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):

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 Phone: 919-828-0577 x122

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)
Davidson County C&D Landfill	220 Landfill Road Lexington, NC 27292	29-06	.0500	September 25, 2009

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.

Joan A. Smyth, P.G.	Senior Hydrogeologist	919-828-0577 x122
Facility Representative Name (Print)	Title	(Area Code) Telephone Number
Joan A. Smyth	11/19/09	Affix NC Licensed Professional Geologist/Engineer Seal here:
Signature	Date	

NORTH CAROLINA LICENSED SEAL 1359 GEOLOGIST JOAN A. SMYTH

Revised 01/2007

Ground Water Monitoring Report

September 2009 Monitoring Event

Davidson County

Construction & Demolition Debris Landfill
Lexington, North Carolina
NC Solid Waste Permit # 29-06

Prepared for:

Davidson County Integrated Solid Waste
1242 Old Highway 29
Thomasville, NC 27360-0024

November 2009

RICHARDSON SMITH GARDNER
& ASSOCIATES
ENGINEERING & GEOLOGICAL
SERVICES

Ground Water Monitoring Report
Davidson County Construction & Demolition Debris Landfill
September 2009 Semi - Annual Report

Prepared for:

Davidson County Integrated Solid Waste
1242 Old Highway 29
Thomasville, NC 27360

RSG Project No. **DAVDCO - 13A**

Joan A. Smyth, P.G.
Senior Hydrogeologist

NORTH CAROLINA LICENSED SEAL 1369 GEOLOGIST JOAN A. SMYTH

November 2009

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

PRINTED ON 100% RECYCLED PAPER

Davidson County C&D Landfill

Ground Water Monitoring Report
September 2009 Monitoring Event

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1.0 Introduction

On September 25th 2009, Richardson Smith Gardner & Associates, Inc. (RSG), personnel performed the required semi-annual ground water monitoring event at the Davidson County C&D Landfill. This sampling event satisfies the requirements of the monitoring programs for this site 15A NCAC 13B.0600. The following report summarizes the monitoring event, sampling procedures, field and laboratory results and ground water characterization as required by NC Solid Waste Regulations. Also included are summary tables of ground water measurements, field parameters, detected constituents and the laboratory analytical report.

2.0 Site Geology

The Davidson County Landfill facility is located in the Piedmont Physiographic Province of North Carolina. More specifically, the Geologic Map of North Carolina (1985) indicates that the site lies within, but at the western margin of, the Carolina Slate Belt. This belt includes predominantly volcanic and sedimentary rocks of Late Proterozoic to Cambrian age that have been metamorphosed and intruded by numerous igneous plutons. The boundary zone between the Carolina Slate Belt and the adjacent Charlotte Belt is known as the Gold Hill/Silver Hill shear zone.

The most detailed mapping of the area was published by the US Geological Survey in the Geologic Map of Charlotte by Goldsmith, Milton and Horton (1988). This mapping indicates that the site vicinity is underlain by three stratigraphic units: metavolcanic rocks (mv), and felsic metavolcanic rocks (mvf).

The metavolcanic rocks include mafic, intermediate and felsic volcanic rocks, rocks from the Flat Swamp Member of the Cid Formation, and metavolcanic rocks of the Battleground Formation. The Battleground Formation is characterized as a quartz-sericite schist and phyllite. It contains subordinate beds of quartz-pebble conglomerate, quartzite, kyanite or sillmanite quartzite and manganiferous schist. The felsic metavolcanic rocks (mvf) are fine to medium grained rhyolitic and rhyodacitic metatuffs. Locally these are coarse-grained. This unit contains minor intermediate and mafic metavolcanic rocks and is probably correlative, at least in part, with felsic metavolcanic rocks of the Battleground Formation. Metamorphosed granitic plutons are also mapped in the area of the site. These plutons are megacrystic and well foliated. The rocks of this region are intruded by a swarm of metagabbro and metabasalt dikes and conformable sheets. This metagabbro typically crops out as round residual boulders that show no foliation except in the Gold Hill/Silver Hill shear zone.

Piezometers were installed in and around the C&D footprint during July, 1998 and February, 2000 as a part of site permitting. Eight piezometers were installed by a combination of hollow stem auger, air rotary, air hammer and rock coring techniques. In general, auger refusal was encountered between the surface and 25 feet below grade. Half of the borings (B-2 through B-5) encountered auger refusal at the surface, the remaining borings (B-1, and B-6 through B-8) encountered auger refusal between 6 feet and 25 feet.

Soils encountered include sandy silt and partially weathered rock. In this instance, partially weathered rock is defined as soils with a standard penetration test blow count of 100+ blows per foot.

3.0 Davidson County C&D Landfill Monitoring Event

3.1 Sampling Procedures

Ground water sampling was performed at the four (4) ground water monitoring well locations associated with the C&D landfill. It should be noted that due to construction of Phase-2, CDMW-4 was abandoned and replaced with CDMW-4A. The surface water sampling location (SW-3) associated with this site was found to be dry during this event; therefore no sample could be collected. Sampling procedures followed the protocols set forth in the site's Sampling and Analysis Plan[1] and the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities. Each well was gauged to determine ground water depth and then purged of three well volumes or until dry. The wells were purged and allowed to stabilize prior to sample collection. Ground water purging and sample collection was performed using a factory sealed Teflon™ bailer.

Field measurements of temperature, pH, turbidity, and conductivity were taken at each well. Field data sheets are included in **Appendix A** while monitoring well boring logs are included in **Appendix B**. Samples were collected in laboratory containers provided by Environment 1, Inc. (NC Laboratory Certification # 10). Upon collection, the samples were sealed, placed on ice, and transported via overnight delivery to the laboratory. Field blanks were also collected for quality control purposes.

