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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

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

Name: Madeline German Phone: 919-828-0577x222

E-mail: madeline@rsgengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Bladen Co. Closed MSW Landfill	1522 Mercer Mill Road, Elizabethtown, NC	09-05	.0500	March 15, 2012

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

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

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Madeline German, PG — Geologist — 919-828-0577x222

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

Signature — 4-20-12 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2275 4/20/12 GEOLOGIST MADELINE GERMAN

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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Bladen County MSW Landfill

Ground Water Monitoring Report

Spring 2012 Semi-annual Monitoring Event

Bladen County Landfill
Elizabethtown, North Carolina
NC Solid Waste Permit # 09-05

Prepared for:
Bladen County Solid Waste Management
1522 Mercer Mill Road
Elizabethtown, North Carolina 28337

April 2012

RICHARDSON SMITH GARDNER
& ASSOCIATES
ENGINEERING & GEOLOGICAL
SERVICES

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Bladen County – MSW Landfill
Semi-annual Ground Water Monitoring Report
Spring 2012 Sampling Event

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1.0 Introduction

The Closed Bladen County MSW Landfill, (Solid Waste Permit # 09-05) is required to perform semi-annual ground water monitoring as a condition of the water quality monitoring program. This report, prepared by Richardson Smith Gardner and Associates, Inc (RSG), presents the 2012 spring monitoring event results. This event was performed on March 15, 2012 to comply with NC Solid Waste Regulations.

As specified in rule 15A NCAC 13B .1632 (j) and the Solid Waste Section (SWS) Environmental Monitoring Report Form, this report includes field procedure and laboratory analyses summaries for the closed MSW site. A potentiometric surface map, results summary tables and laboratory analytical reports are also included.

2.0 Site Geology

The Bladen Co. landfill is located off Highway 87, east of Elizabethtown in the Coastal Plain physiographic province. According to the *Geologic Map of North Carolina (1985)* this area is underlain by the Black Creek Formation. The Black Creek Formation is characterized by gray to black lignitic clay with thin beds of fine grained sands and thick lenses of cross-grained sand.

3.0 Sampling Procedures

The sampling event was reportedly performed by Environment 1, Incorporated (Greenville, NC) personnel on March 15, 2012, The ground water monitoring network for the MSW landfill includes seven ground water monitoring wells (MW-1, MW-3, MW-4, MW-5A, MW-7, MW-8 & MW-9) and two surface water locations (SW-1 & SW-2). MW-1 serves as the background location. **Figure 1** illustrates sampling locations.

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 obtained from each well. Water table elevations and field parameter results are included in **Tables 1 and 2,** respectively.

Samples were 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 hold times for each analysis.

4.0 Field and Laboratory Results

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

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

constituents. The laboratory report is attached for your review as **Appendix A**.

4.1 Field Parameter Results

Field parameters pH, conductivity and temperature were collected by Environment 1; data is presented in **Table 2**. These data are consistent with previously recorded field measurements at the site.

4.2 Inorganic and Organic Constituent Results

Water samples were analyzed to the laboratory established Method Detection Limits (MDL).

One inorganic constituent, barium (MW-1 & MW-5A), was detected above the SWSL. No inorganics were reported above the NCAC 2L.0200 2L Standard (2L).

Three organic constituents: 1,4-dichlorobenzene, chlorobenzene and vinyl chloride, were detected above their 2L Standards (and SWSL) in MW-9. Benzene was detected at the SWSL and 2L Standard.

No inorganic or organic constituents were detected in the surface water samples.

Table 3 summarizes the detected constituent list. Several constituents were detected above the method detection limit at concentrations below the SWSLs. These are listed as "J" values on **Table 3**, indicating they are non-quantifiable values.

5.0 Ground Water Characterization

Figure 1 presents a potentiometric surface map for the uppermost aquifer was prepared from ground water elevation data from this sampling event. The data indicates that ground water is flowing generally to the north across most of the site. Hydraulic conductivity data was not available for these wells; therefore, ground water velocities could not be calculated.

6.0 Conclusions

The reported barium concentrations are not likely due to leachate but a product of natural deposit erosion due to suspended solids in the sample.

1,4-dichlorobenzene, chlorobenzene and vinyl chloride were detected above the SWSL in MW-9. Reported concentrations are in-line with historically reported detections in this well. Monitoring well MW-9 is located immediately adjacent to the waste and adjacent to an unnamed tributary of Brown's Creek.

Surface water sampling did not indicate contaminant migration.

The next ground water monitoring event is scheduled for September 2012, and a report will be submitted to NCDENR.

