ERM NC, PC

8000 Corporate Center Drive
Suite 200
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (fax)

December 17, 2010

North Carolina Department of Environment and Natural Resources
Division of Waste Management
1646 Mail Service Center
Raleigh, North Carolina 27699-1646
Attention: Ms. Jaclynne Drummond

Via Overnight Courier

Subject: Ground Water and Surface Water Monitoring
Semi-Annual Summary Report – October 2010
R.J. Reynolds Ash Landfill – Permit #34-05
Edwards Road
Rural Hall, Forsyth County, North Carolina

Dear Ms. Drummond:

On behalf of R.J. Reynolds Tobacco Company, ERM NC, PC (ERM) is submitting the summary report for the October 2010 ground water and surface water monitoring event associated with the subject property. A CD with the electronic laboratory data files is enclosed at the back of the summary report. Please contact Ms. Yong Yi of R.J. Reynolds Tobacco Company at 336-741-1491 or myself if you have any questions or comments.

Sincerely,

Alan Martin, P.G.
Project Manager

Attachments:
Environmental Monitoring Reporting Form
Ground Water and Surface Water Monitoring Semi-Annual Summary Report (including CD)

cc: Ms. Yong Yi - R.J. Reynolds Tobacco Company

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):

ERM NC, PC (consultant)

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

Name: Alan Martin Phone: 704-541-8345

E-mail: alan.martin@erm.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
R.J. Reynolds Industrial Landfill	Edwards Road (S.R. 1903) Rural Hall, Forsyth County	34-05	0.0503	October 11, 2010

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.

Alan Martin, P.G. Project Manager 704-541-8345

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

Signature Date December 17 2010

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1846 GEOLOGIST ALAN D. MARTIN

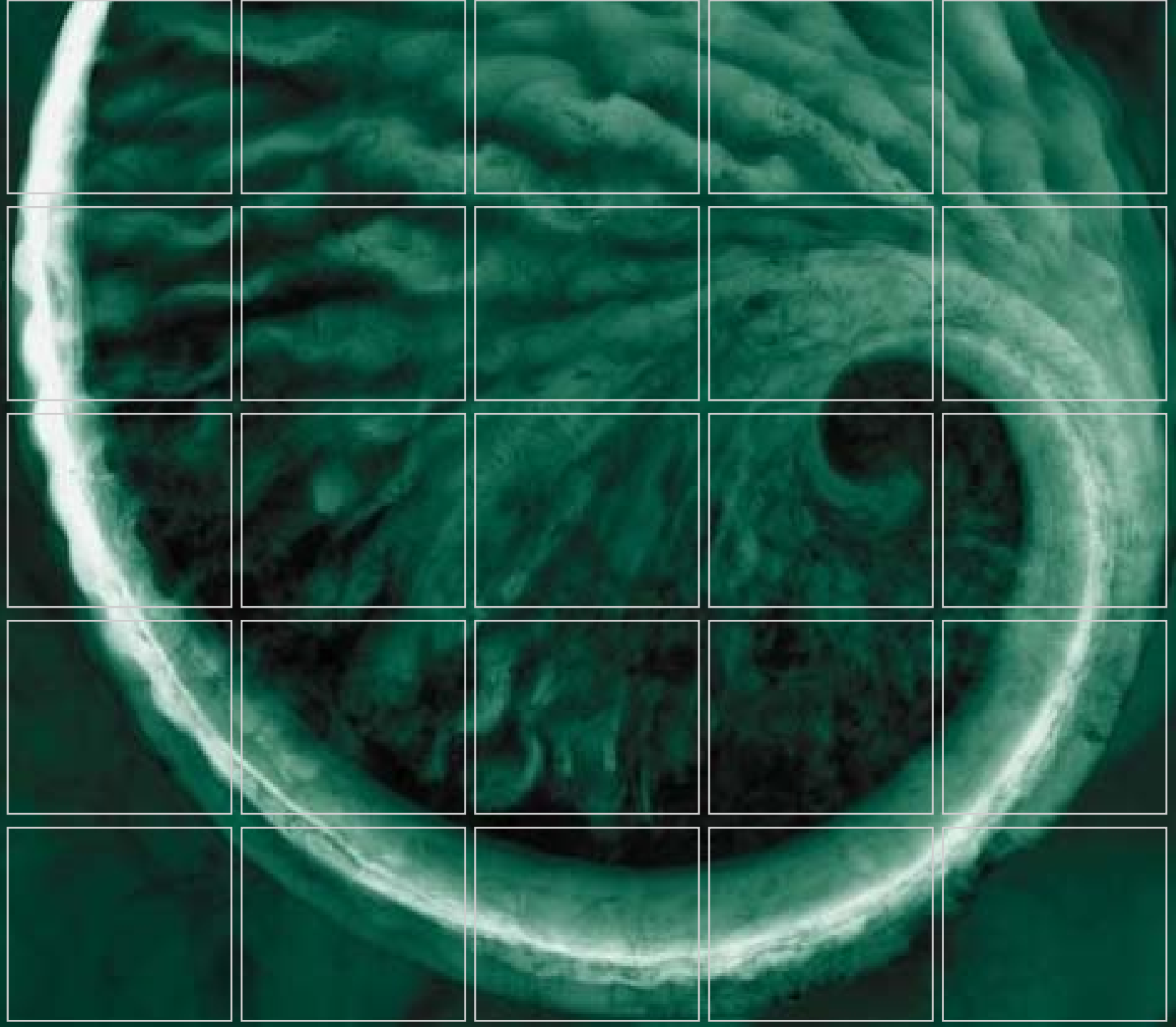
ERM NC, PC - 8000 Corporate Center Drive, #200, Charlotte, NC 28226

Facility Representative Address

NC Professional Geologic Corporation # C-302

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

Revised 6/2009



R.J. Reynolds Tobacco Company

Ground Water and Surface Water Monitoring Semi-Annual Summary Report - October 2010

Ash Landfill
Edwards Road,
Rural Hall, Forsyth County,
North Carolina

Delivering sustainable solutions in a more competitive world

ERM

R.J. Reynolds Tobacco Company

Ground Water and Surface Water Monitoring Semi-Annual Summary Report - October 2010

Ash Landfill
Edwards Road,
Rural Hall, Forsyth County,
North Carolina

December 17, 2010

Project No. 0122544

Alan Martin, P.G.
Project Manager

Thomas M. Wilson, P.G.
Principal-in-Charge

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TABLE OF CONTENTS

1.0	*INTRODUCTION*	*1*
2.0	*HISTORICAL GROUND WATER AND SURFACE WATER QUALITY*	*1*
3.0	*SUMMARY OF MONITORING PROGRAM*	*1*
4.0	*DESCRIPTION OF WATER QUALITY CONDITIONS*	*2*
	4.1 GROUND WATER	*2*
	4.2 SURFACE WATER	*3*
5.0	*PRELIMINARY ANALYSIS*	*3*

LIST OF FIGURES

1 Site Location Plan
2 Site Plan
3 Ground Water Sampling Results - October 2010
4 Surface Water Sampling Results – October 2010

LIST OF TABLES

1 Monitor Well Construction Details
2 Ground Water Elevations
3 Ground Water and Surface Water Sampling Event Summary Data

LIST OF APPENDICES

A HISTORICAL GROUND WATER AND SURFACE WATER QUALITY ANAYTICAL DATA
B LABORATORY DATA SHEETS

1.0 INTRODUCTION

In accordance with the April 27, 2004 Amended Monitoring Plan for Closure and the December 23, 2003 Closure Verification and Monitoring/Maintenance Plans (hereafter collectively referred to as "Post-Closure Monitoring Plan"), this report presents the results of the October 2010 ground water and surface water sampling event conducted at the closed Edwards Road landfill previously operated by R.J. Reynolds Tobacco Company. The closed landfill is located northeast of the jurisdictional boundaries of Rural Hall, Forsyth County, North Carolina and the location of the Site along with topographic map coverage of the vicinity are shown on Figure 1.

The current monitoring data, as well as previously submitted monitoring data, reveals the detection of certain inorganic compounds in excess of the North Carolina Ground Water Standards (15A NCAC 2L) and Surface Water Standards (15A NCAC 2B).

2.0 HISTORICAL GROUND WATER AND SURFACE WATER QUALITY

Ground water and surface water quality monitoring has been conducted in the vicinity of the Edwards Road Landfill since 1989 in accordance with the conditions of Permit Number 34-05 and subsequent to the closure of the landfill, in accordance with the approved Post Closure Monitoring Plan. Figure 2 depicts the locations of the ground water monitor wells and surface water sampling locations and Table 1 presents a summary of available well construction details. Historical laboratory analytical results for available ground water and surface water samples are summarized in Appendix A.

3.0 SUMMARY OF MONITORING PROGRAM

Routine ground water and surface water monitoring activities were conducted on October 11, 2010 and are summarized in the following table:

Sampling and Analyses Plan

Sample Location I.D.	Metals [1] (EPA 6010 B)	Nitrate, Sulfate (EPA 9056)	Total Dissolved Solids (SM 2540C)	Total Organic Carbon (SM 5310B)	Field Parameters [2]
Ground Water:					
W-1	✓	✓	✓	✓	✓
W-2	✓	✓	✓	✓	✓
W-3	✓	✓	✓	✓	✓
W-3B	✓	✓	✓	✓	✓
W-6	✓	✓	✓	✓	✓
Subtotal	5	5	5	5	5
Surface Water:					
SS-01	✓	✓	✓	✓	✓
SS-02	✓	✓	✓	✓	✓
Subtotal	2	2	2	2	2
TOTAL	**7**	**7**	**7**	**7**	**7**

1 *Aluminum, arsenic, barium, cadmium, chromium (total), copper, iron, lead, manganese, mercury, selenium, silver and zinc.*
2 *Field parameters include temperature, pH, conductivity, turbidity, dissolved oxygen, and oxidation-reduction potential (Eh).*

Depth-to-water measurements for available monitor wells from the October 2010 sampling event are presented in Table 2. Ground water and surface water analytical data from the October 2010 sampling event are presented in Table 3. Historical analytical data for both ground water and surface water are presented in Appendix A. Laboratory data sheets for the October 2010 sampling event are presented in Appendix B. Ground water and surface water sample analytical results from the October 2010 sampling event are presented on Figures 3 and 4, respectively.

4.0 DESCRIPTION OF WATER QUALITY CONDITIONS

Shallow ground water beneath the Site migrates either along the top of bedrock or along the permeable zones within the shallow fractured bedrock zone and discharges into nearby creeks. The regional ground water flow regime within the lower portion of the deep bedrock aquifer is north-eastward toward the nearest regional drainage feature, Town Fork Creek. The depth to ground water in the top-of-rock aquifer zone ranges from approximately 0 feet at the creeks to 15.8 feet in shallow monitor wells. The depth to water in the bedrock aquifer ranges from artesian conditions to 98.9 feet. The depth to water increased by approximately 0.6 feet in monitoring well W-3 to more than 1.6 feet in monitoring well W-2 when compared to the April 2010 measurements. The increased depth to water is attributed to decreased rainfall and associated decreased infiltration to the water table during the summer months since the April 2010 gauging data were recorded.

4.1 GROUND WATER

Ground water within the Site presently contains concentrations of four metals plus sulfate and total dissolved solid above the applicable North Carolina ground water standards. Sulfate, the primary constituent related to the landfill, was detected in three ground water samples (W-1, W-2, and W-3B) in excess of the North Carolina ground water standard. Manganese was detected in four of the five ground water samples in excess of the applicable North Carolina ground water standards. Iron was detected in three of the five ground water samples in excess of the North Carolina ground water standards. Selenium was detected in ground water samples from W-1 and W-3 in excess of the North Carolina ground water standard. Chromium was also detected above the North Carolina ground water standards in the sample from background monitoring well W-6. Elevated concentrations of manganese, iron, sulfate and total dissolved solids were detected in the bedrock aquifer at a depth of 200 feet below the ground surface at monitoring well W-3B.

Sulfate, manganese, iron and total dissolved solids concentrations in ground water samples from the Site have generally remained stable compared to historical results. Concentrations of iron in the W-2 sample increased compared to the previous sampling results while the manganese, sulfate and total dissolved solids concentrations decreased. Concentrations of all analytes in the W-3 sample including iron, manganese and sulfates generally decreased when compared to the April 2010 sample results.

Concentrations of iron, manganese, sulfates and total dissolved solids generally remained unchanged compared to the previous sampling results.

4.2 SURFACE WATER

Concentrations of manganese, selenium and total dissolved solids exceed the respective North Carolina surface water standards in surface water sample SS-02 from Leak Creek, located immediately downstream of the Edwards Road Landfill. All other analytes were below the applicable surface water standards in the SS-02 sample. All analytes, including sulfate, manganese and iron, were below the applicable surface water standards in the upstream surface water sample, SS-01. The surface water analytical results are within the normal range of fluctuation according to the historical data.

5.0 PRELIMINARY ANALYSIS

The October 2010 monitoring results demonstrate:

- Sulfate, dissolved solids, and four metals exceed the North Carolina ground water standards. Concentrations of all detected analytes in ground water were within the normal range of historical fluctuations.

- Sulfate, manganese, iron and total dissolved concentrations in ground water samples from the Site have generally remained stable compared to historical results. Based on the monitoring data and the site conceptual model, most of the affected ground water from the site is migrating toward and is intercepted by Leak Creek and the unnamed northwest tributary. Additional assessment of the bedrock aquifer water quality is planned.

