

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Richardson Smith Gardner and Associates, Inc.

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

Name: Joan Smyth, PG Phone: 919-828-0577 x221

E-mail: joan@rsgengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Martin County C&D Landfill	1445 Landfill Road, Williamston, NC	59-01	.0500	November 3, 2011

Environmental Status: (Check all that apply)

- Initial/Background Monitoring Detection Monitoring Assessment Monitoring Corrective Action

Type of data submitted: (Check all that apply)

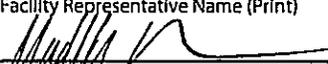
- Groundwater monitoring data from monitoring wells Methane gas monitoring data
 Groundwater monitoring data from private water supply wells Corrective action data (specify) _____
 Leachate monitoring data
 Surface water monitoring data Other(specify) _____

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.

Madeline German, PG Geologist 919-828-0577 x222
 Facility Representative Name (Print) Title (Area Code) Telephone Number
 1/25/2012 Affix NC Licensed/ Professional Geologist Seal
 Signature Date

14 N. Boylan Ave, Raleigh, NC 27603

Facility Representative Address

CO828

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

Revised 6/2009



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Martin County C&D Landfill
Ground Water Monitoring Report

**Fall 2011 Semi-annual
Monitoring Event**

**Martin County C&D Landfill
Williamston, North Carolina
NC Solid Waste Permit # 59-01**

Prepared for:
Martin County Solid Waste Management
P.O. Box 668
Williamston, North Carolina 27892

January 2012



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**Martin County C&D Landfill
Semi-annual Ground Water Monitoring Report
Fall 2011 Sampling Event**

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1.0 Introduction

The Martin County C&D Landfill, currently operating under Solid Waste Permit # 59-01 (C&D) and 15A NCAC 13B.0544, is required to perform semi-annual ground water monitoring. This report presents the Fall 2011 monitoring event results. This event was performed in compliance with NC Solid Waste Regulations.

The ground water monitoring network for the C&D landfill includes four (4) ground water monitoring wells. This report includes a field procedure summary and laboratory analyses for the C&D site. Summary tables of the results and laboratory analytical reports are also provided.

2.0 Site Geology

The Martin Co. landfill is located off McCaskey Road near Williamston in the Coastal Plain physiographic province. According to the Geologic Map of North Carolina (1985) this area is underlain by the Yorktown Formation. The Yorktown Formation is characterized by fossiliferous clay with varying amounts of fine-grained sand, bluish gray, shell material commonly concentrated in lenses.

3.0 Sampling Procedures

The sampling event, performed by Environment 1 personnel on November 3, 2011, consisted of collecting samples from four (4) ground water wells (CDMW-1, CDMW-2, CDMW-3, CDMW-4) shown in **Figure 1**.

Reported sampling methods followed the protocol outlined in the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities (NCDENR, DWM). The depth to water in each well was gauged prior to purging and sampling. Field measurements of pH, specific conductivity and temperature were recorded at each monitoring location. Water table elevations and field parameter results are included in **Tables 1 and 2**, respectively.

Samples were reportedly collected by Environment 1 personnel in laboratory prepared containers for the specified analytical procedures. Ground water samples were properly preserved, placed on ice, and transported to the laboratory facility (Environment 1, Inc.), within the specified holding times for each analysis.

4.0 Field and Laboratory Results

4.1 Laboratory Analysis

Samples were transported to the laboratory facility under proper chain of custody analyzed at the specified DWM Solid Waste Quantitation Limits (SWSLs)¹ for Appendix I and

¹ New Guidelines for Electronic Submittal of Environmental Monitoring Data Memo, NCDENR – Solid Waste Section, October 27, 2006

additional required constituents for C&D landfills. The laboratory report is attached for your review as **Appendix A**.

4.2 Field Results

Depth to ground water and field measurements are included in **Tables 1 and 2**. These measurements are consistent with prior readings at the landfill.