During the sampling process, each well was inspected for signs of damage or unusual conditions. All wells were found to be in good condition and free of obstructions. A surface water sample from location SW-3 could not be collected as no water was found in this location.

3.2 Field and Laboratory Results

Ground water samples were collected from the four monitoring wells (CDMW-2, CDMW-3, CDMW-4A and CDMW-5) located down gradient of the C&D Landfill. Field parameters were consistent with previous sampling events. Analysis of these samples indicated detectable levels above the Solid Waste Section Limit (SWSL)[2] of barium, beryllium, copper, total chromium, iron, manganese, lead and zinc. The results are summarized in **Table 3.** Three (3) inorganic constituents were detected above their 15A NCAC 2L.0200 (2L) / Ground Water Protection (GWP) standards:

- iron;
- manganese; and

[1] Davidson County C&D Landfill Water Quality Monitoring Plan. G.N. Richardson and Associates, June 1998.
[2] New Guidelines for electronic submittal of environmental monitoring data memo, NCDENR DWM, Solid Waste Section, October 27, 2006.

- lead.

These elevated concentrations are likely due to suspended solids in the samples which can yield results that are biased high

Detected constituents below the Solid Waste Section Limit (SWSL) are denoted as "J" values and are also included in **Table 3**. The laboratory report is included in **Appendix C**.

4.0 Site Ground Water Characterization

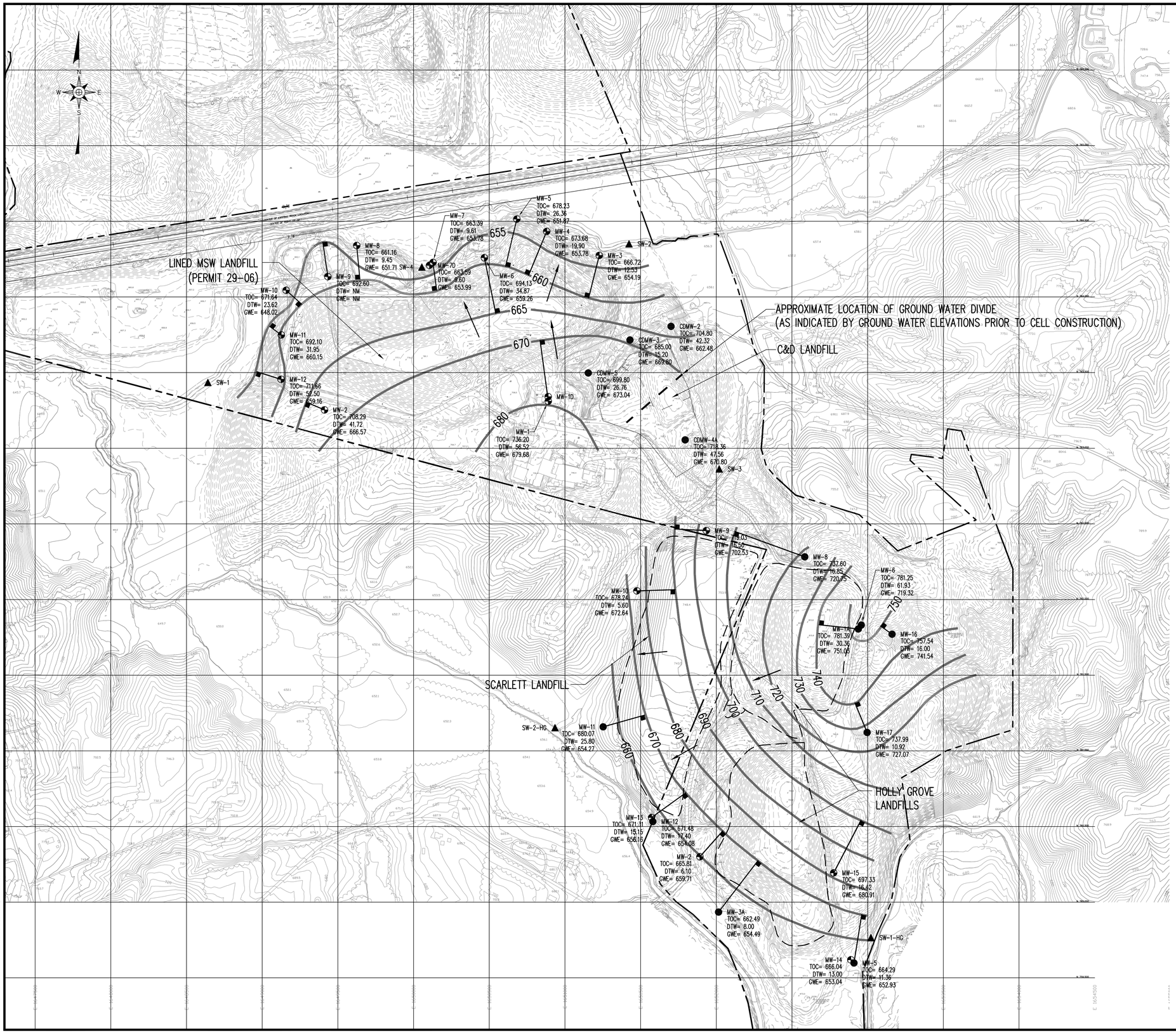
A potentiometric surface map was prepared for the entire site from ground water elevation data collected during this sampling event.