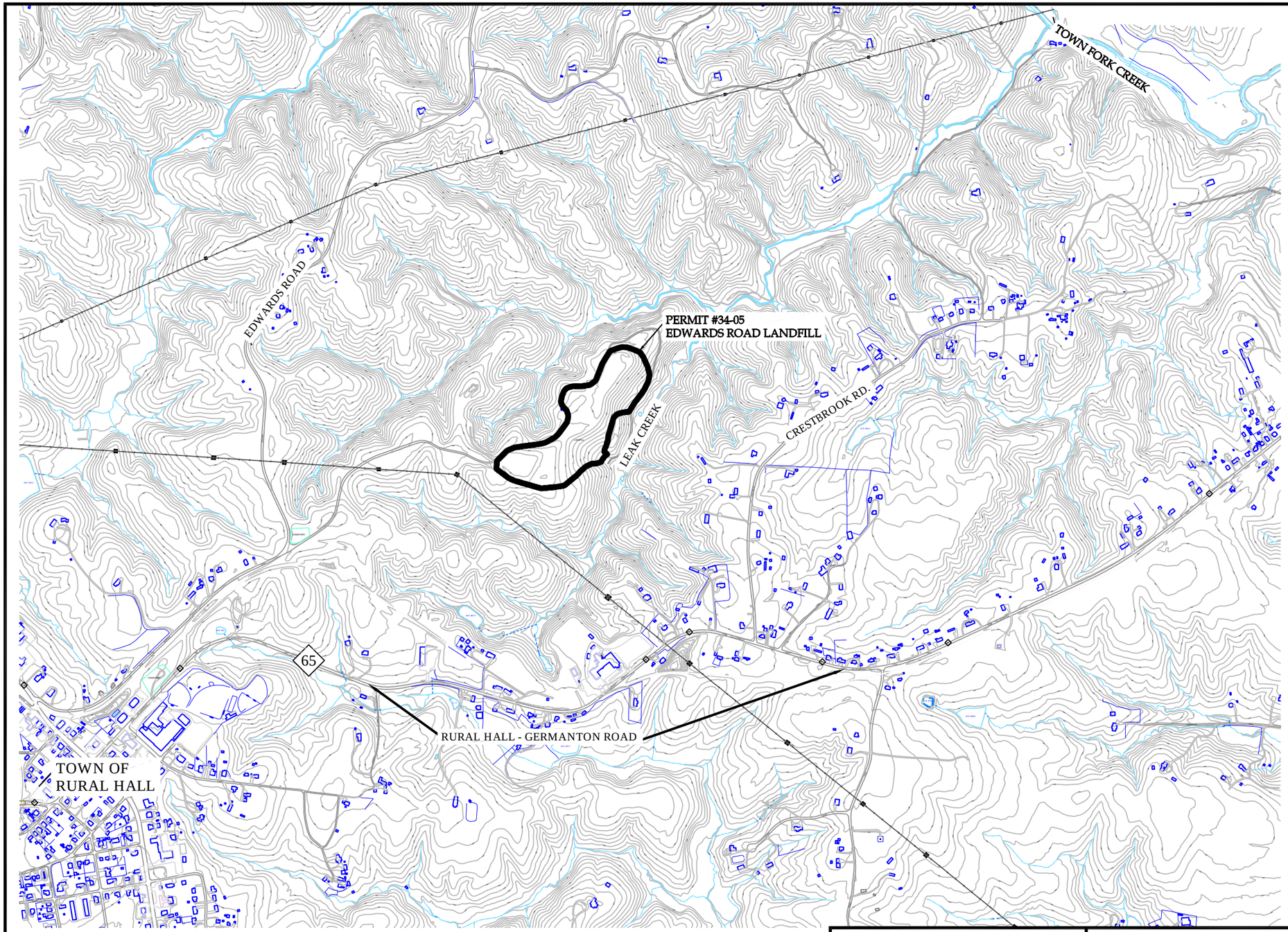
- Surface water samples did not indicate the presence of sulfate or iron in concentrations exceeding the applicable North Carolina surface water standards. Elevated concentrations of manganese, selenium, and total dissolved were detected in the surface water sample SS-02 above the North Carolina surface water standards. Concentrations of all detected analytes in surface water were within the normal range of historical fluctuations.

- Sulfate concentrations above the North Carolina surface water standard have been detected in the SS-02 surface water samples in seven of 19 semi-annual monitoring events since 2001. These data indicate that sulfate-affected ground water from the landfill is currently migrating to Leak Creek and resulting in intermittent surface water quality impacts. Additional assessment of surface water quality downstream of the Site is planned.

The schedule for routine monitoring activities for 2011 is summarized below.

Activity	Target Completion Date
Conduct Semi-Annual Water Quality Monitoring Event	April 2011
Submit Water Quality Monitoring Summary Report to NCDENR	June 2011
Conduct Semi-Annual Water Quality Monitoring Event	October 2011
Submit Water Quality Monitoring Summary Report to NCDENR	December 2011

FIGURES



NOTES:

TOPOGRAPHIC INFORMATION SHOWN IS A COMPILATION OF NC FLOODPLAIN MAPPING PROGRAM 2008 AND FORSYTH COUNTY INFORMATION 2005.

CONTOUR INTERVAL IS 10-FT.

LIMITS OF LANDFILL ARE APPROXIMATE BASED ON AVAILABLE HISTORIC DATA.

PARCEL BOUNDARY INFORMATION TAKEN FROM FORSYTH COUNTY GIS SYSTEM.

N

SCALE IN FEET

0 250 500 1000

ERM NC, PC

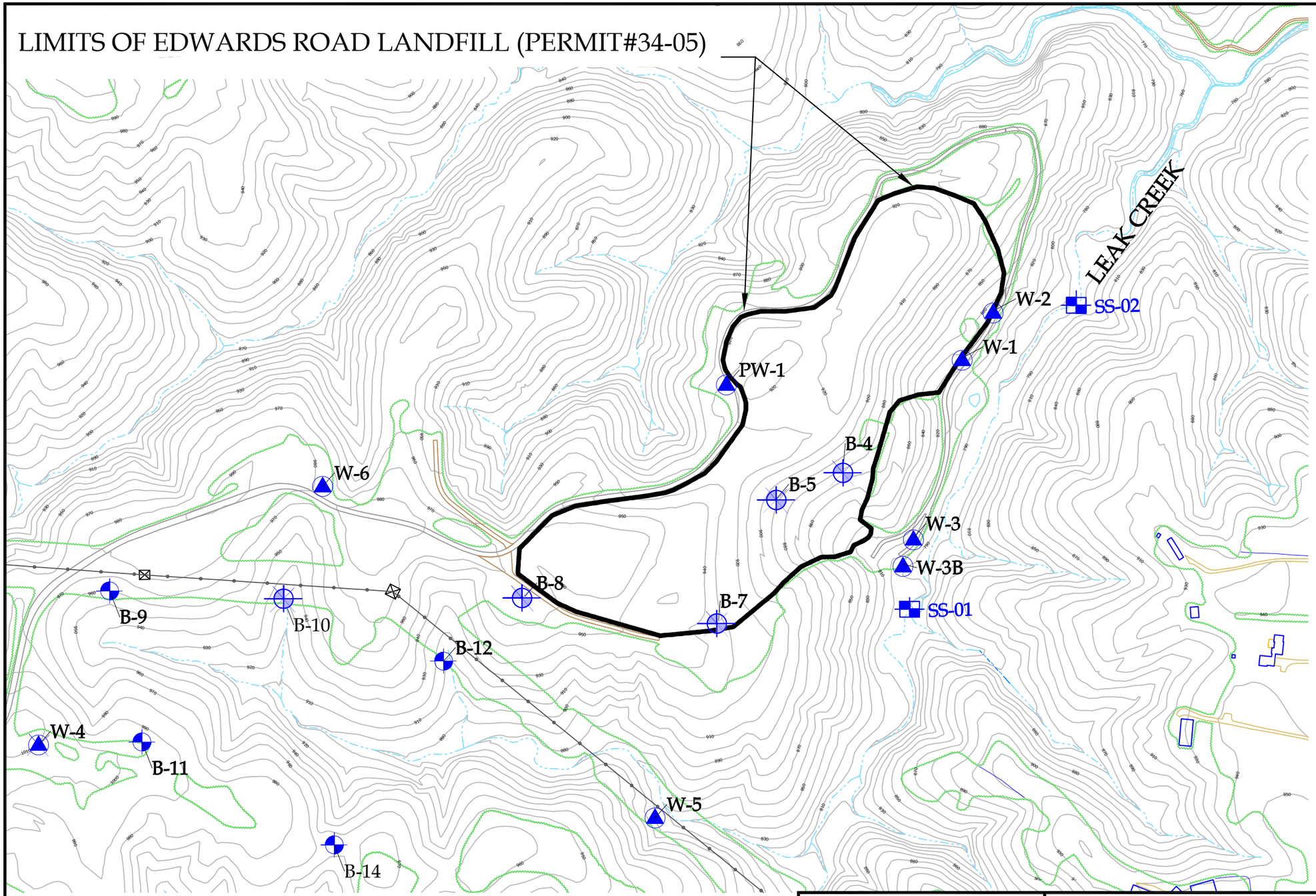
ERM

SITE LOCATION PLAN
ASH LANDFILL PERMIT #34-05
R.J. REYNOLDS TOBACCO COMPANY
RURAL HALL, NORTH CAROLINA

FIGURE

1

LIMITS OF EDWARDS ROAD LANDFILL (PERMIT#34-05)



LEGEND

- WELL LOCATION
- SOIL TEST BORING LOCATION
- WELL LOCATION PREVIOUSLY ABANDONED
- SOIL TEST BORING LOCATION WITH NO EXISTING PIEZOMETER
- EXISTING SURFACE WATER SAMPLING LOCATION

NOTES:

WELL PW-1 PREVIOUSLY SERVED AS A BACKGROUND MONITORING WELL.

WELL W-6 IS CURRENT BACKGROUND MONITORING WELL.

WELLS W-1, W-2, W-3 & W-3B SERVE AS COMPLIANCE MONITORING WELLS.

SOIL TEST BORINGS WERE PERFORMED IN 1987 BY OTHERS.

TOPOGRAPHIC INFORMATION IS A COMPILATION OF NC FLOODPLAIN MAPPING PROGRAM, 2008 AND FORSYTH COUNTY TOPOGRAPHY, 2005.

LANDFILL LIMITS ARE APPROXIMATE BASED ON AVAILABLE HISTORIC DATA.

CONTOUR INTERVAL IS 10-FT.

LOCATIONS OF WELLS AND SOIL TEST BORINGS ARE APPROXIMATE BASED ON HISTORICAL AVAILABLE DATA.

WELL W-5 AND SOIL TEST BORINGS B-9, B-10, B-11 & B-12 WITH PIEZOMETERS WERE INSTALLED BY OTHERS FOR FORMER PROPOSED PHASE III.

N

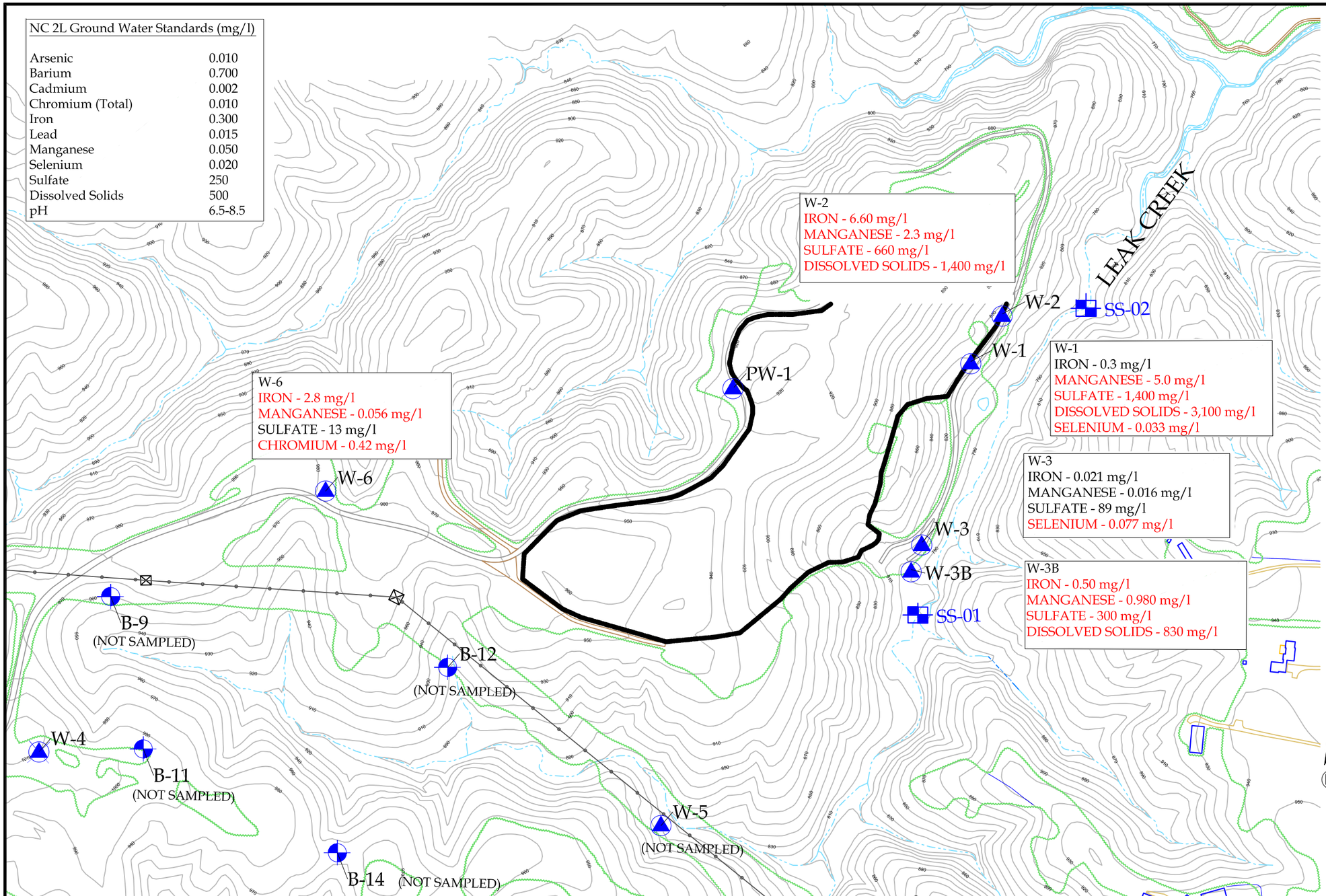
SCALE IN FEET
0 75 150 300

ERM NC, PC

SITE PLAN
ASH LANDFILL PERMIT #34-05
R.J. REYNOLDS TOBACCO COMPANY
RURAL HALL, NORTH CAROLINA

FIGURE
2

NC 2L Ground Water Standards (mg/l)	
Arsenic	0.010
Barium	0.700
Cadmium	0.002
Chromium (Total)	0.010
Iron	0.300
Lead	0.015
Manganese	0.050
Selenium	0.020
Sulfate	250
Dissolved Solids	500
pH	6.5-8.5



LEGEND

- WELL LOCATION
- SOIL TEST BORING/ TEMPORARY MONITORING WELL
- WELL LOCATION PREVIOUSLY ABANDONED
- EXISTING SURFACE WATER SAMPLING LOCATION

NOTES:

CONCENTRATIONS SHOWN ARE IN MILLIGRAMS PER LITER (mg/l) UNLESS OTHERWISE INDICATED.

CONCENTRATIONS EXCEEDING THE APPLICABLE NC 2L GROUNDWATER STANDARD ARE SHOWN IN RED.

WELL PW-1 & W-4 PREVIOUSLY SERVED AS A BACKGROUND MONITORING WELL.

WELL W-6 IS CURRENT BACKGROUND MONITORING WELL.

WELLS W-1, W-2, W-3, W-3B & W-6 SERVE AS COMPLIANCE MONITORING WELLS.

TOPOGRAPHIC INFORMATION IS A COMPILATION OF NC FLOODPLAIN MAPPING PROGRAM, 2008 AND FORSYTH COUNTY TOPOGRAPHY, 2005.

LANDFILL LIMITS ARE APPROXIMATE BASED ON AVAILABLE HISTORIC DATA.

CONTOUR INTERVAL IS 10-FT.