4.3 Laboratory Results

No analyzed constituents were detected above their 15A NCAC 2L.0200 (2L) / Ground Water Protection (GWP) standards. Only one constituent (barium) was detected above the SWSL. **Table 3** summarizes the list of constituents detected. Constituents detected below the SWSL are denoted as “J” values and are also included in **Table 3**.

5.0 Ground Water Characterization

A potentiometric surface map was prepared from ground water elevation data collected during this sampling event. The data indicates that ground water is flowing generally to the northeast and east across most of the site. Hydraulic conductivity data is not available for these wells so ground water velocities could not be calculated. The potentiometric surface map (**Figure 1**) is attached for your review.

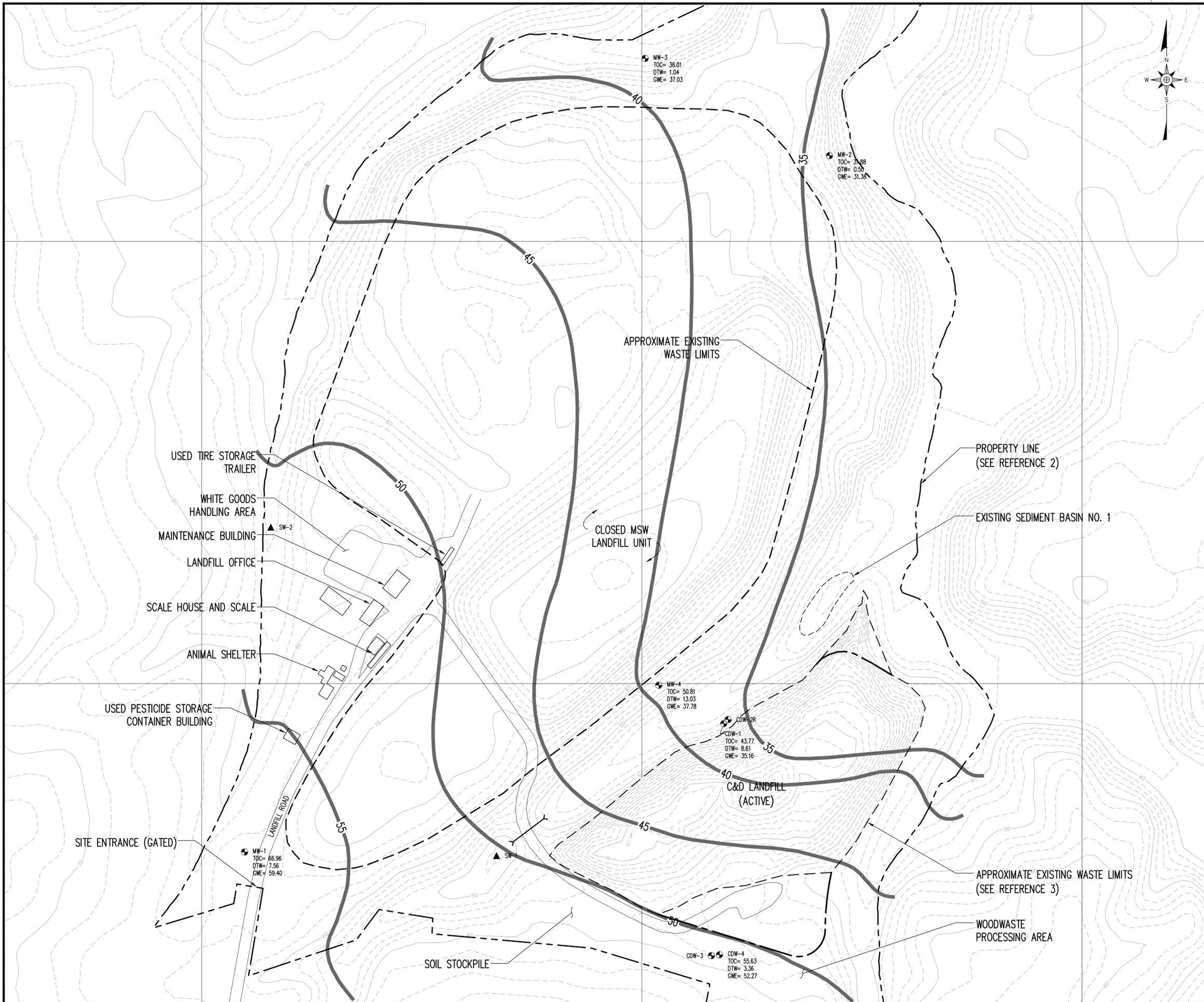
6.0 Conclusions

Monitoring event results indicate detectable concentrations of one (1) inorganic constituent with no exceedances of 2L or GWP standards. No organic constituents were detected during this sampling event. The next ground water monitoring event is scheduled for May 2012. A report will be submitted to NCDENR upon receipt of laboratory analyses.

Figures

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LEGEND

	EXISTING CONTOUR (SEE REFERENCE 1)
	PROPERTY LINE (SEE REFERENCE 2)
	APPROXIMATE EXISTING WASTE LIMITS
	LIMIT OF FUTURE WASTE PLACEMENT
	55 GROUNDWATER SURFACE CONTOUR (5' INTERVAL)(DASHED WHERE INFERRED)
	MW-2 EXISTING MONITORING WELL
	TOC TOP OF CASING ELEVATION
	DTW MEASURED DEPTH TO WATER
	GWE GROUNDWATER SURFACE ELEVATION
	SW-1 SURFACE WATER SAMPLING LOCATION

- REFERENCES**
- OVERALL BASE TOPOGRAPHY REFERENCES NCDOT GIS DEPARTMENT DATA RELEASE MARCH 2005.