Ground water at the C&D landfill is migrating both to the northwest and southeast with a ground water divide located at the site. The ground water divide was made evident during site permitting when more piezometers were located in the area. The site topography also indicates a likely ground water divide across this site. The ground water to the north of the divide is likely influenced by the presence of the sedimentation basin adjacent to Phase 1. The potentiometric surface for the landfill property is shown on **Figure 1**.

5.0 Conclusions

The results presented above from the C&D landfill indicate three (3) inorganic constituents at concentrations above the 2L groundwater standards. These are likely due to suspended sediments in the samples and are not indicative of ground water impact from the landfill. The next ground water monitoring event is scheduled for April 2010. A monitoring report will be submitted after receipt of analytical data from that event.

Figures



LEGEND

MW-1A	PREVIOUSLY INSTALLED MONITORING WELL
MW-5	BEDROCK MONITORING WELL
SW-2	EXISTING SURFACE WATER MONITORING STATION
	GROUNDWATER SURFACE COUNTOUR (DASHED WHERE INFERRED)
	DIRECTION OF GROUNDWATER FLOW
	PROPERTY LINE
	WASTE BOUNDARY
	MEASUREMENT FOR HYDRAULIC GRADIENT CALCULATION
N/M	NOT MONITORED

NOTE:

1. GROUND WATER DATA RECORDED ON SEPTEMBER 22-25 2009 BY RICHARDSON SMITH GARDNER & ASSOCIATES, INC. PERSONNEL.

NO.	DATE	REVISION

RICHARDSON SMITH GARDNER & ASSOCIATES
NC LIC. NO. C-0555 Engineering
14 N. Boylan Ave.
Raleigh, N.C. 27603
ph: 919-828-0577
fax: 919-828-3899
www.rsgengineers.com

SEAL

SEAL

PROJECT TITLE: DAVIDSON COUNTY LANDFILLS

DRAWING TITLE: POTENTIOMETRIC SURFACE MAP LINED LANDFILL, C&D AND HOLLY GROVE LANDFILLS (FALL 2009)

DESIGNED BY: J.A.S.	DRAWN BY: C.T.J.
CHECKED BY:	PROJECT NO.: DAVDCO-4
SCALE: AS SHOWN	DATE: NOV. 2009
FILE NAME: DAVDCO-D0517	
SHEET NO.	DRAWING NO. FIG.1

G:\CAD\Davidson\Davdco-Eglands\DAVDCO-D0517.dwg - 11/6/2009 11:08 AM

Tables

By: KBS
Date: 11/6/2009

Table 1
Ground Water Elevations
Davidson County C&D Landfill
9/25/2009

Well	Northing	Easting	TOC Elevation (feet)	Water Level (feet)	GW Elev (feet)
CDMW-2	763805.91	1651700.59	704.80	42.32	662.48
CDMW-3	763715.69	1651429.31	685.00	15.20	669.80
CDMW-4A	763055.46	1651793.86	718.36	47.56	670.80
CDMW-5	763497.87	1651153.73	699.80	26.76	673.04

Survey data from Michael Green and Associates.

By: KBS
Date: 11/6/2009

Table 2
Field Parameters
Davidson County C&D Landfill
9/25/2009

Well	pH (Std Units)	Conductivity (uhmos/cm)	Temperature (Celsius)	Turbidity (NTU)
CDMW-2	6.8	80	14.0	NM
CDMW-3	6.5	310	15.0	NM
CDMW-4A	7.2	600	15.5	NM
CDMW-5	6.9	150	14.5	NM

Notes: Data Collected by Don Misenheimer and Byron Hackney of RSG Engineers Inc.
NM- Not Measured

By: KBS
Date: 11/6/2009

Table 3
Detected Inorganic Parameters
Davidson County C&D Landfill
9/25/2009

Constituent	SWSL	2L	CDMW-2	CDMW-3	CDMW-4A	CDMW-5	SW-3
Inorganic							
Antimony	6	1.4	0.1 J	ND	0.5 J	0.2 J	NA
Arsenic	10	50	ND	0.5 J	1.3 J	0.2 J	NA
Barium	100	2000	**103**	**198**	**122**	98.2 J	NA
Baryllium	1	4	0.1 J	ND	**1.1**	0.1 J	NA
Cadmium	1	1.75	0.2 J	0.1 J	0.5 J	0.1 J	NA
Cobalt	10	70	2.3 J	2.3 J	7.6 J	5.2 J	NA
Copper	10	1000	4.3 J	**13**	**19**	9 J	NA
Total Chromium	10	50	0.9 J	0.7 J	**29**	5 J	NA
Iron	300	300	**6115**	**4810**	**22650**	**7735**	NA
Manganese	50	50	**134**	**157**	**1255**	**360**	NA
Lead	10	15	1.3 J	0.8 J	**16**	1 J	NA
Mercury	0.2	1.05	0.07 J	0.11 J	0.11 J	ND	NA
Nickel	50	100	2.1 J	5.2 J	20.8 J	7.9 J	NA
Selenium	10	50	0.4 J	1.7 J	1.9 J	0.4 J	NA
Silver	10	17.5	0.1 J	0.1 J	0.2 J	ND	NA
Thallium	5	0.28	0.1 J	0.1 J	0.2 J	0.1 J	NA
Vanadium	25	3.5	8.1 J	10.2 J	21.4 J	11.6 J	NA
Zinc	10	1050	**21**	**16**	**69**	**22**	NA
Organic							
Trichlorofluoromethane	1	2100	ND	0.3 J	ND	ND	NA
Acetone	100	700	10 J	7.3 J	43.7 J	3.3 J	NA
1,1 - Dichloroethane	5	70	ND	0.2 J	ND	ND	NA

SWSL	-	Solid Waste Section Quantitation Limits
GWP	-	Ground Water Protection Standards
ND	-	Not detected at or above SWSL
Shading	-	Levels above 2L standard or no 2L standard
Bold Letters	-	Constituents detected above SWSL limit
J	-	Constituents detected below SWSL limit
Note	-	Trip Blank detected 2.20J of Acetone and 4.40 of Toluene
	-	All SWSL, 2L Standards and Results are in ug/l.
	-	Lab analysis performed by Environment 1, Inc.
NA	-	No water detected to collect sample.