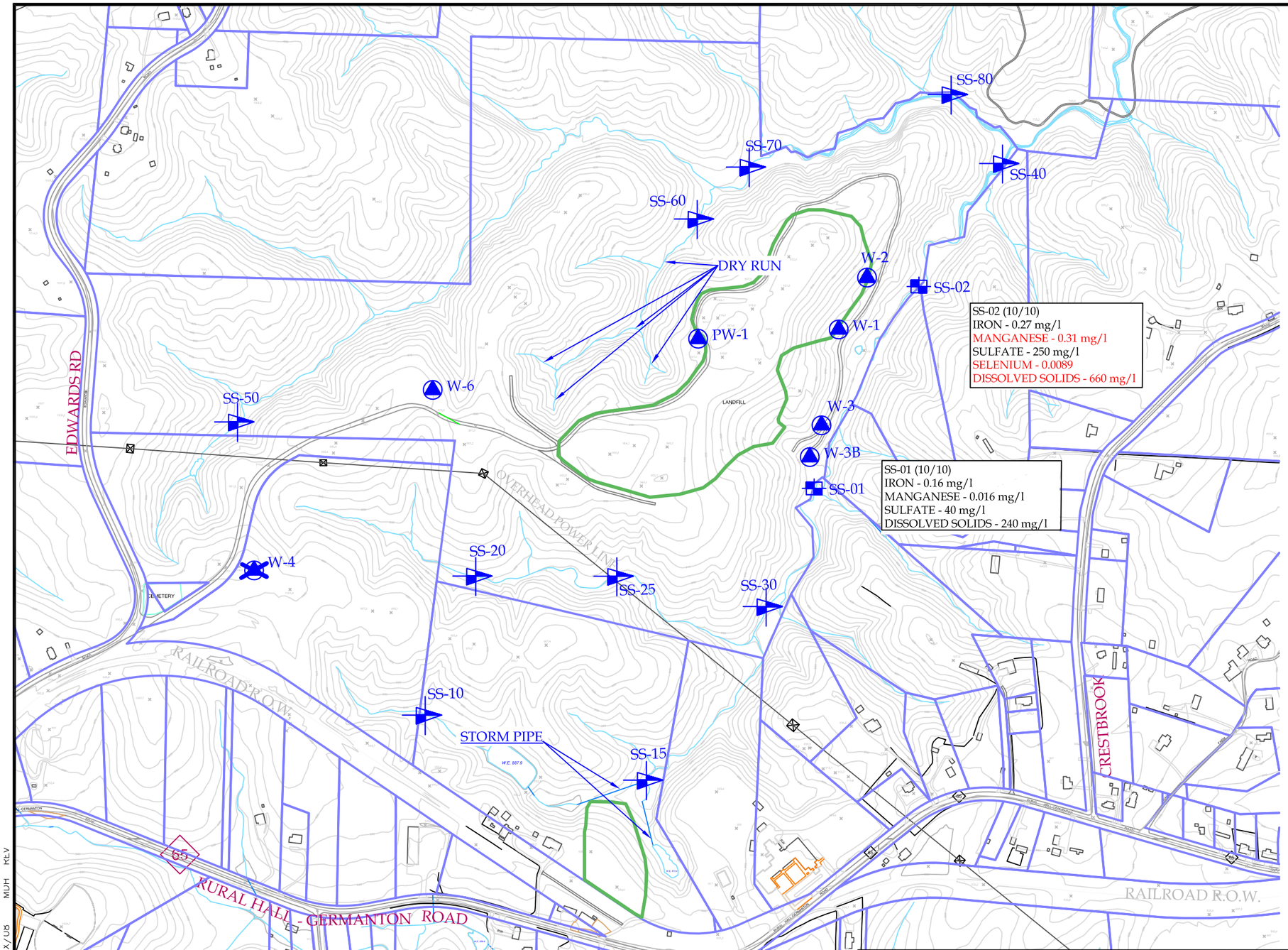
WELL W-5 AND SOIL TEST BORINGS B-9, B-11, B-12 & B-14 WITH PIEZOMETERS WERE INSTALLED BY OTHERS FOR FORMER PROPOSED PHASE III.

NOTE: ONLY IRON, MANGANESE AND SULFATE RESULTS ARE SHOWN UNLESS ANOTHER CONSTITUENT EXCEEDS THE NC 2L GROUNDWATER STANDARD

ERM NC, PC

GROUNDWATER SAMPLING RESULTS - OCTOBER 2010
ASH LANDFILL PERMIT #34-05
R.J. REYNOLDS TOBACCO COMPANY
RURAL HALL, NORTH CAROLINA

FIGURE 3



LEGEND

W-6	EXISTING MONITORING WELL
W-4	ABANDONED MONITORING WELL
SS-01	EXISTING SURFACE WATER MONITORING LOCATION - APRIL 2010
SS-40	SURFACE WATER MONITORING LOCATION - AUGUST 2009
	EXISTING CONTOUR 10-FT INTERVAL

NC 2B Surface Water Standards

Aluminum	0.087
Barium	1
Cadmium	0.002
Chromium (Total)	0.05
Iron	1
Lead	0.025
Manganese	0.2
Selenium	0.005
Sulfate	250
Dissolved Solids	500
pH	6.0 - 9.0

NOTES: CONCENTRATIONS SHOWN ARE MILLIGRAMS PER LITER (mg/l) UNLESS OTHERWISE INDICATED.

CONCENTRATIONS EXCEEDING THE APPLICABLE NC2B SURFACE WATER STANDARD ARE SHOWN IN RED.

N

SCALE IN FEET
0 125 250 500

ERM NC, PC

SURFACE WATER SAMPLING RESULTS - OCTOBER 2010
ASH LANDFILL PERMIT #34-05
R. J. REYNOLDS TOBACCO COMPANY
RURAL HALL, NC

FIGURE
4

SITE.DWG XX/XX/08 MDH KEV

TABLES

TABLE 1
MONITOR WELL CONSTRUCTION DETAILS AND GROUND WATER ELEVATIONS
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

MONITOR WELL CONSTRUCTION DETAILS

Monitor Well	Installation Date	Northing	Easting	TOC Elevation (ft MSL)	Boring Depth (ft BGL)	Outer Casing Depth (ft BGL)	Screened Interval (ft BGL)	Geologic Zone Screened	Comments
PW-1	5/26/87	NE	NE	NE	405	21.5	21.5-405	Bedrock	Former supply well, pump removed (8/09): 6 inch dia. galv. casing; Construction details per Clayton Well Drilling log and video inspection by ERM (8/09 & 4/10); Open rock to 405 ft, TOC 0.1ft ags, Open frac zone 102-103 ft (video) producing 8-10 gpm (Clayton); Total well yield 25 gpm with no other obvious water-bearing zones below 103 ft (Clayton).
W-1	10/13/87	912330.4235	1623815.4903	819.69	20.5	NA	10-20	Saprolite	2 inch dia. PVC, TOC 0.6 ft above ground surface (ags). Well replaced 11/93, DWM permit-required sample location
W-2	12/6/89	912472.7625	1623927.6441	824.21	17	NA	7-17	Sap/PWR	2 inch dia. PVC, TOC 3 ft ags, DWM permit-required sample location
W-3	12/7/89	911826.4895	1623693.8609	799.62	17	NA	7-17	Sap/PWR	2 inch dia. PVC, TOC 2.5 ft ags, (alternate IDs W-3A, W-2A, RH-MW-003), DWM permit-required sample location
W-3B	5/14/04	911806.8916	1623678.0188	801.23	210	Unknown	190-210	Bedrock	2 inch dia. PVC, TOC 3 ft ags, artesian well, DWM permit-required sample location
W-4	6/8/93	NE	NE	NE	188	NA	138-188	Bedrock	2 inch dia. PVC, damaged, *abandoned 8/27/03*
W-5	5/17/93	NE	NE	NE	24	NA	13-23.5	Bedrock	2 inch dia PVC, Phase 3 permanent MW
W-6	8/22/03	911995.8163	1621967.2266	977.93	200	NA	170-200	Bedrock	2 inch dia. PVC, TOC 2' ags, (alternate IDs MW-6), DWM permit-required sample location
B-9	5/20/93	NE	NE	NE	23	NA	18-22.5	Saprolite	2 inch dia PVC, Phase 3 temporary piezometer, no protective well box around well
B-10	5/19/93	NE	NE	NE	14	NA	9-13.5	Saprolite	2 inch dia PVC, Phase 3 temporary piezometer, not located October 2009
B-11	5/20/93	NE	NE	NE	54	NA	48-53	Saprolite	2 inch dia PVC, Phase 3 temporary piezometer, no protective well box around well
B-12	5/19/93	NE	NE	NE	8.5	NA	3.5-8	Saprolite	2 inch dia PVC, Phase 3 temporary piezometer, no protective well box around well
B-14	5/20/93	NE	NE	NE	54	NA	48-53	Saprolite	2 inch dia PVC, Phase 3 temporary piezometer, no protective well box around well

NE - Not Established
MSL - above mean sea level
BTOC = Below Top of Casing
PWR = Partially Weathered Rock
BGL - Below ground level
Survey data by Lawrence Associates, P.A., January 4, 2010

TABLE 2
GROUND WATER ELEVATIONS
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

WELL IDENTIFICATION	**PW-1**		**W-1**		**W-2**		**W-3**		**W-3B**		**W-5**		**W-6**	
TOC ELEVATION:	920.63 (Approximate)		819.69		824.21		799.62		801.23		Not Established		977.93	
SCREENED INTERVAL (ft BGL)	21.5-405		10-20		7-17		7-17		190-210		13-23.5		170-200	
GEOLOGIC ZONE SCREENED	Bedrock		Saprolite		Saprolite/PWR		Saprolite/PWR		Bedrock		Bedrock		Bedrock	
GAUGING DATE	Depth ft BTOC	Elevation ft MSL	Depth ft BTOC	Elevation ft MSL	Depth ft BTOC	Elevation ft MSL	Depth ft BTOC	Elevation ft MSL	Depth ft BTOC	Elevation ft MSL	Depth ft BTOC	Elevation ft MSL	Depth ft BTOC	Elevation ft MSL
At Installation	NA	--	13.5	806.19	11	813.21	14	785.62	Artesian	> 801.23	6	--	50	927.93
Historical Data Not Presented	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Oct-2006	--	--	11.59	808.10	13.32	810.89	7.54	792.08	Artesian	> 801.23	--	--	99.00	878.93
27-Apr-2007	--	--	10.88	808.81	13.96	810.25	6.98	792.64	Artesian	> 801.23	--	--	94.48	883.45
19-Nov-2007	--	--	13.29	806.40	16.08	808.13	7.78	791.84	Artesian	> 801.23	--	--	105.00	872.93
30-Apr-2008	--	--	12.84	806.85	14.68	809.53	7.04	792.58	Artesian	> 801.23	--	--	99.29	878.64
30-Apr-2009	--	--	13.23	806.46	15.18	809.03	7.12	792.50	Artesian	> 801.23	--	--	98.28	879.65
12-Oct-2009	72.00	848.63	14.53	805.16	17.50	806.71	7.63	791.99	[1] -1.22	802.45	10.08	--	99.64	878.29
19-Apr-2010	67.00	853.63	10.75	808.94	14.16	810.05	6.37	793.25	[1] -1.05	802.28	8.38	--	98.29	879.64
11-Oct-2010	--	--	12.04	807.65	15.85	808.36	6.99	792.63	[1] -0.89	802.12	9.73	--	98.93	879.00

WELL IDENTIFICATION	**B-9**		**B-10**		**B-11**		**B-12**		**B-14**	
TOC ELEVATION:	Not Established		Not Established		Not Established		Not Established		Not Established	
SCREENED INTERVAL (ft BGL)	18-22.5		9-13.5		48-53		3.5-8		48-53	
GEOLOGIC ZONE SCREENED	Bedrock		Saprolite		Saprolite		Saprolite		Saprolite	
GAUGING DATE	Depth ft BTOC	Elevation ft MSL	Depth ft BTOC	Elevation ft MSL	Depth ft BTOC	Elevation ft MSL	Depth ft BTOC	Elevation ft MSL	Depth ft BTOC	Elevation ft MSL
At Installation	16.8	--	11.2	--	NA	--	6.4	--	NA	--
Historical Data Not Presented	--	--	--	--	--	--	--	--	--	--
19-Oct-2006	--	--	--	--	--	--	--	--	--	--
27-Apr-2007	--	--	--	--	--	--	--	--	--	--
19-Nov-2007	--	--	--	--	--	--	--	--	--	--
30-Apr-2008	--	--	--	--	--	--	--	--	--	--
30-Apr-2009	--	--	--	--	--	--	--	--	--	--
12-Oct-2009	20.40	--	Not located	--	--	--	10.26	--	--	--
19-Apr-2010	18.78	--	Not located	--	--	--	6.18	--	--	--
11-Oct-2010	21.63	--	Not located	--	--	--	9.40	--	--	--

NE - Not Established
MSL - above mean sea level
PWR = Partially Weathered Rock
BTOC = Below Top of Casing
BGL - Below ground level
[1] - Artesian condition, Value represents water level above permanent TOC. Measured via temporary standpipe installed on permanent casing.

TABLE 3
GROUND WATER AND SURFACE WATER ANALYTICAL RESULTS SUMMARY - OCTOBER 2010
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

Sample Location / ID	Date	Aluminum	Arsenic	Barium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc	Nitrate-nitrogen	Sulfate	Dissolved Solids	Total Organic Carbon	pH	Temperature (degrees Celsius)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
NC 2L Ground Water Standard		NE	0.010	0.700	0.002	0.010	1.0	0.300	0.015	0.050	0.001	0.020	0.020	1.00	10.0	250	500	NE	6.5 - 8.5	NE	NE	NE	NE	NE
Solid Waste Section Limit		NE	0.010	0.100	0.001	0.010	0.010	0.300	0.010	0.050	0.0002	0.010	0.010	0.010	10.0	250	NE	NE	NE	NE	NE	NE	NE	NE
NC 2B Surface Water Standard		0.087	0.050	1.0 [1]	0.002	0.050	0.007	1.0	0.025	0.200 [1]	0.000012	0.005	0.00006	0.05	10.0 [1]	250 [1]	500 [1]	NE	6.0 - 9.0	NE	NE	NE	NE	NE
GROUND WATER MONITORING WELLS																								
W-1	10/11/10	0.063 [J]	0.0067	0.027	<0.001	0.0009 [J]	<0.025	0.30	0.0013 [J]	**5.0**	<0.0002	**0.033**	0.0013 [J]	**0.012**	0.78	**1,400**	**3,100**	26.6	6.1	20.4	2,990	110	147	0.00
W-2	10/11/10	2.30	0.0024 [J]	**0.240**	0.00068 [J]	0.0087	**0.011** [J]	**6.60**	0.0017 [J]	**2.30**	<0.0002	**0.011**	<0.005	**0.081**	0.21	**660**	**1,400**	10.1	6.3	17.0	1,340	712	46	3.93
W-3	10/11/10	<0.250	<0.005	**0.110**	<0.001	0.0013 [J]	<0.025	0.021 [J]	<0.005	0.0016 [J]	<0.0002	**0.077**	<0.005	**0.020**	0.79	89	310	4.0	5.9	18.0	497	6.7	256	1.39
W-3B	10/11/10	<0.250	0.0024 [J]	0.045	<0.001	0.00095 [J]	<0.025	**0.50**	<0.005	**0.980**	<0.0002	0.0099	<0.005	0.0060 [J]	0.14 [J]	**300**	**830**	<0.20	6.7	17.5	1,010	41	-25	0.00
W-6	10/11/10	0.320	<0.005	0.037	<0.001	**0.420**	**0.019** [J]	**2.8**	<0.005	**0.056**	<0.0002	<0.005	<0.005	**0.063**	0.12 [J]	13	410	3.9	10.6	17.7	816	36	-250	0.00
SURFACE WATER																								
SS-01	10/11/10	0.052 [J]	0.0011 [J]	0.071	<0.001	0.0016 [J]	<0.025	0.16	<0.005	0.016 [J]	<0.0002	<0.005	<0.005	**0.036**	0.64	40	240	3.3	7.8	16.5	455	8.0	107	12.8
SS-02	10/11/10	<0.250	0.0011 [J]	0.069	<0.001	0.0014 [J]	<0.025	0.27	<0.005	**0.310**	<0.0002	**0.0089**	<0.005	0.0064 [J]	1.2	250	**660**	4.7	7.6	15.2	999	0.0	113	8.3