 - PROPERTY LINE FROM GIS PARCEL DATA PROVIDED BY MARTIN COUNTY GIS DEPARTMENT.
 - TOPOGRAPHY WITHIN THE APPROXIMATE EXISTING WASTE LIMITS FROM FIELD SURVEY DATED JUNE 22, 2011 BY ROANOKE LAND SURVEYING, WILLIAMSTON, NC.
 - GROUNDWATER POTENTIOMETRIC SURFACE FROM DATA COLLECTED ON NOVEMBER 3, 2011



DATE	NO.	REVISION

RICHARDSON SMITH GARDNER & ASSOCIATES
 14 N. Boylan Ave.
 Raleigh, N.C. 27603
 www.rsgengineers.com
 ph: 919-428-0577
 fax: 919-428-3889

MARTIN COUNTY
 MSW AND C&D LANDFILL
 MONITORING REPORT

POTENTIOMETRIC SURFACE MAP
 FALL 2011 MONITORING EVENT

DESIGNED BY: J.A.S.	DRAWN BY: C.T.J.
CHECKED BY:	PROJECT NO.: MARTIN 11-2
SCALE: AS SHOWN	DATE: JAN. 2012
FILE NAME: MARTIN-D0009	DRAWING NO.:
SHEET NO.:	FIG. 1

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Tables

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By: MG
Date: 11/7/2011

Table 1
Martin County C&D Landfill
Ground Water Elevations
11/3/2011

Well	TOC Elevation (feet)	Depth to Water (feet)	GW Elev (feet)
CDMW-1	43.77	8.61	35.16
CDMW-2r	NA	9.99	NA
CDMW-3	55.98	13.84	42.14
CDMW-4	55.63	3.36	52.27

Well locations and elevations provided by Roanoke Land Surveying (RLS) Sun
Depth to Water data from Environment 1 laboratory report dated 11/22/11 Lab

Table 2
Martin County C&D Landfill
Field Parameters
11/3/2011

Well Identification #	Static Water Level (ft) (DTW)	Temperature (°Celsius)	Specific Conductivity (uS/cm)	pH
CDMW-1	8.61	20	336	7.6
CDMW-2r	9.99	20	764	6.9
CDMW-3	13.84	21	268	7.8
CDMW-4	3.36	21	474	4.4

Note: 1. Data from Environment 1 laboratory report dated 11/22/11 ID # 6052

Table 3
Martin County C&D Landfill
Detected Inorganic and Organic Constituents
11/3/2011