Appendix A

Field Data Sheets

RICHARDSON SMITH GARDNER & ASSOCIATES ENGINEERING & GEOLOGICAL SERVICES

Groundwater Monitoring Well Inspection Checklist

This checklist is provided to inform our clients about the health and maintenance of their groundwater monitoring wells. This checklist provides no information pertaining to groundwater quality, but focuses on the physical characteristics of the well and its vicinity.

Site: DAVIDSON C+D Date: 9/23/09

Well ID: MW-2 Initials: DD

Please mark the aproprate box for the following areas of concern. If you answer NO, please explain in the comment box.

1. Well Vicinity	YES	NO
A. Well is assessable and surrounding area is safe for employees.	✓	
B. Vicinity is free of potential contaminants.	✓	
C. Dead trees, etc. not in danger of falling and damaging wells.	✓	
D. Well is in the same location as on field maps.	✓	
E.		

Comments/ items addressed or to be addressed:

o.k

2. Concrete Apron and Steel Case	YES	NO
A. Concrete apron is present and in good condition.	✓	
B. Steel case is present and upright.	✓	
C. Steel case is not movable and cemented in.	✓	
D. Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	✓	
E. Well tag is present with pertinent information.	✓	
F. Well numbers are prominently displayed (Reflective address numbers, etc.).	✓	
G. No evidence of tampering is present.	✓	
H. Lock operates properly.	✓	
I.		

Comments/ items addressed or to be addressed:

o.k.

3. PVC Riser	YES	NO
A. Monitoring cap is present and provides a tight seal.	✓	
B. Riser is of appropriate height (has not been cut off too low within the steel case).	✓	
C. Riser is not loose/ easily moved.	✓	
D. Riser does not appear cracked, broken, or brittle.	✓	
E. No visual sign of external contamination entering well through riser.	✓	
F.		

Comments/ items addressed or to be addressed:

o.k.

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

Groundwater Monitoring Well Inspection Checklist

This checklist is provided to inform our clients about the health and maintenance of their groundwater monitoring wells. This checklist provides no information pertaining to groundwater quality, but focuses on the physical characteristics of the well and its vicinity.

Site: DAVIDSON C+D Date: 9/23/09

Well ID: MW-3 Initials: DP

Please mark the aproprate box for the following areas of concern. If you answer NO, please explain in the comment box.

1. Well Vicinity	YES	NO
A. Well is assessable and surrounding area is safe for employees.	✓	
B. Vicinity is free of potential contaminants.	✓	
C. Dead trees, etc. not in danger of falling and damaging wells.	✓	
D. Well is in the same location as on field maps.	✓	
E.		

Comments/ items addressed or to be addressed:

o.k.

2. Concrete Apron and Steel Case	YES	NO
A. Concrete apron is present and in good condition.	✓	
B. Steel case is present and upright.	✓	
C. Steel case is not movable and cemented in.	✓	
D. Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	✓	
E. Well tag is present with pertinent information.	✓	
F. Well numbers are prominently displayed (Reflective address numbers, etc.).	✓	
G. No evidence of tampering is present.	✓	
H. Lock operates properly.	✓	
I.		

Comments/ items addressed or to be addressed:

o.k.

3. PVC Riser	YES	NO
A. Monitoring cap is present and provides a tight seal.	✓	
B. Riser is of appropriate height (has not been cut off too low within the steel case).	✓	
C. Riser is not loose/ easily moved.	✓	
D. Riser does not appear cracked, broken, or brittle.	✓	
E. No visual sign of external contamination entering well through riser.	✓	
F.		

Comments/ items addressed or to be addressed:

o.k.

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

Groundwater Monitoring Well Inspection Checklist

This checklist is provided to inform our clients about the health and maintenance of their groundwater monitoring wells. This checklist provides no information pertaining to groundwater quality, but focuses on the physical characteristics of the well and its vicinity.

Site: DAVIDSON C+D Date: 9/23/09

Well ID: MW-4 Initials: ND

Please mark the aproprate box for the following areas of concern. If you answer NO, please explain in the comment box.

1. Well Vicinity	YES	NO
A. Well is assessable and surrounding area is safe for employees.	✓	
B. Vicinity is free of potential contaminants.	✓	
C. Dead trees, etc. not in danger of falling and damaging wells.	✓	
D. Well is in the same location as on field maps.	✓	
E.		

Comments/ items addressed or to be addressed:

o.k.

2. Concrete Apron and Steel Case	YES	NO
A. Concrete apron is present and in good condition.	✓	
B. Steel case is present and upright.	✓	
C. Steel case is not movable and cemented in.	✓	
D. Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	✓	
E. Well tag is present with pertinent information.	✓	
F. Well numbers are prominently displayed (Reflective address numbers, etc.).	✓	
G. No evidence of tampering is present.	✓	
H. Lock operates properly.	✓	
I.		

Comments/ items addressed or to be addressed:

o.k.