All concentrations in milligrams per liter.
NS - Not sampled
NE - Not established
[1] - No freshwater aquatic life standard established. Water Supply criteria presented.
Bold indicates exceedance of Solid Waste Section Limits (SWSL)
Gray background indicates exceedance of applicable NC Ground Water or Surface Water Standard
J - Estimated value between laboratory method detection limit (MDL) and practical quantitation limit (PQL)

APPENDIX A
HISTORICAL GROUND WATER AND SURFACE WATER QUALITY ANAYTICAL DATA

TABLE A1
GROUND WATER ANALYTICAL RESULTS SUMMARY
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

Sample Location / ID	Date	Aluminum	Arsenic	Barium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc	Nitrate-nitrogen	Sulfate	Dissolved Solids	Total Organic Carbon	pH	Temperature (degrees Celsius)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
NC 2L Ground Water Standard		NE	0.010	0.700	0.002	0.010	1.0	0.300	0.015	0.050	0.001	0.020	0.020	1.00	10.0	250	500	NE	6.5 - 8.5	NE	NE	NE	NE	NE
Solid Waste Section Limit		NE	0.010	0.100	0.001	0.010	0.010	0.300	0.010	0.050	0.0002	0.010	0.010	0.010	10.0	250	NE	NE	NE	NE	NE	NE	NE	NE
NC 2B Surface Water Standard		0.087	0.050	1.0 [1]	0.002	0.050	0.007	1.0	0.025	0.200 [1]	0.000012	0.005	0.00006	0.05	10.0 [1]	250 [1]	500 [1]	NE	6.0 - 9.0	NE	NE	NE	NE	NE
	4/29/88	8.03	<0.010	**0.235**	**0.008**	**0.016**	<0.020	**17.4**	<0.005	**1.10**	<0.00020	<0.010	<0.010	**0.031**	2.2	130	156	2.24	5.9					
W-1	7/13/89	NS	<0.010	0.100	<0.002	<0.020	NS	NS	<0.005	NS	<0.00020	0.005	<0.010	<0.020	NS	NS	NS	NS	NS	NS	NS	--	--	--
	9/24/90	5.62	<0.010	**0.189**	<0.002	<0.020	<0.020	**8.90**	<0.005	**0.15**	<0.00020	**0.059**	<0.010	<0.020	0.71	14	185	13	6.3	19.3	195	--	--	--
	10/24/91	0.161	<0.010	**0.346**	<0.002	<0.020	<0.020	0.15	<0.005	**0.097**	<0.00020	**0.0239**	<0.010	<0.020	0.238	126	303	12.0	6.2	20.3	425	--	--	--
(RHMW-001)	3/26/92	2.85	<0.010	**0.736**	<0.002	<0.020	<0.020	**0.83**	<0.005	**1.83**	**0.00032**	**0.0219**	<0.010	**0.038**	1.25	123	482	14.0	6.6	9.3	682	--	--	--
	9/30/92		<0.010	**0.12**	<0.002	<0.020	<0.020		<0.005	**0.31**	<0.00020	**0.0320**	<0.010	<0.020	0.382	**292**	**798**	5.0	5.9	17.8	1,153	--	--	--
	3/31/93	0.364	<0.010	**0.137**	<0.002	<0.020	<0.020	**1.13**	<0.005	**2.23**	<0.00020	**0.0132**	<0.010	**0.033**	0.550	**486**	**1,169**	33.0	5.5	16.1	1,587	--	--	--
	9/17/93	28.6	<0.010	**0.697**	**0.0038**	<0.020	**0.044**	**59.7**	**0.013**	**3.49**	<0.00020	0.0051	<0.010	**0.195**	0.925	**565**	**1,643**	6.0	5.9	18	2,310	--	--	--
well replaced 11/93	3/30/94	5.32	<0.010	**0.545**	<0.002	<0.020	**0.02**	**18.8**	0.008	**0.51**	<0.00020	0.0060	<0.010	**0.107**	0.390	**633**	**1,680**		5.6	15.2	1,250	--	--	--
	9/30/94	1.81	<0.010	<0.250	<0.002	<0.020	**0.022**	**9.96**	<0.005	**4.47**	<0.00020	**0.0130**	<0.010	**0.019**	0.450	**758**	**2,420**	123	6.0	18.1	3,010	--	--	--
	3/31/95	24	<0.010	**1.25**	<0.002	<0.020	**0.026**	**53.9**	**0.011**	**1.58**	<0.00020	**0.0120**	<0.010	**0.115**	0.850	**797**	**2,140**		5.9	15.8	2,820	--	--	--
	9/29/95	7.65	<0.010	**0.367**	**0.004**	<0.020	**0.024**	**18.8**	0.01	**4.0**	<0.00020	**0.0120**	<0.010		1.000	**464**	**2,780**	4.04	4.5	16.2	3,720	--	--	--
	3/20/96	149	<0.010	**0.96**	**0.050**	**0.200**	**0.22**	---	**0.063**	**11.4**	<0.00020	<0.010	<0.010	**0.695**	---	**2,320**	**2,670**	8.75	6.5	15	3,060	--	--	--
	9/27/96	7.11	<0.010	<0.250	<0.002	<0.020	<0.020	**22.6**	0.007	**2.30**	<0.00020	<0.010	<0.010	**0.051**	1.520	**1,320**	**2,970**	3.81	6.1	19	3,350	--	--	--
	3/29/97	2.99	<0.010	<0.250	<0.002	<0.020	<0.020	---	**0.016**	**2.34**	<0.00020	<0.010	<0.010	**0.072**	1.200	**1,360**	**2,860**	6.87	6.0	14	1,890	--	--	--
	9/17/97	2.94	<0.010	<0.250	**0.003**	<0.020	<0.020	**12.9**	0.006	**3.68**	<0.00020	**0.0330**	<0.010	**0.136**	1.700	**1,300**	**3,110**	5.29	6.3	17	3,540	--	--	--
	3/27/98	2.40	<0.010	<0.250	<0.002	<0.020	<0.020	**7.83**	<0.005	**2.34**	<0.00020	**0.0160**	<0.010	<0.020	0.575	**1,060**	**3,040**	3.64	6.5	19.6	627	--	--	--
	9/30/98	2.35	<0.010	<0.250	<0.002	<0.020	<0.020	**5.18**	**0.015**	**2.71**	<0.00020	**0.0210**	<0.010	<0.020	1.050	**1,030**	**3,210**	17.5	6.2	20	1,250	--	--	--
	9/30/98	1.25	<0.010	<0.250	<0.002	<0.020	<0.020	**4.98**	<0.005	**2.72**	<0.00020	**0.030**	<0.010	<0.020	1.10	**1,040**	**3,320**	9.25	NS	NS	NS	--	--	--
	3/31/99	1.82	<0.010	<0.250	<0.002	<0.020	<0.020	**4.69**	0.010	**2.45**	<0.00020	**0.0150**	<0.010	<0.020	0.750	**1,830**	**3,230**	8.82	5.6	17	1,610	--	--	--
duplicate	3/31/99	1.17	<0.010	<0.250	<0.002	<0.020	<0.020	**4.20**	<0.005	**2.56**	<0.00020	**0.018**	<0.010	<0.020	0.45	**1,920**	**3,230**	3.73	NS	NS	NS	--	--	--
	9/29/99	1.65	<0.010	<0.250	<0.002	<0.020	<0.020	**4.78**	0.008	**2.79**	<0.00020	**0.0310**	<0.010	<0.020	0.440	2.1	**3,440**	3.73	5.7	19	1,980	--	--	--
	9/15/00	0.979	<0.010	<0.250	<0.002	<0.020	<0.020	**3.20**	0.008	**2.93**	<0.00020	**0.0220**	<0.010	<0.020	0.800	**1,540**	**3,480**	13.3	5.8	18	1,040	--	--	--
	3/16/00	1.82	<0.010	<0.250	<0.002	<0.020	<0.020	**3.36**	0.006	**2.84**	<0.00020	<0.010	<0.010	**0.031**	0.402	**1,390**	**3,330**	3.93	NS	NS	NS	--	--	--
	3/23/01	0.226	<0.010	<0.250	<0.002	<0.020	<0.020	**1.86**	0.010	**3.18**	<0.00020	<0.010	<0.010	<0.020	0.370	**1,260**	**3,320**	6.13	6.2	17	1,090	--	--	--
	10/4/01	0.728	<0.010	<0.250	**0.002**	<0.020	<0.020	**3.14**	0.009	**2.89**	<0.00020	<0.010	<0.010	**0.037**	0.430	**1,420**	**3,380**	31	8.0	21	3,300	--	--	--
	3/28/02	1.01	<0.010	<0.250	<0.002	<0.020	**0.02**	**3.60**	0.008	**3.27**	NS	<0.010	<0.010	**0.048**	0.350	**1,220**	**3,310**	3.43	6.0	15	1,090	--	--	--
duplicate	3/28/02	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**5.45**	<0.005	**3.58**	NS	<0.010	<0.010	<0.020	0.35	**1,050**	**2,920**	3.43	6.0	15	1,090	--	--	--
	10/3/02	8.96	<0.010	<0.250	**0.002**	<0.020	<0.020	**14.0**	0.008	**3.91**	<0.00020	<0.010	<0.010	**0.051**	0.740	**1,330**	**3,210**	3.19	6.3	18	1,280	--	--	--
	3/25/03	1.42	<0.010	<0.250	<0.002	<0.020	<0.020	**2.77**	0.007	**3.54**	<0.00020	<0.010	<0.010	**0.025**	1.210	**1,130**	**3,310**	3.21	6.4	19	910	--	--	--
	10/2/03	0.402	<0.010	**0.414**	<0.002	<0.020	<0.020	**2.33**	0.005	**3.84**	<0.00020	<0.010	<0.010	<0.020	1.97	**1,350**	**3,470**	3.52	5.9	20	3,210	--	--	--
	4/28/04	1.44	<0.010	<0.250	<0.002	<0.020	<0.020	**6.89**	**0.012**	**3.92**	<0.00020	<0.010	<0.010	<0.020	1.130	**1,350**	**3,580**	5.13	NS	15.1	3,670	--	--	--
	10/26/04	7.45	<0.010	<0.250	<0.002	<0.020	**0.021**	**20.1**	0.010	**4.80**	<0.00020	<0.010	<0.010	<0.020	0.438	**1,310**	**3,630**	3.10	NS	NS	3,510	--	--	--
	4/27/05	0.697	<0.010	<0.250	**0.002**	<0.020	<0.020	**3.99**	0.010	**4.08**	<0.00020	<0.010	<0.010	<0.020	0.408	**1,820**	**3,601**	3.45	NS	NS	3,610	--	--	--
	10/20/05	9.03	<0.010	<0.250	<0.002	<0.020	**0.283**	**18.4**	**0.015**	**3.92**	<0.00020	<0.010	<0.010	**0.104**	0.449	**790**	**3,520**	52.0	NS	NS	2,370	--	--	--
	10/19/06	0.214	<0.010	<0.250	<0.002	<0.020	<0.020	**0.926**	0.006	**4.16**	<0.00020	<0.010	<0.010	**0.056**	0.383	**1,790**	**3,310**	3.74	NS	NS	2,120	--	--	--
	4/27/07	0.787	<0.010	<0.250	<0.002	<0.020	<0.020	**1.250**	<0.005	**3.55**	<0.00020	<0.010	<0.010	<0.020	0.484	**1,300**	**3,390**	6.35	NS	NS	4,510	--	--	--
	11/19/07	0.186	<0.010	<0.250	<0.002	<0.020	<0.020	**0.778**	<0.005	**4.08**	<0.00020	<0.010	<0.010	<0.020	0.178	**1,950**	**3,430**	3.95	NS	NS	3,460	--	--	--
	4/30/08	0.291	<0.010	<0.250	<0.002	<0.020	<0.020	**0.536**	<0.005	**3.87**	<0.00020	<0.010	<0.010	<0.020	0.158	**1,920**	**3,410**	2.99	NS	NS	3,590	--	--	--
duplicate	4/30/08	0.349	<0.010	<0.250	<0.002	<0.020	<0.020	**0.698**	<0.005	**3.91**	<0.00020	<0.010	<0.010	<0.020	0.149	**1,860**	**3,380**	2.85	NS	NS	3,600	--	--	--
	10/29/08	<0.100	<0.010	0.0258	0.00032	<0.010	<0.010	**0.427**	0.0049	**3.99**	<0.0002	<0.010	<0.010	<0.010	0.240	**1,640**	**3,310**	4.95	NS	NS	3,840	--	--	--
	4/30/09	<0.100	<0.010	0.0305	**0.00344**	<0.010	0.0049	**0.599**	**0.0131**	**4.56**	<0.0002	<0.010	0.00144	<0.010	0.101	**1,890**	**3,370**	6.06	NS	NS	3,860	--	--	--
	10/12/09	0.098	0.0029	0.022	<0.001	0.002	0.0011	**0.410**	<0.005	**4.00**	<0.0002	<0.020	0.0005	<0.30	0.280	**1,500**	**3,100**	77.9	6.1	14.9	4,620	14.0	87	3.32
	4/20/10	3.5	<0.010	**0.13**	<0.001	**0.012**	<0.010	**6.00**	<0.005	**4.20**	<0.0002	<0.020	<0.005	<0.030	0.670	**1,500**	**3,100**	56.5	6.1	16.5	11,800	57.9	119	0.00
	10/11/10	0.063	0.0067	0.027	<0.001	0.0009	<0.025	0.30	0.0013	**5.00**	<0.0002	**0.033**	0.0013	**0.012**	0.780	**1,400**	**3,100**	26.6	6.1	20.43	2,990	110	147	0.00