Constituents	SWSL	2L	MW-1	MW-2	MW-3	MW-4
Inorganic Constituents						
Arsenic	10	10	0.39 J	6.9 J	0.42 J	5.3 J
Barium	100	700	4.9 J	58.6 J	27.8 J	119
Cadmium	1	2	0.10 J	0.23 J	0.28 J	0.47 J
Chromium, total	10	10	ND	2.0 J	ND	0.67 J
Mercury	0.2	1	ND	ND	ND	ND
Lead	10	15	ND	0.97 J	0.08 J	9.2 J
Selenium	10	20	ND	1.6 J	ND	2.0 J
Silver	10	20	ND	ND	ND	ND

- SWSL - Solid Waste Quantitation Limit
- ND - Not detected at or above SWSL
- Shading - Concentrations above 2L standard.
- Bold Letters - Constituent detected above SWSL
- J - Detected constituents between method detection limit and SWSL
- NE - SWSL not established

SWSLs, 2L Standards and Results are presented in ug/l.

Data from Environment 1 laboratory report dated 11/22/11 ID # 6052

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Appendix A

Laboratory Analytical Report

Environment 1, Incorporated

Drinking Water ID: 17715
Wastewater ID: 10

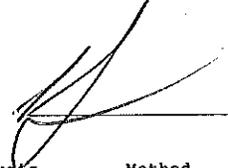
P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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

ID#: 6052

MARTIN CO. LANDFILL (C&D SITE)
MR. MAURICE ROBINSON
P.O. BOX 668
PO BOX 668
WILLIAMSTON ,NC 27892

DATE COLLECTED: 11/03/11
DATE REPORTED : 11/22/11

REVIEWED BY: 

PARAMETERS	MDL	SWSL	MW-1	MW-2	MW-3	MW-4	Analysis		Method
							Date	Analyst	
PH (field measurement), Units			7.6	6.9	7.8	4.4	11/03/11	RJH	SM4500B
Arsenic, ug/l	0.10	10.0	0.39 J	6.9 J	0.42 J	5.3 J	11/11/11	LFJ	EPA200.8
Barium, ug/l	0.02	100.0	4.9 J	58.6 J	27.8 J	119	11/11/11	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	0.10 J	0.23 J	0.28 J	0.47 J	11/11/11	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	--- U	2.0 J	--- U	0.67 J	11/11/11	LFJ	EPA200.8
Lead, ug/l	0.02	10.0	--- U	0.97 J	0.08 J	9.2 J	11/11/11	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20	--- U	--- U	--- U	--- U	11/11/11	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0	--- U	1.6 J	--- U	2.0 J	11/11/11	LFJ	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U	--- U	11/11/11	LFJ	EPA200.8
Conductivity (at 25c), uMhos/cm	1.0	1.0	336	764	268	474	11/03/11	RJH	SM2510B
Temperature, °C			20	20	21	21	11/03/11	RJH	SM2550B
Static Water Level, feet			8.61	9.99	13.84	3.36	11/03/11	RJH	
Well Depth, feet			53.18	23.12	53.02	19.22	11/03/11	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

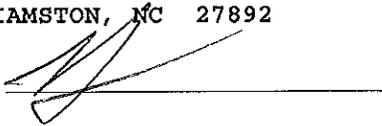
P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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

CLIENT: MARTIN CO. LANDFILL (C&D SITE)
MR. MAURICE ROBINSON
P.O. BOX 668
PO BOX 668
WILLIAMSTON, NC 27892

CLIENT ID: 6052
ANALYST: MAO
DATE COLLECTED: 11/03/11
DATE ANALYZED: 11/11/11
DATE REPORTED: 11/22/11

Page: 1

REVIEWED BY: 

VOLATILE ORGANICS EPA METHOD 8260B

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

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6023

MARTIN COUNTY LANDFILL
MR. MAURICE ROBINSON
P.O. BOX 668
WILLIAMSTON, NC 27892

DATE COLLECTED: 11/03/11
DATE REPORTED: 11/22/11

REVIEWED BY: 