Figures

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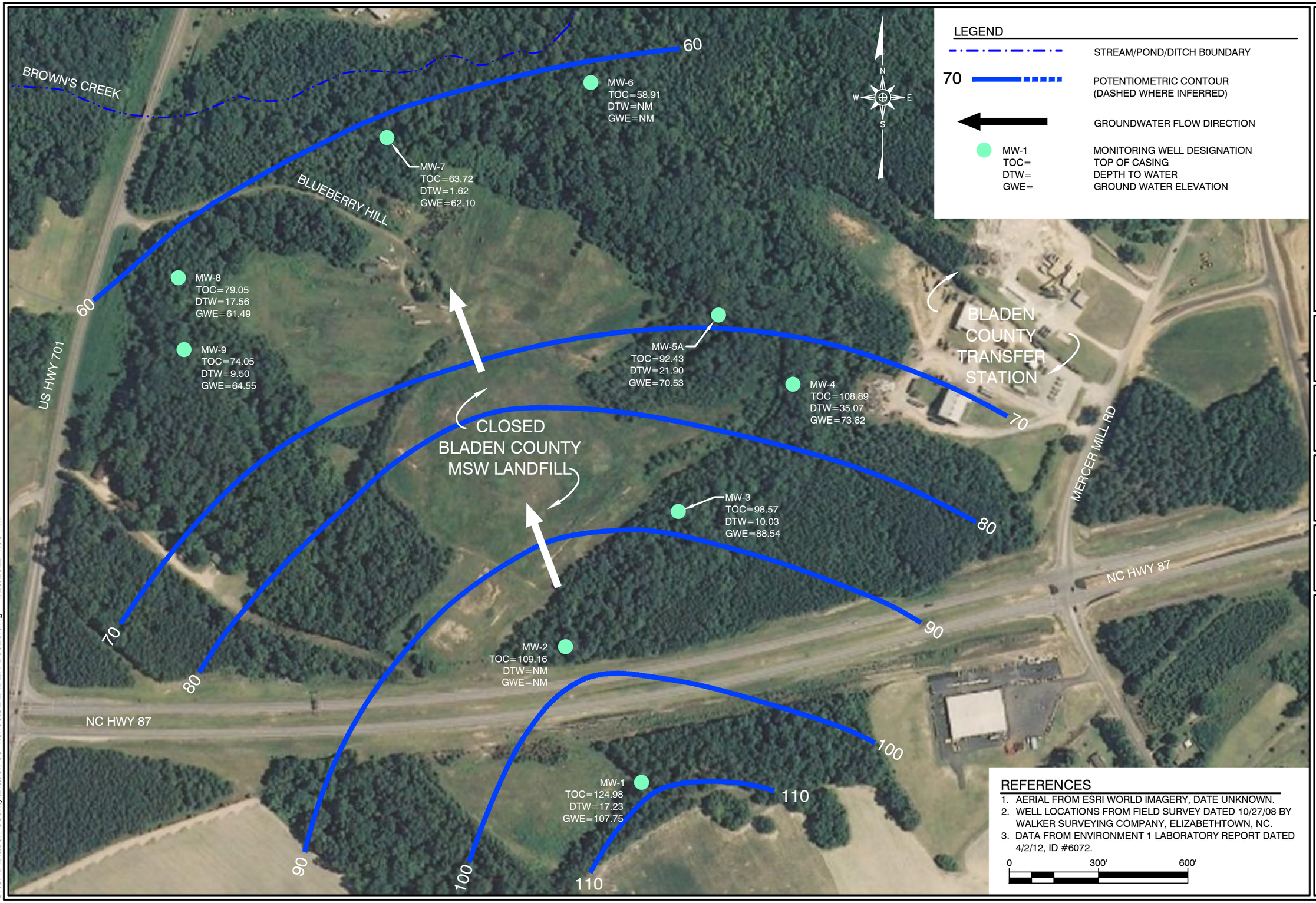

RICHARDSON SMITH GARDNER & ASSOCIATES
NC LIC. NO. C-0910 (Engineering)
14 N. Boylan Ave.
Raleigh, N.C. 27603
ph: 919-828-0577
fax: 919-828-3899
www.rsgengineers.com

FIGURE NO.	1
FILE NAME	BLADEN-B0026
SCALE:	AS SHOWN
PROJECT NO.	BLADEN 08-4
CHECKED BY:	M.M.G.
DRAWN BY:	C.T.J.
DATE:	Apr. 2012

TITLE: BLADEN COUNTY MSW LANDFILL POTENTIOMETRIC SURFACE MAP SPRING 2012

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Tables

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By: MG
Date: 4/5/2012

Table 1
Bladen County MSW Landfill
Ground Water Elevation Data
3/15/2012

Well	Well location Northing	Well location Easting	TOC Elevation (feet)	Depth to Water (feet)	GW Elev (feet)
MW-1	310645.01	2117281.60	124.98	17.23	107.75
MW-3	311555.58	2117405.04	98.57	10.03	88.54
MW-4	311983.00	2117790.01	108.89	35.07	73.82
MW-5A	312215.61	2117539.78	92.43	21.90	70.53
MW-7	312812.23	2116426.04	63.72	1.62	62.10
MW-8	312341.38	2115725.65	79.05	17.56	61.49
MW-9	312099.55	2115744.51	74.05	9.50	64.55

Well locations and elevations provided by Walker Surveying Co., Elizabethtown, NC from field survey conducted on 10/27/08.