TABLE A1
GROUND WATER ANALYTICAL RESULTS SUMMARY
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

Sample Location / ID	Date	Aluminum	Arsenic	Barium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc	Nitrate-nitrogen	Sulfate	Dissolved Solids	Total Organic Carbon	pH	Temperature (degrees Celsius)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
NC 2L Ground Water Standard		NE	0.010	0.700	0.002	0.010	1.0	0.300	0.015	0.050	0.001	0.020	0.020	1.00	10.0	250	500	NE	6.5 - 8.5	NE	NE	NE	NE	NE
Solid Waste Section Limit		NE	0.010	0.100	0.001	0.010	0.010	0.300	0.010	0.050	0.0002	0.010	0.010	0.010	10.0	250	NE	NE	NE	NE	NE	NE	NE	NE
NC 2B Surface Water Standard		0.087	0.050	1.0 [1]	0.002	0.050	0.007	1.0	0.025	0.200 [1]	0.000012	0.005	0.00006	0.05	10.0 [1]	250 [1]	500 [1]	NE	6.0 - 9.0	NE	NE	NE	NE	NE
W-2 (RHMW-002, MW-1A)	1/16/90	NS	<0.010	**0.21**	<0.002	<0.020	NS	NS	<0.005	NS	0.00020	<0.010	<0.010	NS	NS	NS	NS	NS	6.1	NS	NS	--	--	--
	9/24/90	0.85	<0.010	**0.219**	**0.0083**	<0.020	<0.020	**1.40**	<0.005	**9.90**	<0.00020	<0.010	<0.010			41	**533**	14.0	6.2	16.7	717	--	--	--
	10/24/91	0.169	<0.010	0.082	<0.002	<0.020	<0.020	**9.30**	0.0074	**16.5**	<0.00020	<0.010	<0.010		1.67	**1,150**	**1,937**	15.0	6.0	18.7	2,080	--	--	--
	3/26/92	2.79	<0.010	<0.250	**0.0034**	<0.020	<0.020	**38.4**	**0.016**		<0.00020	<0.010	<0.010			**1,860**	**2,611**	12.0	5.8	13.8	2,880	--	--	--
	9/30/92		<0.010	<0.250	<0.002	<0.020	<0.020		<0.005	**21.3**	<0.00020	<0.010	<0.010		1.03	**1,320**	**2,525**	6.0	6.1	17.9	2,670	--	--	--
	3/31/93	0.417	<0.010	**0.177**	<0.002	<0.020	<0.020	**1.28**	0.0076	**0.053**	<0.00020	<0.010	<0.010	**0.04**	0.05	**600**	**948**	2.0	5.6	15.2	167	--	--	--
	9/17/93	5.65	<0.010	**0.508**	**0.0038**	<0.020	**0.079**	**34.7**	**0.012**	**22.3**	<0.00020	<0.010	<0.010	**0.062**	0.166	**1,570**	**3,350**	12.0	6.4	20.8	4,030	--	--	--
	3/30/94	18.7	<0.010	**2.77**	**0.003**	**0.076**	<0.020	**50.9**	**0.034**	**2.40**	<0.00020	<0.010	<0.010	**0.025**	6	200	**555**		5.7	16	1,640	--	--	--
	9/30/94	21.4	<0.010	**0.942**	<0.002	**0.037**	**0.058**	**0.36**	**0.013**	**3.71**	<0.00020	<0.010	<0.010	**0.088**	0.45	**415**	**969**	15.9	6.2	18.3	1,440	--	--	--
	3/31/95	45	<0.010	**1.71**	<0.002	**0.078**	**0.058**	**5.05**	**0.028**	**3.66**	<0.00020	<0.010	<0.010	**0.172**	0.85	155	460		6.2	13.7	930	--	--	--
	9/29/95	109	<0.010	**3.95**	**0.03**	**0.209**	**0.142**	**206**	**0.068**	**3.75**	<0.00020	0.005	<0.010	**0.292**	0.313	**379**	**944**	7.37	5.6	16.4	1,345	--	--	--
	3/30/96	66.5	<0.010	**1.25**	**0.012**	**0.105**	**0.078**	**96.6**	**0.044**	**3.61**	<0.00020	<0.010	<0.010	**0.183**	---	13	127	4.68	5.6	14	316	--	--	--
	9/27/96	89.1	<0.010	**1.51**	<0.002	<0.020	0.0088	**150**	**0.015**	**3.06**	<0.00020	<0.010	<0.010	**0.098**	0.11	---	373	9.22	7.0	21	840	--	--	--
	3/29/97	64.4	<0.010	**1.10**	**0.02**	**0.102**	**0.072**	**98**	**0.047**	**2.50**	<0.00020	<0.010	<0.010	**0.15**	0.09	**1,010**	**2,020**	10.8	6.4	14	1,300	--	--	--
	9/17/97	56.5	<0.010	**1.62**	**0.013**	**0.087**	**0.088**	**99.9**	**0.035**	**20.20**	<0.00020	<0.005	<0.010	**0.201**	1.13	**1,410**	**3,600**	11.3	6.6	17	3,780	--	--	--
	3/27/98	10.9	<0.010	**0.584**	<0.002	<0.020	<0.020	**26.0**	<0.005	**6.16**	<0.00020	<0.010	<0.010	<0.020	<0.050	116	**1,130**	6.34	6.8	19.9	743	--	--	--
	9/30/98	15.4	<0.010	**0.518**	<0.002	**0.039**	**0.034**	**28.8**	**0.022**	**15.0**	<0.00020	<0.010	<0.010	**0.060**	0.78	**762**	**3,380**	15.7	6.4	21	753	--	--	--
	3/31/99	2.38	<0.010	**0.852**	<0.002	**0.045**	**0.035**	**47.0**	**0.021**	**6.92**	<0.00020	<0.010	<0.010	**0.073**	0.32	26	262	1.41	6.2	18	126	--	--	--
	9/29/99	9.7	<0.010	**0.296**	<0.002	**0.036**	<0.020	**26.9**	0.009	**0.20**	<0.00020	<0.010	<0.010	<0.020	0.08	**293**	458	15.3	6.2	20	182	--	--	--
	9/15/00	5.49	<0.010	**0.508**	<0.002	<0.020	<0.020	**1.60**	0.007	**1.140**	<0.00020	<0.010	<0.010	<0.020	0.06	93	374	1.89	6.6	19	170	--	--	--
	3/16/00	12.70	<0.010	**0.434**	<0.002	**0.028**	**0.025**	**19.4**	<0.005	**2.160**	<0.00020	<0.010	<0.010	**0.028**	0.136	**281**	**642**	7.36	NS	NS	NS	--	--	--
	3/23/01	2.60	<0.010	<0.250	<0.002	<0.020	<0.020	**4.74**	0.006	**0.234**	<0.00020	<0.010	<0.010	**0.037**	0.08	26	173	6.82	6.5	18	270	--	--	--
	3/28/02	17.9	<0.010	<0.250	<0.002	**0.047**	**0.046**	**45.3**	**0.016**	**3.03**	NS	<0.010	<0.010	**0.088**	<0.050	23	219	11.9	6.7	14	140	--	--	--
	10/3/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--
	3/25/03	6.07	<0.010	**0.264**	<0.002	<0.020	<0.020	**8.42**	<0.005	**0.115**	<0.00020	<0.010	<0.010	**0.025**	0.069	14	118	5.29	6.1	18	140	--	--	--
	10/2/03	4.63	<0.010	**0.277**	<0.002	<0.020	<0.020	**10.9**	0.008	**11.1**	<0.00020	<0.010	<0.010	<0.020	0.122	**1,270**	**3,380**	7.78	6.1	20	3,020	--	--	--
	4/28/04	3.6	<0.010	<0.250	<0.002	<0.020	<0.020	**11.0**	0.006	**2.63**	<0.00020	<0.010	<0.010	**0.036**	0.193	233	**634**	8.13	NS	14.4	1,460	--	--	--
	10/26/04	30.2	<0.010	**2.14**	**0.009**	**0.112**	**0.083**	**65.6**	**0.021**	**5.08**	<0.00020	<0.010	<0.010	**0.144**	4.17	**1,710**	**3,800**	7.22	NS	NS	3,690	--	--	--
	4/27/05	2.75	<0.010	<0.250	**0.006**	<0.020	<0.020	**9.15**	0.008	**8.95**	<0.00020	<0.010	<0.010	**0.026**	1.08	**1,260**	**2,868**	13.8	NS	NS	3,170	--	--	--
	10/20/05	9.38	<0.010	**0.377**	**0.002**	**0.020**	**0.203**	**26.2**	0.009	**6.8**	<0.00020	<0.010	<0.010	**0.116**	0.550	**1,510**	**1,700**	22	NS	NS	1,110	--	--	--
	10/19/06	3.63	<0.010	<0.250	<0.002	<0.020	<0.020	**8.08**	0.006	**1.90**	<0.00020	<0.010	<0.010	**0.044**	0.133	**749**	**1,210**	8.99	NS	NS	1,050	--	--	--
	4/27/07	46.5	<0.010	**0.451**	<0.002	0.002		**55.9**			<0.00020	<0.010	<0.010	**0.046**	0.452	**1,570**	**2,800**	9.01	NS	NS	1,880	--	--	--
	11/19/07	5.75	<0.010	<0.250	<0.002	<0.020	<0.020	**12.0**	0.008	**3.03**	<0.00020	<0.010	<0.010	<0.020	<0.050	**1,330**	**1,310**	9.71	NS	NS	1,330	--	--	--
	4/30/08	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**4.45**	0.005	**0.334**	<0.00020	<0.010	<0.010	**0.072**	0.071	246	330	7.26	NS	NS	609	--	--	--
	4/30/09	5.17	<0.010	**0.268**	<0.001	**0.0139**	**0.0113**	**12.5**	**0.0118**	**0.441**	<0.0002	<0.010	<0.010	**0.0375**	0.072	10.4	157	7.57	NS	NS	93.7	--	--	--
	10/15/09	30	**0.013**	**1.6**	**0.0048**	**0.1100**	**0.0670**	**200**	**0.0360**	**3.40**	<0.0002	**0.042**	<0.005	**0.41**	Not sampled - insufficient sample volume				6.4	15.9	900	30	-145	1.21
	4/20/10	0.43	<0.010	**0.18**	<0.001	<0.005	<0.010	**0.49**	<0.005	**2.40**	<0.0002	<0.020	<0.005	<0.030	<0.20	**830**	**1,900**	48.8	8.0	13.8	1,880	411	15	5.88
	10/11/10	2.30	0.0024	**0.240**	0.00068	0.0087	**0.011**	**6.60**	0.0017	**2.30**	<0.0002	**0.011**	<0.005	**0.081**	0.21	**660**	**1,400**	10.1	6.3	17.0	1,340	712	46	3.99

