
Hertford County Closed Unlined MSWLF



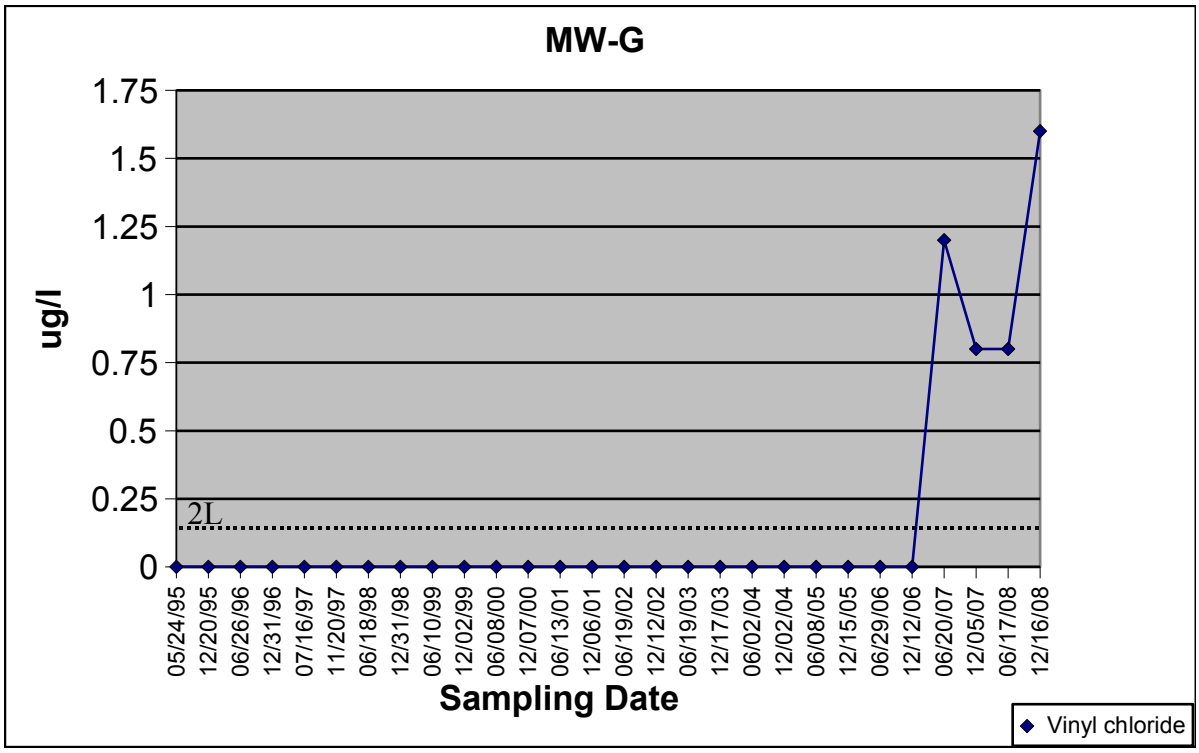


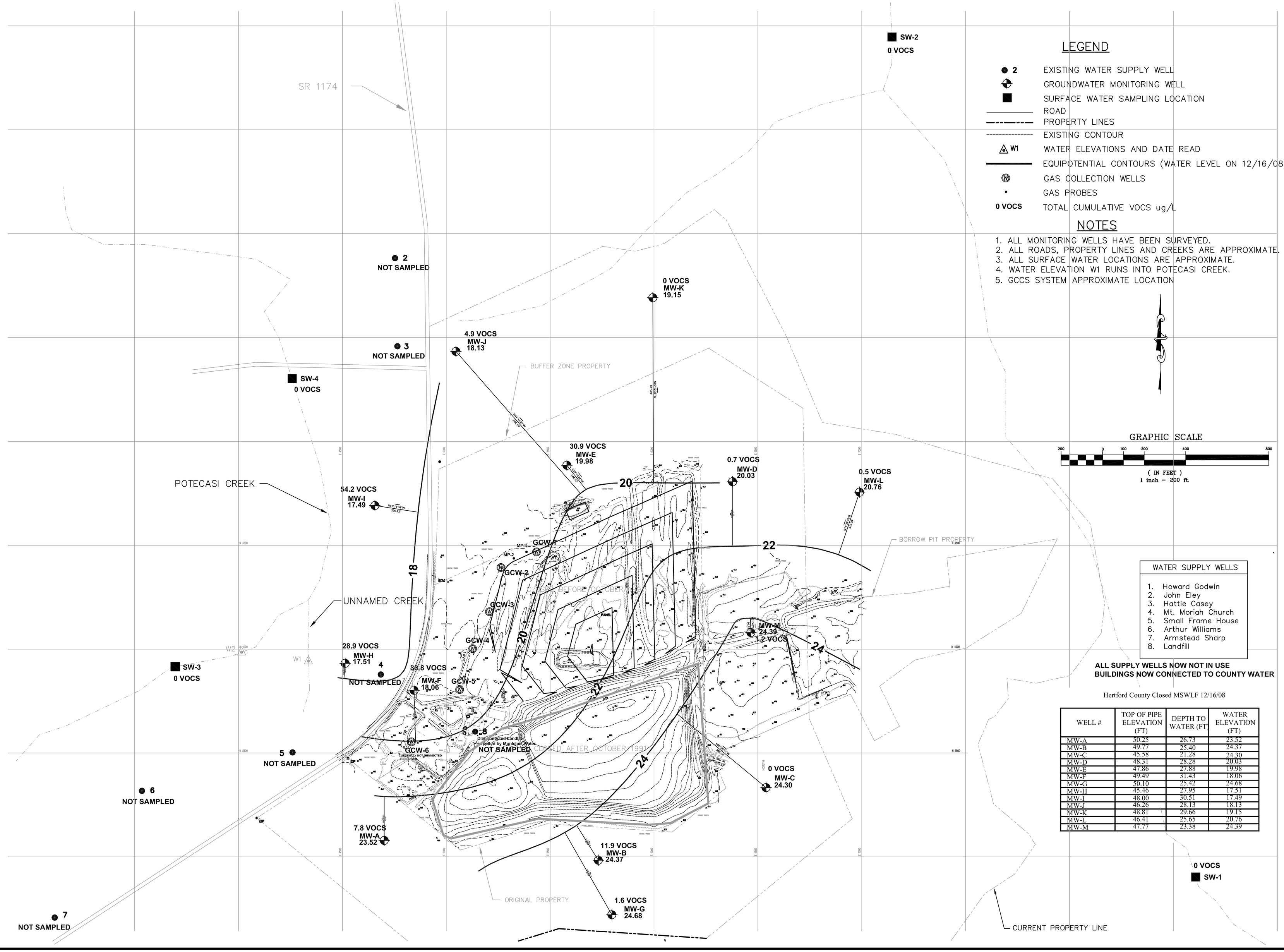
Time-Series Plot for VOC Exceedances
Hertford County Closed Unlined MSWLF





Time-Series Plot for VOC Exceedances
Hertford County Closed Unlined MSWLF





LEGEND

- 2 — EXISTING WATER SUPPLY WELL
- GROUNDWATER MONITORING WELL
- SURFACE WATER SAMPLING LOCATION
- ROAD
- PROPERTY LINES
- EXISTING CONTOUR
- W1 — WATER ELEVATIONS AND DATE READ
- EQUIPOTENTIAL CONTOURS (WATER LEVEL ON 12/16/08)
- GAS COLLECTION WELLS
- GAS PROBES
- 0 VOCS — TOTAL CUMULATIVE VOCS ug/L

NOTES

1. ALL MONITORING WELLS HAVE BEEN SURVEYED.
2. ALL ROADS, PROPERTY LINES AND CREEKS ARE APPROXIMATE.
3. ALL SURFACE WATER LOCATIONS ARE APPROXIMATE.
4. WATER ELEVATION W1 RUNS INTO POTECASI CREEK.
5. GCCS SYSTEM APPROXIMATE LOCATION

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

WATER SUPPLY WELLS
1. Howard Godwin
2. John Eley
3. Hattie Casey
4. Mt. Moriah Church
5. Small Frame House
6. Arthur Williams
7. Armstead Sharp
8. Landfill

ALL SUPPLY WELLS NOW NOT IN USE
BUILDINGS NOW CONNECTED TO COUNTY WATER

Hertford County Closed MSWLF 12/16/08

WELL #	TOP OF PIPE ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)
MW-A	50.25	26.73	23.52
MW-B	49.77	25.40	24.37
MW-C	45.58	21.28	24.30
MW-D	48.31	28.28	20.03
MW-E	47.86	27.88	19.98
MW-F	49.49	31.43	18.06
MW-G	50.10	25.42	24.68
MW-H	45.46	27.95	17.51
MW-I	48.00	30.51	17.49
MW-J	46.26	28.13	18.13
MW-K	48.81	29.66	19.15
MW-L	46.41	25.65	20.76
MW-M	47.77	23.38	24.39