Data from Environment 1 laboratory report dated 04/02/12 ID# 6072.

By: MG
Date: 4/5/2012

Table 2
Bladen County MSW Landfill
Field Parameters
3/15/2012

Well Identification #	Static Water Level (ft) (DTW)	Temperature (°Celsius)	Specific Conductivity (uS/cm)	pH
MW-1	17.23	20	209	6.3
MW-3	10.03	18	603	6.0
MW-4	35.07	20	677	6.8
MW-5A	21.9	20	1174	6.6
MW-7	1.62	18	769	6.3
MW-8	17.56	20	402	6.2
MW-9	9.5	18	1846	6.2
SW-1	NM	20	146	6.5
SW-2	NM	18	626	6.7

Note: 1. Data from Environment 1 laboratory report dated 04/02/12, ID# 6072.
2.NM = Not Measured

By: MG
Date: 4/5/2012

Table 3
Bladen County MSW Landfill
Detected Inorganic and Organic Constituents
3/15/2012

Constituents	MDL	SWSL	2L or GWP	MW-1	MW-3	MW-4	MW-5A	MW-7	MW-8	MW-9	SW-1	SW-2
Inorganic Constituents												
Arsenic	0.10	10	10	0.17 J	3.8 J	<0.10	0.19 J	0.33 J	<0.10	3.9 J	0.53 J	0.29 J
Barium	0.02	100	700	**102**	28.3 J	42.9 J	**115**	31.0 J	53.9 J	53.6 J	33.2 J	43.6 J
Cadmium	0.02	1	2	0.15 J	<0.02	0.12 J	<0.02	0.19 J	0.08 J	<0.02	0.05 J	0.05 J
Total Chromium	0.04	10	10	0.23 J	0.27 J	0.26 J	<0.04	<0.04	0.22 J	0.54 J	0.73 J	0.55 J
Lead	0.02	10	15	0.58 J	<0.02	0.24 J	<0.02	<0.02	<0.02	0.04 J	0.51 J	<0.02
Mercury	0.05	0.2	1	<0.05	<0.05	<0.05	0.08 J	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium	0.20	10	20	1.0 J	0.28 J	<0.20	0.52 J	0.62 J	0.43 J	6.9 J	<0.20	<0.20
Organic Constituents												
1,4-Dichlorobenzene	0.39	1	6	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	**1.60**	<0.39	<0.39
Benzene	0.24	1	1	<0.24	0.90 J	<0.24	<0.24	<0.24	<0.24	1.00	<0.24	<0.24
Chlorobenzene	0.30	3	50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**5.80**	<0.30	<0.30
Cis-1,2-Dichloroethene	0.25	5	70	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	2.6 J	<0.25	<0.25
Vinyl Chloride	0.63	1	0.03	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	**2.30**	<0.63	<0.63

SWSL - Solid Waste Quantitation Limit
MDL - Method Detection Limit
Shading - Concentrations above 2L standard.
Bold Letters - Constituent detected above SWSL
J - Laboratory identified constituents below SWSL limit but above method detection limit.

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

Data from Environment 1 laboratory report dated 04/02/12, ID# 6072.

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Appendix A

Laboratory Analytical Report

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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#: 6072

BLADEN COUNTY MSW
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
133 SPRING AVENUE
FUQUAY VARINA ,NC 27526

DATE COLLECTED: 03/15/12
DATE REPORTED : 04/02/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-1	MW-3	MW-4	MW-5A	MW-7	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.3	6.0	6.8	6.6	6.3	03/15/12	RJH	SM4500HB
Arsenic, ug/l	0.10	10.0	0.17 J	3.8 J	--- U	0.19 J	0.33 J	03/20/12	CMF	EPA200.8
Barium, ug/l	0.02	100.0	102	28.3 J	42.9 J	115	31.0 J	03/20/12	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.15 J	--- U	0.12 J	--- U	0.19 J	03/20/12	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.23 J	0.27 J	0.26 J	--- U	--- U	03/20/12	CMF	EPA200.8
Lead, ug/l	0.02	10.0	0.58 J	--- U	0.24 J	--- U	--- U	03/20/12	CMF	EPA200.8
Mercury, ug/l	0.05	0.20	--- U	--- U	--- U	0.08 J	--- U	03/20/12	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	1.0 J	0.28 J	--- U	0.52 J	0.62 J	03/20/12	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U	--- U	--- U	03/20/12	CMF	EPA200.8
Conductivity (at 25c), uMhos/cm	1.0	1.0	209	603	677	1174	769	03/15/12	RJH	SM2510B
Temperature, °C			20	18	20	20	18	03/15/12	RJH	SM2550B
Static Water Level, feet			17.23	10.03	35.07	21.90	1.62	03/15/12	RJH	
Well Depth, feet			41.12	21.52	44.32	31.74	15.14	03/15/12	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6072