TABLE A1
GROUND WATER ANALYTICAL RESULTS SUMMARY
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

Sample Location / ID	Date	Aluminum	Arsenic	Barium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc	Nitrate-nitrogen	Sulfate	Dissolved Solids	Total Organic Carbon	pH	Temperature (degrees Celsius)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
NC 2L Ground Water Standard		NE	0.010	0.700	0.002	0.010	1.0	0.300	0.015	0.050	0.001	0.020	0.020	1.00	10.0	250	500	NE	6.5 - 8.5	NE	NE	NE	NE	NE
Solid Waste Section Limit		NE	0.010	0.100	0.001	0.010	0.010	0.300	0.010	0.050	0.0002	0.010	0.010	0.010	10.0	250	NE	NE	NE	NE	NE	NE	NE	NE
NC 2B Surface Water Standard		0.087	0.050	1.0 [1]	0.002	0.050	0.007	1.0	0.025	0.200 [1]	0.000012	0.005	0.00006	0.05	10.0 [1]	250 [1]	500 [1]	NE	6.0 - 9.0	NE	NE	NE	NE	NE
W-3 (RHMW-003 / 003A, W-2A)	1/16/90	NS	<0.010	**0.300**	<0.002	<0.020	NS	NS	<0.005	NS	<0.00020	<0.010	<0.010	NS	NS	NS	NS	NS	7.0	NS	NS	--	--	--
	9/6/90	NS	<0.010	**8.990**	**0.02**	**0.81**	NS	NS	**0.33**	NS	**0.0005**	0.0059	<0.005	NS	NS	NS	NS	NS	6.7	NS	NS	--	--	--
	9/21/90	2.17	<0.010	**0.134**	**0.0081**	<0.040	<0.020	**2.00**	<0.005	**0.08**	<0.00020	<0.005	<0.010	<0.020	0.67	8.5	174	12	6.5	16.2	238	--	--	--
	10/23/91	0.213	<0.010	**0.149**	<0.002	<0.040	<0.020	0.24	**0.33**	**0.116**	<0.00020	<0.005	<0.010	<0.020	<0.050	<10.00	214	12	6.7	19.7	207	--	--	--
	3/25/92	<0.200	<0.010	**0.119**	<0.002	<0.020	<0.020	<0.100	<0.005	<0.020	<0.00020	<0.005	<0.010	<0.020	6.81	22.5	136	10	6.1	13.1	307	--	--	--
	9/29/92	0.67	<0.010	**0.120**	<0.002	<0.020	<0.020	**0.580**	<0.005	**0.410**	**0.0003**	<0.005	<0.010	<0.020	0.232	20	189	1	5.9	17.1	223	--	--	--
	3/31/93	1.17	<0.010	**0.180**	<0.002	<0.020	<0.020	**2.30**	<0.005	<0.020	<0.00020	<0.005	<0.010	**0.055**	<0.050	14.9	163	2	5.5	15.7	207	--	--	--
	9/17/93	9.46	<0.010	**0.444**	**0.0028**	<0.020	**0.071**	**20.7**	0.010	**0.173**	<0.00020	<0.005	<0.010	**0.106**	0.25	12	207	2	6.2	18.3	282	--	--	--
	3/30/94	4.42	<0.010	**0.259**	<0.002	<0.020	**0.024**	**10.7**	**0.15**	**0.264**	<0.00020	<0.005	<0.010	**0.107**	1.48	17	180	<5	5.7	15.9	180	--	--	--
	9/30/94	25.4	<0.010	**0.485**	<0.002	**0.026**	**0.067**	**32.0**	**0.017**	**0.526**	<0.00020	<0.005	<0.010	**0.086**	<0.050	<20	193	26.1	6.3	18	202	--	--	--
	3/31/95	31.3	<0.010	**0.466**	<0.002	**0.027**	**0.055**	**36.4**	**0.025**	**0.430**	<0.00020	<0.005	<0.010	**0.186**	0.28	133	206	<5	6.6	12.7	220	--	--	--
	9/29/95	55.4	<0.010	**0.813**	**0.007**	**0.051**	**0.122**	**70.1**	**0.042**	**1.020**	<0.00020	<0.005	<0.010	**0.183**	0.2	139	302	1.32	5.4	15.4	245	--	--	--
	3/30/96	17.1	<0.010	**0.436**	**0.002**	**0.02**	**0.046**	**25.9**	**0.019**	**0.409**	<0.00020	<0.005	<0.010	**0.1**	1.25	20	217	3.41	5.6	13	285	--	--	--
	9/27/96	11.2	<0.010	**0.257**	<0.002	<0.020	<0.020	**16.4**	**0.015**	**0.235**	<0.00020	<0.005	<0.010	**0.094**	0.11	59.8	215	1.1	7.8	18	243	--	--	--
	3/29/97	16.4	<0.010	**0.347**	**0.003**	<0.020	**0.043**	**23.0**	**0.013**	**0.384**	<0.00020	<0.005	<0.010	**0.051**	0.12	21	223	7.86	6.6	12	153	--	--	--
	9/17/97	32.2	<0.010	**0.478**	**0.004**	**0.027**	**0.067**	**40.2**	**0.024**	**0.590**	<0.00020	<0.005	<0.010	**0.280**	1.10	89	262	1.29	6.9	16	366	--	--	--
	3/27/98	12.2	<0.010	**0.491**	<0.002	<0.020	<0.020	**21.3**	<0.005	**0.604**	<0.00020	<0.010	<0.010	<0.020	0.130	19.1	248	1.26	6.1	19.9	542	--	--	--
	9/30/98	4.15	<0.010	<0.250	<0.002	<0.020	<0.020	**5.69**	<0.005	**0.151**	<0.00020	<0.010	<0.010	**0.039**	0.300	5.1	238	1.34	6.8	20	276	--	--	--
	3/31/99	2.38	<0.010	<0.250	<0.002	<0.020	<0.020	**3.93**	<0.005	**0.126**	<0.00020	<0.010	<0.010	**0.073**	0.32	26.3	262	1.41	6.2	18	126	--	--	--
	9/29/99	2.13	<0.010	<0.250	<0.002	<0.020	<0.020	**4.23**	<0.005	**0.090**	<0.00020	<0.010	<0.010	<0.020	0.21	27.3	272	1.71	6.8	19	315	--	--	--
	9/15/00	6.59	<0.010	**0.323**	<0.002	<0.020	**0.026**	**9.90**	**0.011**	**0.309**	<0.00020	**0.017**	<0.010	<0.020	0.12	20.9	187	1.53	6.7	18	390	--	--	--
	3/16/00	11.7	<0.010	**0.356**	<0.002	<0.020	**0.035**	**15.70**	0.007	**0.334**	<0.00020	**0.016**	<0.010	**0.036**	0.208	17.8	193	2.63	NS	NS	NS	--	--	--
	3/23/01	0.828	<0.010	<0.250	<0.002	<0.020	<0.020	**1.02**	0.009	0.045	<0.00020	<0.010	<0.010	**0.023**	0.20	27.4	175	1.56	6.7	17	310	--	--	--
	10/4/01	3.64	<0.010	<0.250	<0.002	<0.020	<0.020	**6.02**	0.008	**0.221**	<0.00020	**0.013**	<0.010	<0.020	0.22	24.7	186	3.2	6.1	17	200	--	--	--
	3/28/02	1.72	<0.010	<0.250	<0.002	<0.020	<0.020	**2.82**	<0.005	**0.100**	NS	<0.010	<0.010	<0.020	0.40	38.5	203	1.45	6.7	14	470	--	--	--
	3/28/02	2.37	<0.010	<0.250	<0.002	<0.020	<0.020	**2.82**	<0.005	**0.100**	<0.00020	**0.017**	<0.010	<0.020	0.287	25.6	177	<1.0	NS	NS	238	--	--	--
duplicate	10/3/02	8.77	<0.010	**0.387**	<0.002	<0.020	**0.022**	**16.4**	<0.005	**0.450**	<0.00020	<0.010	<0.010	**0.035**	0.35	58.2	231	1.02	8.1	19	210	--	--	--
	3/25/03	15.3	<0.010	**0.362**	<0.002	<0.020	**0.026**	**23.8**	0.008	**0.622**	<0.00020	<0.010	<0.010	**0.045**	0.520	42.6	194	<1.0	6.2	19	210	--	--	--
	10/2/03	2.46	<0.010	**0.646**	<0.002	<0.020	<0.020	**4.08**	<0.005	**0.212**	<0.00020	<0.010	<0.010	<0.020	0.371	28.3	199	<1.0	6.7	17	243	--	--	--
	4/28/04	1.49	<0.010	<0.250	<0.002	<0.020	<0.020	**2.82**	<0.005	**0.080**	<0.00020	**0.013**	<0.010	<0.020	0.259	**1,350**	171	<1.0	NS	14.6	225	--	--	--
	10/26/04	2.37	<0.010	<0.250	<0.002	<0.020	<0.020	**3.49**	<0.005	**0.129**	<0.00020	**0.017**	<0.010	<0.020	0.287	25.6	177	<1.0	NS	NS	238	--	--	--
	4/27/05	0.874	<0.010	<0.250	<0.002	<0.020	<0.020	**1.58**	<0.005	**0.066**	<0.00020	**0.016**	<0.010	**0.040**	0.254	34.4	192	0.74	NS	NS	277	--	--	--
	10/20/05	3.50	<0.010	**0.252**	<0.002	<0.020	**0.107**	**4.23**	<0.005	**0.072**	<0.00020	**0.030**	<0.010	**0.071**	0.356	44.0	218	18	NS	NS	317	--	--	--
	10/19/06	0.553	<0.010	**0.277**	<0.002	<0.020	<0.020	**1.02**	<0.005	0.037	<0.00020	**0.048**	<0.010	<0.020	0.389	70.4	237	0.69	NS	NS	330	--	--	--
	4/27/07	<0.10	<0.010	**0.262**	<0.002	<0.020	<0.020	**0.708**	<0.005	<0.010	<0.00020		<0.010	<0.020	0.452	89.4	251	1.51	NS	NS	388	--	--	--
	11/19/07	0.124	<0.010	**0.263**	<0.002	<0.020	<0.020	0.156	<0.005	<0.010	<0.00020	**0.065**	<0.010	<0.020	0.190	53.0	293	0.86	NS	NS	403	--	--	--
duplicate	11/19/07	0.139	<0.010	**0.254**	<0.002	<0.020	<0.020	0.158	<0.005	0.012	<0.00020	**0.065**	<0.010	<0.020	0.203	64.2	278	0.88	NS	NS	402	--	--	--
	4/30/08	<0.100	<0.010	**0.261**	<0.002	<0.020	<0.020	0.148	<0.005	<0.010	<0.00020	**0.094**	<0.010	<0.020	0.553	91.0	331	0.76	NS	NS	470	--	--	--
	10/29/08	<0.100	<0.010	**0.274**	0.00033	**0.0106**	<0.010	0.216	0.0033	**0.124**	0.00010	**0.0955**	0.00515	<0.010	0.474	96.0	360	1.04	NS	NS	571	--	--	--
	4/30/09	0.442	<0.010	**0.368**	<0.001	<0.010	<0.010	**0.638**	0.0085	**0.0616**	<0.0002	**0.154**	<0.010	**0.0682**	0.535	199	399	0.94	NS	NS	603	--	--	--
duplicate	4/30/09	0.571	<0.010	**0.268**	<0.0010	<0.010	0.0025	**0.332**	0.0071	0.0308	<0.0002	**0.153**	<0.010	**0.0324**	0.510	203	389	1.07	NS	NS	617	--	--	--
	10/12/09	0.026	0.0027	**0.160**	<0.0010	0.0009	<0.010	<0.050	<0.005	0.016	0.00008	**0.150**	<0.005	<0.30	0.740	140	430	15.8	5.9	15.2	>99,000	8.6	121	2.82
	4/20/10	0.87	<0.010	**0.28**	<0.0010	<0.005	<0.010	**0.94**	<0.005	0.049	<0.0002	**0.10**	<0.005	<0.030	0.71	100	380	9.0	6.0	12.5	644	23.2	264	3.74
	10/11/10	<0.250	<0.005	**0.110**	<0.001	0.0013	<0.025	0.021	<0.005	0.0016	<0.0002	**0.077**	<0.005	**0.020**	0.79	89	310	4.0	5.9	18.0	497	6.7	256	1.39

TABLE A1
GROUND WATER ANALYTICAL RESULTS SUMMARY
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

Sample Location / ID	Date	Aluminum	Arsenic	Barium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc	Nitrate-nitrogen	Sulfate	Dissolved Solids	Total Organic Carbon	pH	Temperature (degrees Celsius)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
NC 2L Ground Water Standard		NE	0.010	0.700	0.002	0.010	1.0	0.300	0.015	0.050	0.001	0.020	0.020	1.00	10.0	250	500	NE	6.5 - 8.5	NE	NE	NE	NE	NE
Solid Waste Section Limit		NE	0.010	0.100	0.001	0.010	0.010	0.300	0.010	0.050	0.0002	0.010	0.010	0.010	10.0	250	NE	NE	NE	NE	NE	NE	NE	NE
NC 2B Surface Water Standard		0.087	0.050	1.0 [1]	0.002	0.050	0.007	1.0	0.025	0.200 [1]	0.000012	0.005	0.00006	0.05	10.0 [1]	250 [1]	500 [1]	NE	6.0 - 9.0	NE	NE	NE	NE	NE
W-3B (RHMW-003B)	10/26/04	2.33	<0.010	<0.250	<0.002	<0.020	<0.020	**3.17**	<0.005	**0.157**	<0.00020	<0.010	<0.010	**0.024**	<0.050	174	**545**	2.71	NS	NS	862	--	--	--
	4/27/05	0.203	<0.010	<0.250	**0.002**	<0.020	<0.020	**1.83**	**0.015**	**0.907**	<0.00020	**0.041**	<0.010	**0.036**	<0.050	**590**	**840**	10.1	NS	NS	1,180	--	--	--
	10/20/05	3.63	<0.010	<0.250	<0.002	<0.020	**0.029**	**4.29**	0.005	**0.068**	<0.00020	<0.010	<0.010	**0.075**	<0.050	146	**627**	30	NS	NS	550	--	--	--
	10/19/06	0.135	<0.010	<0.250	<0.002	<0.020	<0.020	**0.95**	0.005	**0.811**	<0.00020	<0.010	<0.010	**0.042**	<0.050	**318**	**750**	5.24	NS	NS	739	--	--	--
	4/27/07	0.238	<0.010	<0.250	<0.002	<0.020	<0.020	**0.901**	<0.005	**1.28**	<0.00020	<0.010	<0.010	<0.020	<0.050	**475**	**1,050**	2.57	NS	NS	1,240	--	--	--
	11/19/07	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**1.17**	<0.005	**1.27**	<0.00020	<0.010	<0.010	<0.020	<0.050	**582**	101	22.6	NS	NS	1,310	--	--	--
	4/30/08	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**0.505**	<0.005	**1.01**	<0.00020	<0.010	<0.010	<0.020	<0.050	**570**	**955**	1.18	NS	NS	1,270	--	--	--
	10/29/08	<0.100	<0.010	0.048	<0.001	0.0049	<0.010	**1.95**	<0.010	**0.946**	0.00007	<0.010	<0.010	**0.0105**	<0.05	**305**	**760**	0.83	NS	NS	1,080	--	--	--
	4/30/09	<0.100	<0.010	0.0426	<0.001	<0.010	<0.010	**0.49**	**0.0105**	**0.999**	<0.0002	0.0097	0.0015	0.0087	<0.050	185	**827**	5.56	NS	NS	1,150	--	--	--
	10/12/09	0.039	0.0036	0.0430	<0.001	0.0009	<0.010	**0.33**	<0.005	**0.880**	<0.0002	<0.020	<0.0050	<0.30	<0.20	250	**780**	16.1	7.2	14.6	>99,000	14.4	-42	3.40
	4/20/10	<0.10	<0.010	0.0490	<0.0010	<0.0050	<0.010	**0.50**	<0.005	**0.970**	<0.0002	<0.020	<0.0050	<0.30	<0.20	**280**	**770**	11.2	6.8	17.5	2,320	108	-51	0.23
	10/11/10	<0.250	0.005	0.0450	<0.005	<0.005	<0.025	**0.500**	<0.005	**0.980**	<0.0002	0.0099	<0.005	<0.050	0.14	**300**	**830**	<0.20	6.7	17.5	1,010	41.3	-25	0.00
PW-1 Open Borehole 21'-328'	4/29/88	0.152	<0.011	0.059	**0.008**	<0.016	**0.057**	0.06	<0.024	**0.314**	<0.00020	<0.005	<0.014	**0.576**	1.520	37	500	1.28	6.9	NS	NS	NS	NS	NS
	7/13/89	NS	<0.010	0.100	<0.008	NS	<0.020	NS	<0.100	NS	<0.00020	<0.005	<0.006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/6/90	NS	<0.010	0.090	<0.0010	<0.010	NS	NS	0.0099	NS	<0.00020	<0.005	<0.005	NS	NS	NS	NS	NS	6.8	NS	NS	NS	NS	NS
	10/23/91	0.130	<0.010	<0.080	<0.002		<0.020	**0.62**	<0.005	**1.23**	<0.00020	<0.005	<0.010	**3.31**	0.050	**460**	**850**	8	6.4	15.1	1,247	NS	NS	NS
	8/10/09	--	--	0.035	<0.0010	<0.005	--	**4.8**	<0.005	**1.8**	--	<0.020	--	--	--	**680**	--	--	7.0	15.3	2,860	32.1	13	0.0
Packer interval - 95'-115'	5/14/10	<0.100	<0.010	0.034	<0.0010	<0.005	<0.010	**2.9**	<0.005	**2.0**	<0.00020	<0.020	<0.005	**0.56**	--	**800**	**1,900**	--						
Packer interval - 180'-200'	5/14/10	<0.100	<0.010	0.044	<0.0010	<0.005	<0.010	**6.3**	0.0094	**2.4**	<0.00020	<0.020	<0.005	**21.0**	--	**940**	**2,100**	--						
Packer interval - 250'-270'	5/13/10	<0.100	<0.010	0.046	<0.0010	<0.005	<0.010	**6.8**	<0.005	**2.5**	<0.00020	<0.020	<0.005	**5.1**	--	**1,000**	**2,100**	--						
W-4 (Background) (damaged & replaced 2003 with W-6)	4/4/95	9.72	<0.010	<0.250	<0.002	<0.020	<0.020	**15.6**	0.007	**0.564**	<0.00020	<0.010	<0.010	**0.058**	1	7.88	231	136	6.1	19	234	--	--	--
	9/17/97	4.42	<0.010	<0.250	**0.002**	<0.020	<0.020	**10.0**	0.006	**0.406**	<0.00020	<0.010	<0.010	**0.190**	0.550	8.86	212	3.19	7.5	18	366	--	--	--
	3/27/98	3.41	<0.010	<0.250	<0.002	<0.020	<0.020	**6.25**	<0.005		<0.00020	<0.010	<0.010	**0.044**	<0.050	7.12	226	2.69	6.7	19.2	390	--	--	--
	9/30/98	0.219	<0.010	<0.250	<0.002	<0.020	<0.020	**1.61**	<0.005	**0.299**	<0.00020	<0.010	<0.010	<0.020	<0.050	6.42	200	7.26	5.9	21	322	--	--	--
	3/31/99	0.637	<0.010	<0.250	<0.002	<0.020	<0.020	**2.15**	<0.005	**0.285**	<0.00020	<0.010	<0.010	<0.020	<0.050	5.71	202	8.53	6.5	16	279	--	--	--
	9/29/99	0.127	<0.010	<0.250	<0.002	<0.020	<0.020	**1.44**	0.005	**0.271**	<0.00020	<0.010	<0.010	**0.024**	<0.050	<5.00	207	2.85	6.4	18	315	--	--	--
	3/16/00	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**1.47**	<0.005	**0.298**	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	191	6.05				--	--	--
	9/15/00	0.165	<0.010	<0.250	<0.002	<0.020	<0.020	**1.09**	<0.005	**0.252**	<0.00020	<0.010	<0.010	<0.020	0.08	5.30	241	15.5	6.2	17	310	--	--	--
	3/23/01	2.75	<0.010	<0.250	**0.004**	<0.020	<0.020	**9.91**	**0.016**	**0.447**	<0.00020	<0.010	<0.010	**0.028**	<0.050	6.53	219	5.99	6.4	16	240	--	--	--
	10/4/01	0.204	<0.010	<0.250	<0.002	<0.020	<0.020	**0.915**	0.007	**0.229**	<0.00020	<0.010	<0.010	<0.020	<0.05	<5.00	186	7.8	6.3	20	300	--	--	--
	3/28/02	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**1.46**	<0.005	**0.212**	NS	<0.010	<0.010	<0.020	<0.050	5.16	196	1.68	6.2	14	190	--	--	--
	10/3/02	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**1.13**	<0.005	**0.237**	<0.00020	<0.010	<0.010	**0.029**	<0.050	5.08	202	4.07	6.1	19	280	--	--	--
	3/25/03	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**0.976**	<0.005	**0.212**	<0.00020	<0.010	<0.010	<0.020	<0.050	6.05	185	1.61	6.2	16	260	--	--	--