3. PVC Riser	YES	NO
A. Monitoring cap is present and provides a tight seal.	✓	
B. Riser is of appropriate height (has not been cut off too low within the steel case).	✓	
C. Riser is not loose/ easily moved.	✓	
D. Riser does not appear cracked, broken, or brittle.	✓	
E. No visual sign of external contamination entering well through riser.	✓	
F.		

Comments/ items addressed or to be addressed:

o.k.

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

Groundwater Monitoring Well Inspection Checklist

This checklist is provided to inform our clients about the health and maintenance of their groundwater monitoring wells. This checklist provides no information pertaining to groundwater quality, but focuses on the physical characteristics of the well and its vicinity.

Site: DAVIDSON C+D **Date:** 9/23/09

Well ID: MW-5 **Initials:** TA

Please mark the apropriate box for the following areas of concern. If you answer NO, please explain in the comment box.

1. Well Vicinity	YES	NO
A. Well is assessable and surrounding area is safe for employees.	✓	
B. Vicinity is free of potential contaminants.	✓	
C. Dead trees, etc. not in danger of falling and damaging wells.	✓	
D. Well is in the same location as on field maps.	✓	
E.		

Comments/ items addressed or to be addressed:

o.k.

2. Concrete Apron and Steel Case	YES	NO
A. Concrete apron is present and in good condition.	✓	
B. Steel case is present and upright.	✓	
C. Steel case is not movable and cemented in.	✓	
D. Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	✓	
E. Well tag is present with pertinent information.	✓	
F. Well numbers are prominently displayed (Reflective address numbers, etc.).	✓	
G. No evidence of tampering is present.	✓	
H. Lock operates properly.	✓	
I.		

Comments/ items addressed or to be addressed:

o.k.

3. PVC Riser	YES	NO
A. Monitoring cap is present and provides a tight seal.	✓	
B. Riser is of appropriate height (has not been cut off too low within the steel case).	✓	
C. Riser is not loose/ easily moved.	✓	
D. Riser does not appear cracked, broken, or brittle.	✓	
E. No visual sign of external contamination entering well through riser.	✓	
F.		

Comments/ items addressed or to be addressed:

o.k.

Appendix B

Monitoring Well Information

CDMW-2

FIELD BOREHOLE LOG

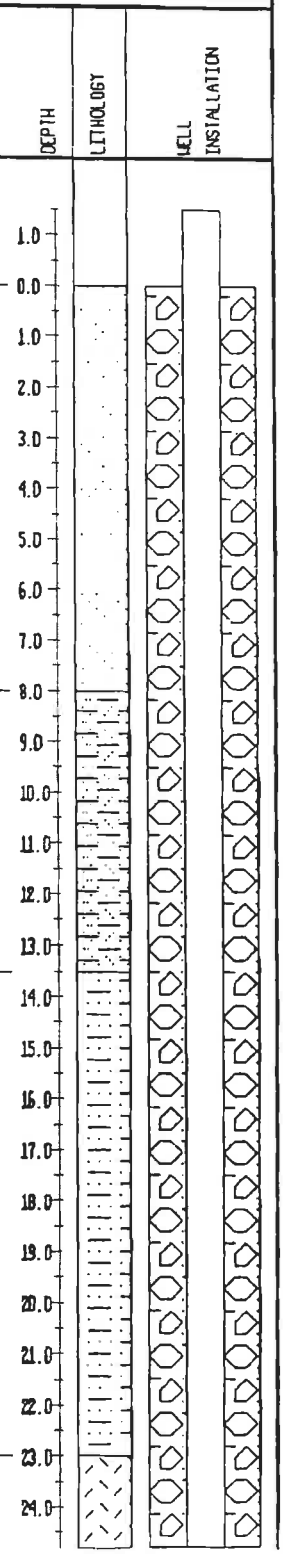
BOREHOLE NUMBER: B-6

PROJECT NUMBER: Davdco-14
PROJECT NAME: Davidson County Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-50
DRILLING METHOD: Hollow Stem/Air Rotary/Hammer
WEATHER: Sunny, 95 DEGREES
FIELD PARTY: R. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/16/98 DATE COMPLETED: 7/16/98

TOP OF CASING ELEVATION: TBD
TOTAL DEPTH: 51.0 FT
GROUND SURFACE ELEVATION: TBD
SHEET 1 OF 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(Ft)	-	-
Time	-	-
Date:	-	-

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
1.0								
0.0							AR	SAND: Tan orange fine to medium with some coarse sand mottled with iron and manganese, SP.
1.0								
2.0								
3.0	10	Ss	S1					
4.0	15							
	18							
5.0								
6.0								
7.0								
8.0		Ss	S2					SILTY SAND: Mottled fine to medium with some coarse silty sand. Tan orange matrix with gray black and white mottling, ML.
	17							
9.0	26							
	34							
10.0								
11.0								
12.0								
13.0	50/5	Ss	S3					SANDY SILT: Tan and gray sandy silt partially weathered rock. ML. Air rotary refusal at 23 feet below grade.
14.0								
15.0								
16.0								
17.0								
18.0	50/4	Ss	S4					
19.0								
20.0								
21.0								
22.0								
23.0							AH	GRANITE: Tan and gray granite. Dry.
24.0								