Municipal Services Engineering 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

MUNICIPAL SOLID WASTE LANDFILL FACILITY
HERTFORD COUNTY NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SINGLE DAY POTENTIOMETRIC MAP
12/16/08

SCALE: 1" = 200'
DATE: 5-29-2009
DRWN. BY: M. GERMAN
CHKD. BY: J. PFOHL
PROJECT NUMBER G08013.0
DRAWING NO. –
SHEET NO. 1 OF 1

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#: 6025 A

HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER ,NC 27529

DATE COLLECTED: 12/16/08
DATE REPORTED : 01/29/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-1	SW-2	SW-3	SW-4	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.7	5.9	6.1	6.7	12/16/08	RJH	SM4500HB
Antimony, ug/l	0.08	6.0	1.2 J	0.3 J	3.3 J	0.1 J	01/09/09	CMF	EPA200.8
Arsenic, ug/l	0.07	10.0	1.3 J	1.4 J	1.1 J	1.1 J	01/09/09	CMF	EPA200.8
Barium, ug/l	0.11	100.0	72.6 J	43.4 J	187	233	01/09/09	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	0.2 J	0.1 J	--- U	--- U	01/09/09	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	--- U	--- U	0.6 J	01/09/09	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	3.8 J	2.3 J	13	7.2 J	01/09/09	CMF	EPA200.8
Copper, ug/l	0.05	10.0	4.7 J	3.3 J	1.3 J	1.2 J	01/09/09	CMF	EPA200.8
Total Chromium, ug/l	0.11	10.0	3.1 J	2.5 J	0.3 J	--- U	01/09/09	CMF	EPA200.8
Lead, ug/l	0.04	10.0	3.4 J	2.0 J	0.6 J	0.8 J	01/09/09	CMF	EPA200.8
Nickel, ug/l	0.06	50.0	2.5 J	1.7 J	3.9 J	1.9 J	01/09/09	CMF	EPA200.8
Selenium, ug/l	0.14	10.0	0.2 J	--- U	0.4 J	1.2 J	01/09/09	CMF	EPA200.8
Silver, ug/l	0.04	10.0	0.1 J	--- U	0.1 J	--- U	01/09/09	CMF	EPA200.8
Thallium, ug/l	0.04	5.0	--- U	--- U	--- U	--- U	01/09/09	CMF	EPA200.8
Vanadium, ug/l	0.07	25.0	7.2 J	6.1 J	2.7 J	2.1 J	01/09/09	CMF	EPA200.8
Zinc, ug/l	0.04	10.0	25	19	15	7.2 J	01/09/09	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	61	64	266	384	12/16/08	RJH	SM2510B
Temperature, °C			11	11	11	11	12/16/08	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: HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER, NC 27529

CLIENT ID: 6025 A

ANALYST: MAO
DATE COLLECTED: 12/16/08
DATE ANALYZED: 12/22/08
DATE REPORTED: 01/29/09

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	SW-1	SW-2	SW-3	SW-4
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	0.80 J	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	--- U	--- U	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	0.60 J	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	0.60 J	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U

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

Environment 1, Inc.
P.O. Box 5085, 144 Oakmont Dr.
Greenville, NC 27858

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

CHAIN OF CUSTODY RECORD

CLIENT: 6025 A **Week: 50**

HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER NC 27529

(919) 772-5393

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

																					CHLORINE NEUTRALIZED AT COLLECTION
																					pH CHECK (LAB)
							P	P	P	P	G	G									CONTAINER TYPE, P/G
							A	A	A	A	E	E									CHEMICAL PRESERVATION
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS		Field pH	Metals	Conductivity	Temperature	EPA 8260B	8260 Dup. 1									PARAMETERS
SW-1	12/16/08	1145		11	4		■	■	■	■	■	■									
SW-2	12/16/08	1140		11	4		■	■	■	■	■	■									
SW-3	12/16/08	1035		11	4		■	■	■	■	■	■									
SW-4	12/16/08	1050		11	4		■	■	■	■	■	■									

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 Page / Fat

SAMPLES RECEIVED IN LAB AT 2.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Page 12/16/08	2:00PM	[illegible]	12/16/08 2:00PM
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