TABLE A1
GROUND WATER ANALYTICAL RESULTS SUMMARY
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

Sample Location / ID	Date	Aluminum	Arsenic	Barium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc	Nitrate-nitrogen	Sulfate	Dissolved Solids	Total Organic Carbon	pH	Temperature (degrees Celsius)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
NC 2L Ground Water Standard		NE	0.010	0.700	0.002	0.010	1.0	0.300	0.015	0.050	0.001	0.020	0.020	1.00	10.0	250	500	NE	6.5 - 8.5	NE	NE	NE	NE	NE
Solid Waste Section Limit		NE	0.010	0.100	0.001	0.010	0.010	0.300	0.010	0.050	0.0002	0.010	0.010	0.010	10.0	250	NE	NE	NE	NE	NE	NE	NE	NE
NC 2B Surface Water Standard		0.087	0.050	1.0 [1]	0.002	0.050	0.007	1.0	0.025	0.200 [1]	0.000012	0.005	0.00006	0.05	10.0 [1]	250 [1]	500 [1]	NE	6.0 - 9.0	NE	NE	NE	NE	NE
W-6	10/2/03	1.92	<0.010	<0.250	<0.002	**0.268**	**0.024**	**3.22**	<0.005	**0.154**	<0.00020	<0.010	<0.010	**0.44**	0.207	95	466	34	7.3	19	661	--	--	--
	4/28/04	1.16	<0.010	<0.250	<0.002	**0.030**	**0.026**	**0.917**	0.007	0.037	<0.00020	<0.010	<0.010	**0.149**	0.137	**370**	**692**	139	NS	14.7	937	--	--	--
	10/26/04	0.790	<0.010	<0.250	<0.002	**0.089**	**0.032**	0.259	<0.005	0.012	<0.00020	<0.010	<0.010	**0.087**	0.096	116	**630**	79.2	NS	NS	917	--	--	--
	4/27/05	0.389	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	0.005	<0.010	<0.00020	<0.010	<0.010	**0.056**	<0.050	87.5	**565**	13.2	NS	NS	932	--	--	--
(Background)	10/20/05	<0.100	<0.010	<0.250	<0.002	<0.020	**0.040**	**0.3557**	<0.005	<0.010	<0.00020	<0.010	<0.010	**0.060**	0.064	35.4	**553**	27	NS	NS	939	--	--	--
Replaced W-4 9/2003	10/19/06	0.529	<0.010	<0.250	<0.002	<0.020	<0.020	0.077	<0.005	0.012	<0.00020	<0.010	<0.010	**0.066**	<0.050	46.4	471	29.3	NS	NS	655	--	--	--
	4/27/07	2.66	<0.010	<0.250	<0.002	**0.029**	<0.020	**2.79**	<0.005	**0.106**	<0.00020	<0.010	<0.010	**0.168**	<0.050	29.5	442	8.84	NS	NS	776	--	--	--
	11/19/07	0.627	<0.010	<0.250	<0.002	<0.020	<0.020	**0.711**	<0.005	0.024	<0.00020	<0.010	<0.010	**0.038**	<0.050	11.2	431	8.98	NS	NS	694	--	--	--
	4/30/08	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	**0.037**	<0.050	<10.0	392	5.61	NS	NS	615	--	--	--
	10/29/08	0.235	<0.010	0.0358	0.00041	0.0068	<0.010	0.268	<0.010	0.0093	<0.00020	<0.010	<0.010	**0.067**	<0.050	<10.0	393	4.13	NS	NS	724	--	--	--
duplicate	10/29/08	0.222	<0.010	**0.293**	0.001	<0.010	0.0027	**0.460**	0.0049	**0.0846**	0.00016	**0.101**	<0.010	<0.010	0.488	98.8	384	0.860	NS	NS	574	--	--	--
	4/30/09	0.139	<0.010	0.0366	<0.001	0.007	<0.010	0.0331	0.0029	0.0015	<0.0002	0.0081	<0.010	**0.0332**	<0.050	10.5	463	10.3	NS	NS	807	--	--	--
	10/12/09	0.140	0.0023	0.028	<0.001	0.0055	0.0043	0.044	<0.0050	0.0017	<0.0002	**0.046**	<0.005	<0.300	<0.200	17.0	380	11.1	10.6	18.9	1,020	33.1	-243	0.16
	4/20/10	1.7	<0.010	0.059	<0.001	**0.400**	**0.014**	**3.2**	<0.005	**0.087**	<0.0002	<0.020	<0.005	**0.069**	<0.20	16.0	450	9.1	10.7	18.9	930	209	-227	0.03
	10/11/10	0.320	<0.005	0.037	<0.001	**0.420**	**0.019**	**2.8**	<0.005	**0.056**	<0.0002	<0.005	<0.005	**0.063**	0.12	13.0	410	3.9	10.6	17.7	816	36	-250	0.00

All concentrations in milligrams per liter.
NS - Not sampled
NE - Not established
[1] - No freshwater aquatic life standard established. Water Supply criteria presented.
Bold indicates exceedance of Solid Waste Section Limits (SWSL)
Gray background indicates exceedance of NC Ground Water Standard

TABLE A2
SURFACE WATER ANALYTICAL RESULTS SUMMARY
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

Sample Location / ID	Date	Aluminum	Arsenic	Barium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc	Nitrate-nitrogen	Sulfate	Dissolved Solids	Total Organic Carbon	pH	Temperature (degrees Celsius)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
NC 2L Ground Water Standard		NE	0.010	0.700	0.002	0.010	1.0	0.300	0.015	0.050	0.001	0.020	0.020	1.00	10.0	250	500	NE	6.5 - 8.5	NE	NE	NE	NE	NE
Solid Waste Section Limit		NE	0.010	0.100	0.001	0.010	0.010	0.300	0.010	0.050	0.0002	0.010	0.01	0.01	10.0	250	NE	NE	NE	NE	NE	NE	NE	NE
NC 2B Surface Water Standard		0.087	0.050	1.0 [1]	0.002	0.050	0.007	1.0	0.025	0.200 [1]	0.000012	0.005	0.00006	0.05	10.0 [1]	250 [1]	500 [1]	NE	6.0 - 9.0	NE	NE	NE	NE	>5.0
SS-01 (RHSS-001) Surface Water - Upstream	4/29/88	<0.152	<0.010	0.118	**0.008**	<0.016	<0.019	0.086	<0.024	<0.014	<0.00020	<0.005	<0.014	0.015	0.22	64	220	2.81	6.8	NS	NS	--	--	--
	7/13/89	NS	<0.010	0.100	<0.002	<0.020	NS	NS	<0.005	NS	<0.00020	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--
	9/6/90	NS	<0.010	0.064	<0.001	NS	NS	NS	<0.0025	NS	<0.00020	<0.005	<0.005	NS	NS	NS	NS	NS	7.9	NS	NS	--	--	--
	9/21/90	**0.14**	<0.010	<0.080	**0.0048**	<0.040	<0.020	0.2	<0.005	<0.020	<0.00020	<0.005	<0.010	<0.020	0.52	40	352	12	7.2	11.6	490	--	--	--
	10/23/91	**0.109**	<0.010	<0.080	<0.002	<0.020	<0.020	<0.100	<0.005	<0.020	<0.00020	<0.005	<0.010	<0.020	0.15	108	248	12	7.9	17.2	381	--	--	--
	3/25/92	**4.15**	<0.010	<0.080	**0.0034**	<0.020	<0.020	**5.0**	0.0158	0.064	<0.00020	<0.005	<0.010	<0.020	0.25	9.4	185	14	5.8	11.3	126	--	--	--
	9/29/92	<0.100	<0.010	<0.100	<0.002	<0.040	<0.020	0.16	<0.005	0.085	<0.00020	<0.005	<0.010	<0.020	0.19	84	241	2.0	5.7	13.8	356	--	--	--
	3/31/93	<0.200	<0.010	<0.100	<0.002	<0.020	<0.020	0.400	<0.005	0.077	<0.00020	<0.005	<0.010	0.029	1.34	70.4	127	2.0	5.9	13	207	--	--	--
	9/17/93	**0.24**	<0.010	<0.125	<0.002	<0.020	<0.020	0.598	<0.005	0.028	<0.00020	<0.005	<0.010	<0.020	0.45	77.4	251	3.0	7.1	20.9	360	--	--	--
	3/30/94	**0.220**	<0.010	<0.120	<0.002	<0.020	<0.020	0.873	<0.005	0.03	<0.00020	<0.005	<0.010	<0.020	0.25	30.6	108	5	5.9	14	380	--	--	--
	9/30/94	**1.300**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.69**	0.006	0.084	<0.00020	<0.005	<0.010	<0.020	0.43	64.8	255	30.0	7.1	19.1	332	--	--	--
	3/31/95	**3.580**	<0.010	<0.250	<0.002	<0.020	<0.020	**2.44**	<0.005	0.106	<0.00020	<0.005	<0.010	**0.246**	0.19	48.9	211	<5.0	7.8	13.9	290	--	--	--
	9/29/95	**0.2**	<0.010	<0.250	<0.002	<0.020	<0.020	0.358	0.007	0.038	<0.00020	<0.005	<0.010	<0.020	0.5	70.0	264	3.74	5.2	13.9	458	--	--	--
	3/30/96	**0.279**	<0.010	<0.250	<0.002	<0.020	<0.020	0.547	<0.005	0.014	<0.00020	<0.005	<0.010	<0.020	0.185	31.3	129	1.79	6.7	11	193	--	--	--
	9/27/96	**0.125**	<0.010	<0.250	<0.002	<0.020	<0.020	0.3	0.005	0.021	<0.00020	<0.005	<0.010	**0.095**	0.29	56.1	225	2.36	7.7	19	336	--	--	--
	3/29/97	**0.307**	<0.010	<0.250	<0.002	<0.020	<0.020	0.552	<0.005	0.016	<0.00020	<0.005	<0.010	0.013	0.225	30.0	138	3.04	7.6	16	94	--	--	--
	9/17/97	**0.476**	<0.010	<0.250	<0.002	<0.020	<0.020	0.835	<0.005	0.040	<0.00020	<0.005	<0.010	**0.169**	0.625	47.4	224	1.67	7.9	19	319	--	--	--
	3/27/98	**0.190**	<0.010	<0.250	<0.002	<0.020	<0.020	0.685	<0.005	0.012	<0.00020	<0.010	<0.010	**0.061**	0.680	38.7	163	5.23	7.6	18.6	473	--	--	--
	9/30/98	**0.126**	<0.010	<0.250	<0.002	<0.020	<0.020	0.54	0.006	0.033	<0.00020	<0.010	<0.010	<0.020	0.300	28.0	177	4.09	7.2	18	322	--	--	--
	3/31/99	**0.239**	<0.010	<0.250	<0.002	<0.020	<0.020	0.332	<0.005	0.044	<0.00020	<0.010	<0.010	<0.020	0.12	63.2	191	2.49	7.1	16	247	--	--	--
	9/29/99	**1.53**	<0.010	<0.250	<0.002	<0.020	<0.020	**3.33**	0.005	0.088	<0.00020	<0.010	<0.010	<0.020	0.09	23.2	143	8.81	7.8	16	308	--	--	--
	9/15/00	**0.327**	<0.010	<0.250	<0.002	<0.020	<0.020	0.166	<0.005	0.038	<0.00020	<0.010	<0.010	<0.020	0.16	26.1	157	5.08	7.3	19	410	--	--	--
	3/16/00	**0.117**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.94**	<0.005	**0.922**	<0.00020	<0.010	<0.010	<0.020	0.199	50.9	202	3.78				--	--	--
	3/23/01	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	0.158	<0.005	0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	26.1	113	2.81	6.9	16	150	--	--	--
	10/4/01	**0.116**	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	0.029	<0.00020	<0.010	<0.010	<0.020	0.3	99.0	343	5.30	7.4	19	440	--	--	--
	3/28/02	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	0.201	<0.005	0.010	NS	<0.010	<0.010	0.027	0.32	41.9	177	3.18	7.0	11	400	--	--	--
	10/3/02	**0.317**	<0.010	<0.250	<0.002	<0.020	<0.020	0.767	<0.005	0.052	<0.00020	<0.010	<0.010	<0.020	0.75	73.3	300	3.07		19	330	--	--	--
	3/25/03	**0.673**	<0.010	<0.250	<0.002	<0.020	<0.020	0.607	<0.005	0.024	<0.00020	<0.010	<0.010	<0.020	0.115	31.6	119	2.08	6.9	18	440	--	--	--
	10/2/03	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	0.705	<0.005	0.072	<0.00020	<0.010	<0.010	<0.020	0.446	29.4	181	2.38	6.3	15	249	--	--	--
	4/28/04	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	0.179	<0.005	0.080	<0.00020	<0.010	<0.010	<0.020	0.374	70.4	176	2.06	NS	11.7	281	--	--	--
	10/26/04	**0.145**	<0.010	<0.250	<0.002	<0.020	<0.020	0.132	<0.005	0.036	<0.00020	<0.010	<0.010	<0.020	0.209	58.8	217	2.62	NS	NS	397	--	--	--
	4/27/05	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	0.105	<0.005	0.011	<0.00020	<0.010	<0.010	<0.020	0.149	41.4	174	2.15	NS	NS	294	--	--	--
	10/20/05	**0.347**	<0.010	<0.250	<0.002	<0.020	**0.084**	0.453	<0.005	0.015	<0.00020	<0.010	<0.010	**0.055**	0.288	47.6	213	9.50	NS	NS	232	--	--	--
	10/19/06	**0.937**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.63**	<0.005	0.130	<0.00020	<0.010	<0.010	0.022	0.226	59.2	168	2.97	NS	NS	423	--	--	--
	4/27/07	**0.446**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.24**	<0.005	0.018	<0.00020	<0.010	<0.010	<0.020	0.188	27.4	128	3.60	NS	NS	209	--	--	--
	11/19/07	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	0.104	<0.005	0.011	<0.00020	<0.010	<0.010	<0.020	0.117	61.5	243	3.54	NS	NS	371	--	--	--
	4/30/08	**0.170**	<0.010	<0.250	<0.002	<0.020	<0.020	0.242	<0.005	0.021	<0.00020	<0.010	<0.010	<0.020	0.238	56.3	171	2.69	NS	NS	260	--	--	--
	10/29/08	<0.100	<0.010	0.0564	0.0003	<0.010	0.003	0.0206	<0.010	0.006	**0.00005**	<0.010	<0.010	**0.051**	0.229	76.3	254	2.87	NS	NS	392	--	--	--
	4/30/09	<0.100	<0.010	0.0648	<0.001	<0.010	<0.010	0.0778	0.0054	0.0083	<0.0002	**0.0099**	<0.010	0.0159	0.302	52.3	211	4.47	NS	NS	325	--	--	--
	8/26/09	--	--	0.072	<0.001	<0.005	--	0.16	<0.005	0.014	--	<0.020	--	--	--	45	--	--	8.1	22.0	1,490	10.0	94	9.1
	10/12/09	0.089	0.0027	0.063	<0.001	0.0008	0.0011	0.086	<0.005	0.0073	<0.0002	<0.020	<0.005	<0.30	0.37	49	240	8.6	7.8	13.1	2,380	8.9	160	12.7
	4/19/10	**0.19**	<0.010	0.064	<0.001	<0.005	<0.010	0.24	<0.005	0.012	<0.0002	<0.020	<0.005	<0.030	0.40	33	190	4.90	8.1	12.0	557	63.1	199	10.7
	10/11/10	0.052	0.0011	0.071	<0.001	0.0016	<0.025	0.16	<0.005	0.016	<0.0002	<0.005	<0.005	**0.036**	0.64	40	240	3.3	7.8	16.5	455	8.0	107	12.8