CDMW-2

FIELD BOREHOLE LOG

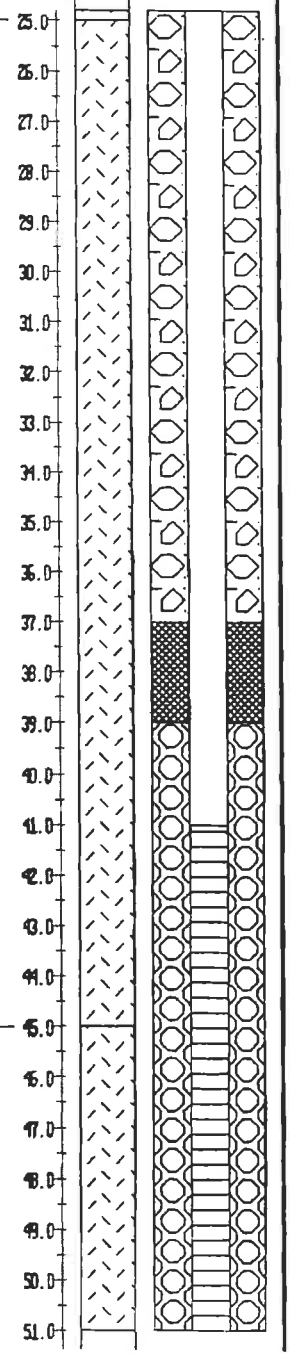
BOREHOLE NUMBER: B-6

PROJECT NUMBER: Davdco-14
PROJECT NAME: Davidson County Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-50
DRILLING METHOD: Hollow Stem/Air Rotary/Hammer
WEATHER: Sunny, 95 DEGREES
FIELD PARTY: R. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/15/98 DATE COMPLETED: 7/15/98

TOP OF CASING ELEVATION: TBD
TOTAL DEPTH: 51.0 FT
GROUND SURFACE ELEVATION: TBD
SHEET: 2 OF 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	-	-
Time	-	-
Date:	-	-

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
25.0								GRANITE: Tan and gray granite. Dry.
26.0								
27.0								
28.0		G	S5					
29.0								
30.0								
31.0								
32.0								
33.0		G	S6					
34.0								
35.0								
36.0								
37.0								
38.0		G	S7					
39.0								
40.0								
41.0								
42.0								
43.0		G	S8					
44.0								
45.0								GRANITE: Gray and tan granite. Darker than above. Water seam at 51 feet. Boring terminated.
46.0								
47.0								
48.0		G	S9					
49.0								
50.0								
51.0								



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14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577

FIELD BOREHOLE LOG

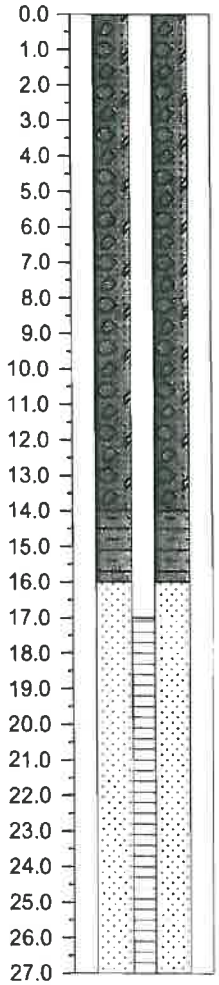
BOREHOLE NUMBER **CDMW-3**

PROJECT NAME: **Davidson County C&D Landfill**
LOACATION: **Lexington, NC**
DRILLING CO: **Engineering Tectonics, P.A.**
DRILLING METHOD: **HSA**
FIELD PARTY: **R. Barron**
GEOLOGIST: **P. May**
DATE BEGUN: **12/5/00** COMPLETED: **12/5/00**

TOTAL DEPTH: **27**
GROUND SURFACE ELEVATION: **NA**
TOP OF CASING ELEVATION:

STATIC WATER LEVEL (BLS)		
Depth (ft)	22.0	15.93
Time	16:00	08:00
Date	12/5/00	12/6/00

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
0.0				HSA	SANDY SILT: Dry, tan & rust & gray fine sandy silt, some mica & manganese.		0.0	
1.0							1.0	
2.0							2.0	
3.0							3.0	
4.0							4.0	
5.0	13,12,19	SS	16"				5.0	
6.0							6.0	
7.0							7.0	
8.0							8.0	
9.0							9.0	
10.0	13,16,24	SS	12"		CLAYEY SAND: Moist, tan & white & rust mottled medium to coarse clayey sand, large quartz fragments.		10.0	
11.0							11.0	
12.0							12.0	
13.0							13.0	
14.0							14.0	
15.0	18,32,36	SS	12"		CLAYEY SAND: Same as above but medium sand with PWR and Fe/Mn streaking throughout.		15.0	
16.0							16.0	
17.0							17.0	
18.0							18.0	
19.0							19.0	
20.0	50/6"	SS	4"				20.0	
21.0							21.0	
22.0				AR	PWR: Partially weathered diorite. Auger refusal at 22.0'. Air rotary to 27.0' through PWR to competent diorite. Boring terminated at 27'.		22.0	
23.0							23.0	
24.0							24.0	
25.0	50/0"	SS	0"				25.0	
26.0							26.0	
27.0							27.0	



G. N. Richardson & Associates, Inc.
14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER **CDMW-4a**

PROJECT NAME: **Davidson County C&D Landfill**
LOACATION: **Lexington, NC**
DRILLING CO: **Engineering Tectonics, P.A.**
DRILLING METHOD: **AR/AH**
FIELD PARTY: **R. Barron**
GEOLOGIST: **J. Smyth**
DATE BEGUN: **1/24/06** COMPLETED: **1/24/06**

TOTAL DEPTH: **78**
GROUND SURFACE ELEVATION: **NA**
TOP OF CASING ELEVATION:

STATIC WATER LEVEL (BLS)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
0.0				AR	SAND: Highly weatherd partially weatherd rock, granitic sand rock, dry. Auger refusal at 17 feet		0.0	
1.0							1.0	
2.0							2.0	
3.0							3.0	
4.0							4.0	
5.0							5.0	
6.0		Grab					6.0	
7.0							7.0	
8.0							8.0	
9.0							9.0	
10.0							10.0	
11.0		Grab					11.0	
12.0							12.0	
13.0							13.0	
14.0							14.0	
15.0							15.0	
16.0		Grab					16.0	
17.0				AH	GRANITE: Weathered granite, dry.		17.0	
18.0							18.0	
19.0							19.0	
20.0							20.0	
21.0							21.0	
22.0							22.0	
23.0		Grab					23.0	
24.0							24.0	
25.0							25.0	
26.0							26.0	
27.0							27.0	
28.0							28.0	
29.0		Grab					29.0	
30.0							30.0	
31.0		Grab			SANDY SILT: Soil seam of sandy silt, dry.		31.0	
32.0							32.0	
33.0							33.0	
34.0		Grab			GRANITE: Weathered granite, dry.		34.0	
35.0							35.0	
36.0							36.0	
37.0		Grab					37.0	
38.0							38.0	
39.0							39.0	

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FIELD BOREHOLE LOG

BOREHOLE NUMBER **CDMW-4a**

PROJECT NAME: **Davidson County C&D Landfill**
LOACATION: **Lexington, NC**
DRILLING CO: **Engineering Tectonics, P.A.**
DRILLING METHOD: **AR/AH**
FIELD PARTY: **R. Barron**
GEOLOGIST: **J. Smyth**
DATE BEGUN: **1/24/06** COMPLETED: **1/24/06**

TOTAL DEPTH: **78**
GROUND SURFACE ELEVATION: **NA**
TOP OF CASING ELEVATION:

STATIC WATER LEVEL (BLS)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
39.0							39.0	
40.0							40.0	
41.0							41.0	
42.0							42.0	
43.0		Grab					43.0	
44.0							44.0	
45.0		Grab			DIORITE: Weatherd diorite, dry.		45.0	
46.0							46.0	
47.0							47.0	
48.0		Grab					48.0	
49.0							49.0	
50.0							50.0	
51.0							51.0	
52.0							52.0	
53.0		Grab					53.0	
54.0							54.0	
55.0							55.0	
56.0							56.0	
57.0		Grab					57.0	
58.0							58.0	
59.0							59.0	
60.0							60.0	
61.0							61.0	
62.0							62.0	
63.0		Grab			GRANITE: Weathered, very competent granite, very dry.		63.0	
64.0							64.0	
65.0							65.0	
66.0							66.0	
67.0							67.0	
68.0		Grab			DIORITE: Weathered, very hard diorite, dry.		68.0	
69.0							69.0	
70.0							70.0	
71.0							71.0	
72.0							72.0	
73.0		Grab					73.0	
74.0							74.0	
75.0							75.0	
76.0							76.0	
77.0							77.0	
78.0							78.0	

G. N. Richardson & Associates, Inc.
14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER **CDMW-5**

PROJECT NAME: **Davidson County C&D Landfill**
LOACATION: **Lexington, NC**
DRILLING CO: **Engineering Tectonics, P.A.**
DRILLING METHOD: **AR/AH**
FIELD PARTY: **R. Barron**
GEOLOGIST: **J. Smyth**
DATE BEGUN: **1/30/06** COMPLETED: **1/30/06**

TOTAL DEPTH: **47**
GROUND SURFACE ELEVATION: **NA**
TOP OF CASING ELEVATION:

STATIC WATER LEVEL (BLS)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
0.0				AR	SANDY CLAY: Clayey F-C sand, well weatherd granite saprolite, dry.		0.0	
1.0							1.0	
2.0							2.0	
3.0							3.0	
4.0							4.0	
5.0	6,15,28	SS	12"				5.0	
6.0							6.0	
7.0							7.0	
8.0							8.0	
9.0							9.0	
10.0	35,50/5"	SS	8"				10.0	
11.0		Grab		AH	GRANITE: Weathered granite, dry.		11.0	
12.0							12.0	
13.0							13.0	
14.0							14.0	
15.0							15.0	
16.0		Grab					16.0	
17.0							17.0	
18.0							18.0	
19.0							19.0	
20.0							20.0	
21.0		Grab					21.0	
22.0							22.0	
23.0							23.0	
24.0							24.0	
25.0							25.0	
26.0		Grab					26.0	
27.0							27.0	
28.0							28.0	
29.0							29.0	
30.0							30.0	

G. N. Richardson & Associates, Inc.
14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER **CDMW-5**

PROJECT NAME: **Davidson County C&D Landfill**
LOACATION: **Lexington, NC**
DRILLING CO: **Engineering Tectonics, P.A.**
DRILLING METHOD: **AR/AH**
FIELD PARTY: **R. Barron**
GEOLOGIST: **J. Smyth**
DATE BEGUN: **1/30/06** COMPLETED: **1/30/06**

TOTAL DEPTH: **47**
GROUND SURFACE ELEVATION: **NA**
TOP OF CASING ELEVATION:

STATIC WATER LEVEL (BLS)		
Depth (ft)		
Time		
Date		

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
30.0							30.0	
31.0		Grab			GRANITE: Weathered granite to 33' where an approx. 1' moist seam was located (finer cuttings). Harder drilling begins at 38' where rock chips no longer have pink hue. Larger rock cuttings, with moisture, appear at 45'. BT at 47'		31.0	
32.0							32.0	
33.0							33.0	
34.0							34.0	
35.0							35.0	
36.0		Grab					36.0	
37.0							37.0	
38.0							38.0	
39.0							39.0	
40.0							40.0	
41.0		Grab					41.0	
42.0							42.0	
43.0							43.0	
44.0							44.0	
45.0							45.0	
46.0		Grab					46.0	
47.0							47.0	

Appendix C

Laboratory Analytical Report

Environment 1, Incorporated

REC'D OCT 28 2009

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#: 6050

DAVIDSON COUNTY LANDFILL (C&D)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N.BOYLAN AVENUE
RALEIGH ,NC 27603

DATE COLLECTED: 09/25/09
DATE REPORTED : 10/27/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	CDMW-2	CDMW-3	CDMW-4A	CDMW-5	Trip Blank	Analysis Date	Analyst	Method Code
Total Alkalinity, mg/l	1.0	1.0	30	176	251	100		09/29/09	TRB	SM2320B
Chloride, mg/l	5.0	5.0	18	83	44	22		10/05/09	MJN	SM4500-CLB
Total Dissolved Residue, mg/l	1.0	1.0	188	435	395	228		09/29/09	TRB	SM2540C
Sulfate, mg/l	5.0	250.0	33.2 J	113.2 J	34.3 J	22.1 J		10/07/09	TRB	SM426C
Antimony, ug/l	0.06	6.0	0.1 J	--- U	0.5 J	0.2 J		10/08/09	LFJ	EPA200.8
Arsenic, ug/l	0.17	10.0	--- U	0.5 J	1.3 J	0.2 J		10/08/09	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	103	198	122	98.2 J		10/08/09	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	0.1 J	--- U	1.1	0.1 J		10/08/09	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.2 J	0.1 J	0.5 J	0.1 J		10/08/09	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	2.3 J	2.3 J	7.6 J	5.2 J		10/08/09	LFJ	EPA200.8
Copper, ug/l	0.04	10.0	4.3 J	13	19	9 J		10/08/09	LFJ	EPA200.8
Total Chromium, ug/l	0.10	10.0	0.9 J	0.7 J	29	5 J		10/08/09	LFJ	EPA200.8
Iron, ug/l	14.0	300.0	6115	4810	22650	7735		10/05/09	ADD	SM3111B
Manganese, ug/l	0.50	50.0	134	157	1255	360		10/02/09	LFJ	EPA200.7
Lead, ug/l	0.04	10.0	1.3 J	0.8 J	16	1 J		10/08/09	LFJ	EPA200.8
Mercury, ug/l	0.13	0.20	0.07 J	0.11 J	0.11 J			10/08/09	LFJ	EPA200.8
Mercury, ug/l	0.13	0.20				--- U		10/23/09	ADD	EPA245.1
Nickel, ug/l	0.04	50.0	2.1 J	5.2 J	20.8 J	7.9 J		10/08/09	LFJ	EPA200.8
Selenium, ug/l	0.12	10.0	0.4 J	1.7 J	1.9 J	0.4 J		10/08/09	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	0.1 J	0.1 J	0.2 J	--- U		10/08/09	LFJ	EPA200.8
Thallium, ug/l	0.03	5.0	0.1 J	0.1 J	0.2 J	0.1 J		10/08/09	LFJ	EPA200.8
Vanadium, ug/l	0.28	25.0	8.1 J	10.2 J	21.4 J	11.6 J		10/08/09	LFJ	EPA200.8
Zinc, ug/l	0.14	10.0	21	16	69	22		10/08/09	LFJ	EPA200.8

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

CLIENT: DAVIDSON COUNTY LANDFILL (C&D)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N.BOYLAN AVENUE
RALEIGH, NC 27603

CLIENT ID: 6050

ANALYST: MAO
DATE COLLECTED: 09/25/09
DATE ANALYZED: 10/08/09
DATE REPORTED: 10/27/09

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	CDMW-2	CDMW-3	CDMW-4A	CDMW-5	Trip Blank
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	0.30 J	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	10.00 J	7.30 J	43.70 J	3.30 J	--- 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	0.20 J	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- 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	--- 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	0.50 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	--- 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: 6050 **Week:** 40

DAVIDSON COUNTY LANDFILL (C&D)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
14 N.BOYLAN AVENUE
RALEIGH NC 27603

(919) 828-0577

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

CHLORINE NEUTRALIZED AT COLLECTION																		
pH CHECK (LAB)									L2	L2	L2	L2						
CONTAINER TYPE, P/G									P	P	P	P	P	G	G	G		
CHEMICAL PRESERVATION									A	A	A	A	A	E	E	E		
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Alkalinity	Chloride	TDS	Sulfate	Metals	EPA 8260B	8260 Dup. 1	8260 Dup. 2					
CDMW-2	9/25/09	9:12a			8	▒	▒	▒	▒	▒	▒	▒	▒					
CDMW-3	9/25/09	9:25a			7	▒	▒	▒	▒	▒	▒	▒						
CDMW-4A	9/25/09	9:33a			7	▒	▒	▒	▒	▒	▒	▒						
CDMW-5	9/25/09	9:51a			7	▒	▒	▒	▒	▒	▒	▒						
Trip Blank					2						▒	▒						

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
- [x] SOLID WASTE SECTION

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

SAMPLES COLLECTED BY: (Please Print)
Don Misenheimer

SAMPLES RECEIVED IN LAB AT 3.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Joan Smyth	9/28/09 3:20	[signature]	9/29 10:53
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.

№ 191984

FORM #5