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

№ 173491

FORM #5

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#: 6025

HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER ,NC 27529

DATE COLLECTED: 12/16/08
DATE REPORTED : 01/29/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-A	MW-B	MW-C	MW-D	MW-E	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.6	5.6	4.9	5.6	5.8	12/16/08	RJH	SM4500HB
Antimony, ug/l	0.08	6.0	0.1 J	--- U	0.3 J	--- U	--- U	12/24/08	LFJ	EPA200.8
Arsenic, ug/l	0.07	10.0	4.8 J	8 J	1.8 J	5.4 J	11	12/24/08	LFJ	EPA200.8
Barium, ug/l	0.11	100.0	149	130	116	194	173	12/29/08	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	0.2 J	0.2 J	1.9	1.6	0.5 J	12/24/08	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.5 J	0.1 J	0.4 J	0.5 J	0.8 J	12/24/08	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	102	44	9.7 J	39	85	12/29/08	LFJ	EPA200.8
Copper, ug/l	0.05	10.0	5.8 J	1.7 J	4 J	10	7.7 J	12/24/08	LFJ	EPA200.8
Total Chromium, ug/l	0.11	10.0	2.9 J	3.1 J	7.6 J	21	8.6 J	12/29/08	LFJ	EPA200.8
Lead, ug/l	0.04	10.0	2.9 J	1 J	4.1 J	6.4 J	5.4 J	12/24/08	LFJ	EPA200.8
Mercury, ug/l	0.01	0.20	0.11 J	--- U	--- U	0.01 J	0.02 J	12/29/08	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	4.2 J	10 J	8 J	14.4 J	9.4 J	12/29/08	LFJ	EPA200.8
Selenium, ug/l	0.14	10.0	1.6 J	0.6 J	1.0 J	2.0 J	0.8 J	12/24/08	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	0.1 J	--- U	0.1 J	0.1 J	0.1 J	12/29/08	LFJ	EPA200.8
Thallium, ug/l	0.04	5.0	0.1 J	--- U	0.1 J	0.1 J	0.3 J	12/24/08	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	8.5 J	6.2 J	19.9 J	34	21.7 J	12/24/08	LFJ	EPA200.8
Zinc, ug/l	0.04	10.0	34	21	32	82	77	12/24/08	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	277	194	79	378	360	12/16/08	RJH	SM2510B
Temperature, °C			17	16	16	16	18	12/16/08	RJH	SM2550B
Static Water Level, feet			26.73	25.40	21.28	28.28	27.88	12/16/08	RJH	
Well Depth, feet			30.41	28.85	25.20	35.49	35.39	12/16/08	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#: 6025

HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER ,NC 27529

DATE COLLECTED: 12/16/08
DATE REPORTED : 01/29/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-F	MW-G	MW-H	MW-I	MW-J	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.2	5.8	6.4	5.8	5.5	12/16/08	RJH	SM4500HB
Antimony, ug/l	0.08	6.0	0.3 J	0.4 J	0.1 J	0.1 J	0.2 J	12/24/08	LFJ	EPA200.8
Arsenic, ug/l	0.07	10.0	5.7 J	1.3 J	3 J	4.8 J	2.1 J	12/24/08	LFJ	EPA200.8
Barium, ug/l	0.11	100.0	519	124	2475	244	97.5 J	12/29/08	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	0.6 J	0.2 J	0.1 J	0.7 J	0.6 J	12/24/08	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	3	0.1 J	0.1 J	2	0.7 J	12/24/08	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	167	5.9 J	532	45	13	12/29/08	LFJ	EPA200.8
Copper, ug/l	0.05	10.0	6.3 J	1.1 J	0.9 J	5.1 J	2.1 J	12/24/08	LFJ	EPA200.8
Total Chromium, ug/l	0.11	10.0	2.1 J	1.2 J	--- U	7.3 J	6 J	12/29/08	LFJ	EPA200.8
Lead, ug/l	0.04	10.0	3.6 J	0.8 J	0.1 J	4.8 J	1.9 J	12/24/08	LFJ	EPA200.8
Mercury, ug/l	0.13	0.20	0.55	0.02 J	0.02 J		0.11 J	12/29/08	LFJ	EPA200.8
Mercury, ug/l	0.13	0.20				3.3		01/13/09	ADD	EPA245.1
Nickel, ug/l	0.06	50.0	13.3 J	9.5 J	211	9.1 J	7.6 J	12/29/08	LFJ	EPA200.8
Selenium, ug/l	0.14	10.0	0.9 J	0.5 J	0.5 J	1.7 J	0.8 J	12/24/08	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	0.1 J	0.1 J	0.1 J	0.1 J	--- U	12/29/08	LFJ	EPA200.8
Thallium, ug/l	0.04	5.0	0.8 J	0.1 J	1 J	0.2 J	0.1 J	12/24/08	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	6.1 J	5.5 J	2.5 J	15.6 J	11.6 J	12/24/08	LFJ	EPA200.8
Zinc, ug/l	0.04	10.0	462			242		12/29/08	LFJ	EPA200.8
Zinc, ug/l	0.04	10.0		31	6.8 J		28	12/24/08	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	876	275	712	453	185	12/16/08	RJH	SM2510B
Temperature, °C			18	16	16	16	16	12/16/08	RJH	SM2550B
Static Water Level, feet			31.43	25.42	27.95	30.51	28.13	12/16/08	RJH	
Well Depth, feet			35.28	39.65	37.11	36.47	38.45	12/16/08	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
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ID#: 6025

HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER ,NC 27529

DATE COLLECTED: 12/16/08
DATE REPORTED : 01/29/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-K	MW-L	MW-M	Trip Blank	Equipment Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.7	5.5	5.3			12/16/08	RJH	SM4500HB
Antimony, ug/l	0.08	6.0	0.2 J	--- U	--- U		--- U	12/24/08	LFJ	EPA200.8
Arsenic, ug/l	0.07	10.0	1.2 J	2.0 J	0.6 J		0.2 J	12/24/08	LFJ	EPA200.8
Barium, ug/l	0.11	100.0	88.2 J	90.6 J	106		--- U	12/29/08	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	0.4 J	0.5 J	0.8 J		--- U	12/24/08	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.1 J	0.9 J	0.1 J		--- U	12/24/08	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	1.5 J	36	26		0.1 J	12/29/08	LFJ	EPA200.8
Copper, ug/l	0.05	10.0	2 J	4.4 J	3.4 J		0.9 J	12/24/08	LFJ	EPA200.8
Total Chromium, ug/l	0.11	10.0	9.6 J	5.9 J	7.2 J		--- U	12/29/08	LFJ	EPA200.8
Lead, ug/l	0.04	10.0	2.3 J	3.2 J	4.4 J		--- U	12/24/08	LFJ	EPA200.8
Mercury, ug/l	0.01	0.20	0.55					01/13/09	ADD	EPA245.1
Mercury, ug/l	0.01	0.20		0.2	0.16 J		--- U	12/29/08	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	4.5 J	5.6 J	4.7 J		0.1 J	12/29/08	LFJ	EPA200.8
Selenium, ug/l	0.14	10.0	0.6 J	0.8 J	0.8 J		--- U	12/24/08	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	0.1 J	0.1 J	--- U		--- U	12/29/08	LFJ	EPA200.8
Thallium, ug/l	0.04	5.0	0.1 J	0.1 J	0.1 J		--- U	12/24/08	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	12.7 J	13.1 J	14.8 J		2.1 J	12/24/08	LFJ	EPA200.8
Zinc, ug/l	0.04	10.0	17	109	16		1.3 J	12/24/08	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	96	88	88			12/16/08	RJH	SM2510B
Temperature, °C			16	16	18			12/16/08	RJH	SM2550B
Static Water Level, feet			29.66	25.65	23.38			12/16/08	RJH	
Well Depth, feet			42.92	35.19	39.83			12/16/08	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: HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER, NC 27529

CLIENT ID: 6025

ANALYST: MAO
DATE COLLECTED: 12/16/08
DATE REPORTED: 01/29/09

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 12/16/08 MW-A	12/16/08 MW-B	12/16/08 MW-C	12/17/08 MW-D	12/17/08 MW-E
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	0.40 J	7.30	--- U	0.70 J	3.10
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	0.50 J	--- U	--- U	--- U	0.90 J
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	--- U	--- U
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	0.90 J	--- U	--- U	0.30 J	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	0.40 J	2.80 J	--- U	1.90 J	0.70 J
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	1.80	0.20 J	--- U	0.60 J	2.50
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	4.60	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- 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	0.20 J
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	--- U	--- U	0.40 J	--- 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	4.50	0.50 J	--- U	0.40 J	21.30
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	1.10	--- U	--- U	0.50 J	4.00
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: HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER, NC 27529