PARAMETERS	MDL	SWSL	Well	Well	Well	Well	SW-1	Analysis		Method
			#1	#2	#3	#4		Date	Analyst	Code
PH (field measurement), Units			7.2	5.3	6.8	6.2	6.1	11/03/11	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	0.28 J	--- U	--- U	0.16 J	--- U	11/11/11	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	2.3 J	1.0 J	0.19 J	42	1.1 J	11/11/11	LFJ	EPA200.8
Barium, ug/l	0.02	100.0	58.5 J	225	137	83.8 J	44.6 J	11/11/11	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	0.22 J	3	--- U	--- U	--- U	11/11/11	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	0.14 J	--- U	0.08 J	--- U	--- U	11/11/11	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	0.28 J	1.1 J	0.08 J	0.55 J	1.1 J	11/11/11	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	0.43 J	0.65 J	0.18 J	0.53 J	0.56 J	11/11/11	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	--- U	--- U	--- U	0.93 J	0.92 J	11/11/11	LFJ	EPA200.8
Lead, ug/l	0.02	10.0	0.11 J	--- U	--- U	0.06 J	0.65 J	11/11/11	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	1.1 J	4.1 J	1.3 J	2.7 J	1.9 J	11/11/11	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0	--- U	2.8 J	0.64 J	--- U	0.24 J	11/11/11	LFJ	EPA200.8
Silver, ug/l	0.02	10.0	--- U	11/11/11	LFJ	EPA200.8				
Thallium, ug/l	0.02	5.5	--- U	11/11/11	LFJ	EPA200.8				
Vanadium, ug/l	0.14	25.0	1.2 J	1.5 J	0.63 J	1.5 J	2.0 J	11/11/11	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0	3.9 J	2.3 J	1.2 J	2.7 J	5.6 J	11/11/11	LFJ	EPA200.8
Conductivity (at 25c), uMhos/cm	1.0	1.0	215	918	930	1032	142	11/03/11	RJH	SM2510B
Temperature, °C			20	19	19	20	13	11/03/11	RJH	SM2550B
Static Water Level, feet			7.56	0.50	1.04	13.03		11/03/11	RJH	
Well Depth, feet			20.28	20.01	19.04	20.64		11/03/11	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6023

MARTIN COUNTY LANDFILL
MR. MAURICE ROBINSON
P.O. BOX 668
WILLIAMSTON, NC 27892

DATE COLLECTED: 11/03/11
DATE REPORTED : 11/22/11

REVIEWED BY: 

PARAMETERS	MDL	SWSL	SW-2		SW-3		Analysis	Method
					Date	Analyst	Code	
PH (field measurement), Units			6.7	7.0	11/03/11	RJH	SM4500HB	
Antimony, ug/l	0.14	6.0	---	U	11/11/11	LFJ	EPA200.8	
Arsenic, ug/l	0.10	10.0	0.96 J		11/11/11	LFJ	EPA200.8	
Barium, ug/l	0.02	100.0	48.4 J		11/11/11	LFJ	EPA200.8	
Beryllium, ug/l	0.02	1.0	---	U	11/11/11	LFJ	EPA200.8	
Cadmium, ug/l	0.02	1.0	0.06 J		11/11/11	LFJ	EPA200.8	
Cobalt, ug/l	0.03	10.0	1.2 J		11/11/11	LFJ	EPA200.8	
Copper, ug/l	0.02	10.0	0.56 J		11/11/11	LFJ	EPA200.8	
Total Chromium, ug/l	0.04	10.0	1.3 J		11/11/11	LFJ	EPA200.8	
Lead, ug/l	0.02	10.0	1.0 J		11/11/11	LFJ	EPA200.8	
Nickel, ug/l	0.04	50.0	1.9 J		11/11/11	LFJ	EPA200.8	
Selenium, ug/l	0.20	10.0	0.20 J		11/11/11	LFJ	EPA200.8	
Silver, ug/l	0.02	10.0	---	U	11/11/11	LFJ	EPA200.8	
Thallium, ug/l	0.02	5.5	---	U	11/11/11	LFJ	EPA200.8	
Vanadium, ug/l	0.14	25.0	2.6 J		11/11/11	LFJ	EPA200.8	
Zinc, ug/l	0.24	10.0	6.0 J		11/11/11	LFJ	EPA200.8	
Conductivity (at 25c), uMhos/cm	1.0	1.0	160		11/03/11	RJH	SM2510B	
Temperature, °C			11		11/03/11	RJH	SM2550B	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