BLADEN COUNTY MSW
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
133 SPRING AVENUE
FUQUAY VARINA ,NC 27526

DATE COLLECTED: 03/15/12
DATE REPORTED : 04/02/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-8	MW-9	SW-1	SW-2	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.2	6.2	6.5	6.7		03/15/12	RJH	SM4500HB
Arsenic, ug/l	0.10	10.0	--- U	3.9 J	0.53 J	0.29 J		03/20/12	CMF	EPA200.8
Barium, ug/l	0.02	100.0	53.9 J	53.6 J	33.2 J	43.6 J		03/20/12	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.08 J	--- U	0.05 J	0.05 J		03/20/12	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.22 J	0.54 J	0.73 J	0.55 J		03/20/12	CMF	EPA200.8
Lead, ug/l	0.02	10.0	--- U	0.04 J	0.51 J	--- U		03/20/12	CMF	EPA200.8
Mercury, ug/l	0.05	0.20	--- U	--- U	--- U	--- U		03/20/12	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	0.43 J	6.9 J	--- U	--- U		03/20/12	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U	--- U		03/20/12	CMF	EPA200.8
Conductivity (at 25c), uMhos/cm	1.0	1.0	402	1846	146	626		03/15/12	RJH	SM2510B
Temperature, °C			20	18	20	18		03/15/12	RJH	SM2550B
Static Water Level, feet			17.56	9.50				03/15/12	RJH	
Well Depth, feet			30.00	17.58				03/15/12	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

CLIENT: BLADEN COUNTY MSW
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
133 SPRING AVENUE
FUQUAY VARINA, NC 27526

CLIENT ID: 6072

ANALYST: MAO
DATE COLLECTED: 03/15/12
DATE REPORTED: 04/02/12

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 03/21/12 MW-1	03/21/12 MW-3	03/21/12 MW-4	03/21/12 MW-5A	03/21/12 MW-7
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	0.90 J	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

CLIENT: BLADEN COUNTY MSW
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
133 SPRING AVENUE
FUQUAY VARINA, NC 27526

CLIENT ID: 6072

ANALYST: MAO
DATE COLLECTED: 03/15/12
DATE REPORTED: 04/02/12

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 03/21/12 MW-8	03/21/12 MW-9	03/23/12 SW-1	03/23/12 SW-2	03/23/12 Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	2.30	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	2.60 J	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	1.00	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	5.80	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	1.60	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

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

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

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

CHAIN OF CUSTODY RECORD

CLIENT:6072 **Week: 12**

BLADEN COUNTY MSW
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
133 SPRING AVENUE
FUQUAY VARINA NC 27526

(919) 828-0577

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

CHLORINE NEUTRALIZED AT COLLECTION																							
pH CHECK (LAB)			12				12	12	12														
CONTAINER TYPE, P/G	P	P	P	P		G	G	G															
CHEMICAL PRESERVATION	A	A	A	A		E	E	E															
PARAMETERS	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												
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME																					
MW-1	03 1512	1115		20	5	G	G	G	G	G	G	G	G										
MW-3	03 1512	1025		18	4	G	G	G	G	G	G	G											
MW-4	03 1512	1020		20	4	G	G	G	G	G	G	G											
MW-5A	03 1512	1010		20	4	G	G	G	G	G	G	G											
MW-7	03 1512	1000		18	4	G	G	G	G	G	G	G											
MW-8	03 1512	1045		20	4	G	G	G	G	G	G	G											
MW-9	03 1512	1100		20	4	G	G	G	G	G	G	G											
SW-1	03 1512	1170		20	4	G	G	G	G		G	G											
SW-2	03 1512	1015		18	4	G	G	G	G		G	G											
Trip Blank					2																		

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [x] SOLID WASTE SECTION

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

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

SAMPLES COLLECTED BY: (Please Print)
H. Cook / FOX

SAMPLES RECEIVED IN LAB AT 04 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
H. Cook	1512	B	3/15/12 1327
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

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

№ 239105