CLIENT ID: 6025

ANALYST: MAO
DATE COLLECTED: 12/16/08
DATE REPORTED: 01/29/09

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 12/17/08 MW-F	12/17/08 MW-G	12/17/08 MW-H	12/17/08 MW-I	12/17/08 MW-J
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	13.90	1.60	4.10	18.80	4.10
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	0.90 J	--- U	0.90 J	0.50 J	--- 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	1.40 J	--- U	--- U
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	0.20 J	--- U	--- U	--- U	0.20 J
11. trans-1,2-Dichloroethene	0.13	5.0	0.40 J	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	4.00 J	--- U	1.70 J	1.50 J	0.40 J
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	48.80	--- U	12.50	8.80	4.90 J
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	3.00	--- U	1.80	3.30	0.60 J
21. 1,2-Dichloroethane	0.12	1.0	0.40 J	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	1.80	--- U	0.30 J	0.40 J	0.50 J
23. 1,2-Dichloropropane	0.17	1.0	0.20 J	--- U	--- U	0.20 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	0.60 J	--- 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	1.50	--- U	--- U	0.20 J	0.80 J
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	15.20	--- U	8.30	18.60	0.70 J
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	4.20	--- U	2.20	4.70	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	0.20 J	0.20 J	--- 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: HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER, NC 27529

CLIENT ID: 6025

ANALYST: MAO
DATE COLLECTED: 12/16/08
DATE REPORTED: 01/29/09

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 12/17/08 MW-K	12/22/08 MW-L	12/22/08 MW-M	12/22/08 Trip Blank	12/22/08 Equipment Blank
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	0.50 J	--- 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	--- U	--- U
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	0.30 J	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	0.20 J	0.60 J	0.60 J	--- 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	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	0.50 J	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- 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	--- U	1.20	--- 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	--- U	--- 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, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

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

CHAIN OF CUSTODY RECORD

CLIENT: 6025 **Week:** 50

HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER NC 27529

(919) 772-5393

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	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION													
pH CHECK (LAB)							L2				L2	L2	L2
CONTAINER TYPE, P/G						P	P	P	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A		E	E	E
MW-A	12/16/08	0955		17	5	☐	☐	☐	☐	☐	☐	☐	☐
MW-B	12/16/08	1015		16	4	☐	☐	☐	☐	☐	☐	☐	
MW-C	12/16/08	0945		16	4	☐	☐	☐	☐	☐	☐	☐	
MW-D	12/16/08	1100		16	4	☐	☐	☐	☐	☐	☐	☐	
MW-E	12/16/08	1125		18	4	☐	☐	☐	☐	☐	☐	☐	
MW-F	12/16/08	1005		18	4	☐	☐	☐	☐	☐	☐	☐	
MW-G	12/16/08	1020		16	4	☐	☐	☐	☐	☐	☐	☐	
MW-H	12/16/08	1030		16	4	☐	☐	☐	☐	☐	☐	☐	
MW-I	12/16/08	1040		16	4	☐	☐	☐	☐	☐	☐	☐	
MW-J	12/16/08	1130		16	4	☐	☐	☐	☐	☐	☐	☐	
MW-K	12/16/08	1120		16	4	☐	☐	☐	☐	☐	☐	☐	

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
☐ DWO/GW
☒ SOLID WASTE SECTION

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

SAMPLES COLLECTED BY: (Please Print) Wagoe Fot

SAMPLES RECEIVED IN LAB AT 3.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Wagoe	12/16/08 2:00PM	[illegible]	12/16/08 2:00PM
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

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

№ 173493

FORM #5

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: 6025 **Week:** 50

HERTFORD COUNTY LANDFILL
C/O MUNICIPAL ENGINEERS
P.O. BOX 97
GARNER NC 27529

(919) 772-5393

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	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION													
pH CHECK (LAB)							12				L2	L2	L2
CONTAINER TYPE, P/G						P	P	P	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A		E	E	E
MW-L 12	12/16/08	1110		16	4	G	G	G	G	G	G	G	
MW-M 12	12/16/08	0940		18	5	G	G	G	G	G	G	G	G
Trip Blank					2						G	G	
Equipment Blank 12	12/16/08				3		G				G	G	

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) Bob Hoge / Fox

SAMPLES RECEIVED IN LAB AT 2.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hoge	12/16/08 2:00PM	[illegible]	12/16/08 2:00PM
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

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

№ 173492

FORM #5