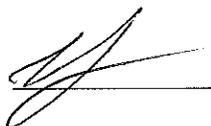
P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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

CLIENT: MARTIN COUNTY LANDFILL
MR. MAURICE ROBINSON
P.O. BOX 668
WILLIAMSTON, NC 27892

CLIENT ID: 6023
ANALYST: MAO
DATE COLLECTED: 11/03/11
DATE REPORTED: 11/22/11

Page: 1

REVIEWED BY: 

VOLATILE ORGANICS EPA METHOD 8260B

PARAMETERS, ug/l	Date Analyzed:		11/08/11	11/08/11	11/08/11	11/11/11	11/11/11
	MDL	SWSL	Well #1	Well #2	Well #3	Well #4	SW-1
1. Chloromethane	0.77	1.0	--- U				
2. Vinyl Chloride	0.63	1.0	--- U	--- U	1.40	6.30	--- U
3. Bromomethane	0.67	10.0	--- U				
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	0.90 J	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U				
6. 1,1-Dichloroethene	0.17	5.0	--- U				
7. Acetone	9.06	100.0	--- U				
8. Iodomethane	0.26	10.0	--- U				
9. Carbon Disulfide	0.23	100.0	--- U				
10. Methylene Chloride	0.64	1.0	--- U				
11. trans-1,2-Dichloroethene	0.23	5.0	--- U				
12. 1,1-Dichloroethane	0.20	5.0	--- U	1.10 J	0.80 J	1.30 J	--- U
13. Vinyl Acetate	0.20	50.0	--- U				
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	1.30 J	26.50	0.40 J	--- U
15. 2-Butanone	2.21	100.0	3.10 J	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U				
17. Chloroform	0.25	5.0	--- U				
18. 1,1,1-Trichloroethane	0.19	1.0	--- U				
19. Carbon Tetrachloride	0.22	1.0	--- U				
20. Benzene	0.24	1.0	--- U	1.90	0.80 J	4.20	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U				
22. Trichloroethene	0.23	1.0	--- U				
23. 1,2-Dichloropropane	0.21	1.0	--- U				
24. Bromodichloromethane	0.21	1.0	--- U				
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U				
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U				
27. Toluene	0.23	1.0	--- U	--- U	--- U	0.90 J	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U				
29. 1,1,2-Trichloroethane	0.25	1.0	--- U				
30. Tetrachloroethene	0.17	1.0	--- U				
31. 2-Hexanone	1.57	50.0	--- U				
32. Dibromochloromethane	0.24	3.0	--- U				
33. 1,2-Dibromoethane	0.26	1.0	--- U				
34. Chlorobenzene	0.30	3.0	--- U	1.20 J	0.60 J	11.80	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U				
36. Ethylbenzene	0.21	1.0	--- U				
37. Xylenes	0.68	5.0	--- U	--- U	--- U	5.70	--- U
38. Dibromomethane	0.28	10.0	--- U				
39. Styrene	0.19	1.0	--- U				
40. Bromoform	0.20	3.0	--- U				
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U				
42. 1,2,3-Trichloropropane	0.43	1.0	--- U				
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	4.70	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U				
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U				
46. Acrylonitrile	2.72	200.0	--- U				
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U				

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

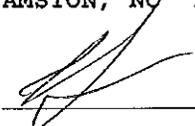
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Page: 2

REVIEWED BY: 

VOLATILE ORGANICS EPA METHOD 8260B

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

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