TABLE A2
SURFACE WATER ANALYTICAL RESULTS SUMMARY
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

Sample Location / ID	Date	Aluminum	Arsenic	Barium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc	Nitrate-nitrogen	Sulfate	Dissolved Solids	Total Organic Carbon	pH	Temperature (degrees Celsius)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
NC 2L Ground Water Standard		NE	0.010	0.700	0.002	0.010	1.0	0.300	0.015	0.050	0.001	0.020	0.020	1.00	10.0	250	500	NE	6.5 - 8.5	NE	NE	NE	NE	NE
Solid Waste Section Limit		NE	0.010	0.100	0.001	0.010	0.010	0.300	0.010	0.050	0.0002	0.010	0.01	0.01	10.0	250	NE	NE	NE	NE	NE	NE	NE	NE
NC 2B Surface Water Standard		0.087	0.050	1.0 [1]	0.002	0.050	0.007	1.0	0.025	0.200 [1]	0.000012	0.005	0.00006	0.05	10.0 [1]	250 [1]	500 [1]	NE	6.0 - 9.0	NE	NE	NE	NE	>5.0
SS-02	9/21/90	**0.130**	<0.010	0.094	**0.0046**	<0.020	<0.020	0.1	<0.005		<0.00020	<0.010	<0.010	<0.020	1.14	47	141	15.0	7.5	14.6	607	--	--	--
	10/23/91		<0.010	0.17	<0.002	<0.020	<0.020	0.82	<0.005	**0.711**	<0.00020	<0.010	<0.010	**0.08**	1.02	**490**	**806**	10.0	7.8	18	1,280	--	--	--
	3/26/92	**7.650**	<0.010	<0.250	**0.0021**	<0.020	<0.020	**8.07**	0.0129	0.130	<0.00020	<0.010	<0.010	<0.020	0.25	13	149	12.0	6.0	11.5	111	--	--	--
	9/30/92	**0.330**	<0.010	<0.250	<0.002	<0.020	<0.020		<0.005		<0.00020	**0.0073**	<0.010	<0.020	0.55	183	474	3.0	6.1	15.1	778	--	--	--
RHSS-002	3/31/93	**0.208**	<0.010	<0.250	<0.002	<0.020	<0.020	0.675	<0.005	**0.327**	<0.00020	<0.010	<0.010	<0.020	0.35	70	185	4.0	5.8	14.1	341	--	--	--
Surface Water -	9/17/93	**0.470**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.27**	<0.005	**0.722**	<0.00020	<0.010	<0.010	<0.020	2.3	154	**523**	4.0	7.5	22.2	754	--	--	--
Downstream	3/30/94	**0.220**	<0.010	<0.250	<0.002	0.032	<0.020	**1.12**	<0.005	0.117	<0.00020	<0.010	<0.010	**0.165**	0.32	40	143		6.0	14.4	692	--	--	--
	9/30/94	**0.120**	<0.010	<0.250	<0.002	<0.020	**0.028**	0.47	<0.005	**0.356**	<0.00020	<0.010	<0.010	0.024	0.325	135	397	37.9	7.4	18.6	573	--	--	--
	3/31/95	**0.165**	<0.010	<0.250	<0.002	<0.020	<0.020	0.526	<0.005	**0.332**	<0.00020	<0.010	<0.010	0.041	0.75	102	342		7.9	14.5	496	--	--	--
	9/29/95	**0.406**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.02**	0.006	**0.598**	<0.00020	<0.010	<0.010	<0.020	1.03	155	**505**	2.68	5.6	13.5	1,095	--	--	--
	3/30/96	**0.426**	<0.010	<0.250	<0.002	<0.020	<0.020	0.787	<0.005	**0.250**	<0.00020	<0.010	<0.010	<0.020	0.19	31	198	2.99	6.5	12	282	--	--	--
	9/27/96	0.061	<0.010	<0.250	<0.002	<0.020	<0.020	0.227	0.01	**0.262**	<0.00020	<0.010	<0.010	0.047	0.75	147	409	3.19	7.6	20	613	--	--	--
	3/29/97	**0.209**	<0.010	<0.250	<0.002	<0.020	<0.020	0.644	<0.005	**0.246**	<0.00020	<0.010	<0.010	0.01	0.45	73	255	2.47	7.8	16	224	--	--	--
	9/17/97	**0.165**	<0.010	<0.250	<0.002	<0.020	<0.020	0.428	0.006	**0.333**	<0.00020	<0.005	<0.010	**0.153**	2.21	160	**562**	2.43	7.8	18	826	--	--	--
	3/27/98	**0.220**	<0.010	<0.250	<0.002	<0.020	<0.020	0.960	<0.005	**0.363**	<0.00020	<0.010	<0.010	0.032	0.550	94	324	3.96	7.8	17.5	724	--	--	--
	9/30/98	**0.100**	<0.010	<0.250	<0.002	<0.020	<0.020	0.595	<0.005	**0.351**	<0.00020	<0.010	<0.010	<0.020	1.55	89	444	6.85	7.4	19	368	--	--	--
	3/31/99	**0.129**	<0.010	<0.250	<0.002	<0.020	<0.020	0.947	<0.005	**0.587**	<0.00020	<0.010	<0.010	<0.020	1.55	204	420	3.26	7.4	17	340	--	--	--
	9/29/99	**1.380**	<0.010	<0.250	<0.002	<0.020	<0.020	**3.03**	<0.005	0.147	<0.00020	<0.010	<0.010	0.021	0.16	46	173	8.10	7.6	17	623	--	--	--
	9/15/00	**0.283**	<0.010	<0.250	<0.002	<0.020	<0.020	0.225	<0.005	**0.416**	<0.00020	<0.010	<0.010	<0.020	1.24	170	439	6.58	7.4	20	640	--	--	--
	3/16/00	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	0.96	<0.005	**0.464**	<0.00020	<0.010	<0.010	<0.020	1.18	175	500	3.75				--	--	--
	3/23/01	**0.108**	<0.010	<0.250	<0.002	<0.020	<0.020	0.26	0.007	0.135	<0.00020	<0.010	<0.010	0.034	0.103	72	224	3.08	6.6	16	170	--	--	--
	10/4/01	**0.166**	<0.010	<0.250	<0.002	<0.020	<0.020	0.746	0.008	**0.91**	<0.00020	<0.010	<0.010	<0.020	6.32	**421**	**1,250**	27	7.2	19	680	--	--	--
	3/28/02	**0.121**	<0.010	<0.250	<0.002	<0.020	<0.020	0.502	<0.005	**0.206**	NS	<0.010	<0.010	<0.020	0.32	127	405	2.97	7.4	11	510	--	--	--
	10/3/02	**0.220**	<0.010	<0.250	<0.002	<0.020	<0.020	0.494	<0.005	**0.549**	<0.00020	<0.010	<0.010	<0.020	1.11	**266**	**517**	4.28	5.8	18	130	--	--	--
	3/25/03	**1.57**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.28**	0.006	**0.264**	<0.00020	<0.010	<0.010	0.024	0.162	90	234	1.91	6.0	18	1,260	--	--	--
duplicate	3/25/03	**1.75**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.32**	<0.005	**0.265**	<0.00020	<0.010	<0.010	0.024	0.194	95	235	2.00	6.0	18	1,260	--	--	--
	10/2/03	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**1.01**	<0.005	**0.546**	<0.00020	<0.010	<0.010	<0.020	0.61	115	395	2.50	6.5	14	556	--	--	--
	4/28/04	**0.109**	<0.010	<0.250	<0.002	<0.020	<0.020	0.40	<0.005	**0.417**	<0.00020	<0.010	<0.010	<0.020	0.608	220	394	2.26	NS	12.7	623	--	--	--
	10/26/04	**0.216**	<0.010	<0.250	<0.002	<0.020	<0.020	0.839	<0.005	**0.582**	<0.00020	<0.010	<0.010	<0.020	2.00	**276**	**554**	3.06	NS	NS	807	--	--	--
	4/27/05	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	0.356	<0.005	**0.272**	<0.00020	<0.010	<0.010	<0.020	0.648	38	460	2.48	NS	NS	737	--	--	--
	10/20/05	<0.100	<0.010	<0.250	<0.002	<0.020	**0.072**	**1.12**	<0.005	**0.33**	<0.00020	<0.010	<0.010	0.048	0.546	240	**571**	3.4	NS	NS	419	--	--	--
	10/19/06	**0.530**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.06**	<0.005	**0.534**	<0.00020	<0.010	<0.010	0.032	0.299	204	422	3.49	NS	NS	550	--	--	--
	4/27/07	**0.389**	<0.010	<0.250	<0.002	<0.020	<0.020	0.811	<0.005	**0.488**	<0.00020	<0.010	<0.010	<0.020	0.333	**439**	303	4.42	NS	NS	511	--	--	--
	11/19/07	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	0.136	<0.005	**0.308**	<0.00020	<0.010	<0.010	0.023	0.258	**300**	**647**	3.54	NS	NS	908	--	--	--
	4/30/08	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	0.278	<0.005	**0.254**	<0.00020	<0.010	<0.010	0.046	0.285	159	371	2.74	NS	NS	569	--	--	--
	10/29/08	<0.100	<0.010	0.0563	0.00024	<0.010	<0.010	0.128	<0.010	**0.318**	<0.00020	<0.010	<0.010	0.0142	0.407	**342**	**708**	3.43	NS	NS	1,070	--	--	--
	4/30/09	<0.100	<0.010	0.0608	<0.001	<0.010	<0.010	0.0894	<0.010	**0.222**	<0.0002	<0.010	<0.010	0.0192	0.499	201	**518**	3.39	NS	NS	821	--	--	--
	8/26/09	--	--	0.071	<0.001	<0.005	--	0.11	<0.005	**0.220**	--	<0.020	--	--	--	**310**	--	--	7.8	21.6	2,120	6.4	101	6.4
	10/12/09	0.043	0.0051	0.06	<0.001	0.0008	<0.010	0.045	<0.005	0.048	<0.0002	<0.020	<0.005	<0.30	0.32	210	**510**	10.3	7.8	13.3	3,360	8.7	123	13.0
	4/19/10	<0.10	<0.010	0.064	<0.001	<0.005	<0.010	0.26	<0.005	**0.26**	<0.0002	<0.020	<0.005	<0.030	0.42	150	390	6.3	7.6	10.6	632	60.1	181	10.2
	10/11/10	<0.250	0.0011	0.069	<0.001	0.0014	<0.025	0.27	<0.005	**0.310**	<0.0002	**0.0089**	<0.005	0.0064	1.2	250	**660**	4.7	7.6	15.2	999	0.0	113	8.3

TABLE A2
SURFACE WATER ANALYTICAL RESULTS SUMMARY
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

Sample Location / ID	Date	Aluminum	Arsenic	Barium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc	Nitrate-nitrogen	Sulfate	Dissolved Solids	Total Organic Carbon	pH	Temperature (degrees Celsius)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
NC 2L Ground Water Standard		NE	0.010	0.700	0.002	0.010	1.0	0.300	0.015	0.050	0.001	0.020	0.020	1.00	10.0	250	500	NE	6.5 - 8.5	NE	NE	NE	NE	NE
Solid Waste Section Limit		NE	0.010	0.100	0.001	0.010	0.010	0.300	0.010	0.050	0.0002	0.010	0.01	0.01	10.0	250	NE	NE	NE	NE	NE	NE	NE	NE
NC 2B Surface Water Standard		0.087	0.050	1.0 [1]	0.002	0.050	0.007	1.0	0.025	0.200 [1]	0.000012	0.005	0.00006	0.05	10.0 [1]	250 [1]	500 [1]	NE	6.0 - 9.0	NE	NE	NE	NE	>5.0
SS-10	8/11/09	--	--	0.065	<0.001	<0.005	--	**12**	<0.005	**0.40**	--	<0.020	--	--	--	11	--	--	7.1	20.6	1,890	42.9	-40	3.4
SS-15	8/11/09	--	--	0.052	<0.001	<0.005	--	0.90	<0.005	0.035	--	<0.020	--	--	--	7.5	--	--	7.8	20.7	1,840	52.5	114	9.7
SS-20	8/11/09	--	--	0.058	<0.001	<0.005	--	0.80	<0.005	0.046	--	<0.020	--	--	--	8.2	--	--	8.4	23.9	1,112	27.3	58	7.6
SS-25	8/11/09	--	--	0.060	<0.001	<0.005	--	0.59	<0.005	0.053	--	<0.020	--	--	--	28	--	--	8.4	22.1	1,830	32.1	75	7.6
SS-30	8/11/09	--	--	0.072	<0.001	<0.005	--	0.15	<0.005	0.025	--	<0.020	--	--	--	95	--	--	8.5	22.8	5,250	21.7	57	8.1
SS-40	8/26/09	--	--	0.091	<0.001	<0.005	--	0.08	<0.005	0.022	--	<0.020	--	--	--	**300**	--	--	7.8	21.3	2,050	7.1	89	7.9
SS-50	8/11/09	--	--	0.029	<0.001	<0.005	--	**2.90**	<0.005	0.180	--	<0.020	--	--	--	5.6	--	--	7.8	25.4	1,180	32.0	-21	8.5
SS-60	8/26/09	--	--	0.14	<0.001	<0.005	--	0.28	<0.005	**0.980**	--	<0.020	--	--	--	**350**	--	--	7.1	20.3	4,040	65.9	10	6.7
SS-70	8/26/09	--	--	0.12	<0.001	<0.005	--	**1.10**	<0.005	**0.250**	--	<0.020	--	--	--	65	--	--	6.9	20.6	2,520	6.8	91	6.4
SS-80	8/26/09	--	--	0.12	<0.001	<0.005	--	0.25	<0.005	0.025	--	<0.020	--	--	--	82	--	--	7.1	20.6	5,190	5.8	100	8.3
RETENTION POND MW-001	9/30/94	**2.58**	0.016	<0.250	<0.002	<0.020	**0.044**	**23.2**	<0.005	**6.49**	<0.00020	<0.010	<0.010	0.035	2.95	**787**	**2,230**	258.00	7.4	22.5	3,140	--	--	--
	3/31/95	**0.66**	<0.010	<0.250	<0.002	<0.020	<0.020	**5.15**	<0.005	**2.36**	<0.00020	<0.010	<0.010	**0.155**	8.88	**794**	**2,540**	459	7.8	17.5	3,680	--	--	--
	9/29/95	**0.156**	<0.010	<0.250	<0.002	<0.020	<0.020	**5.24**	0.008	**4.88**	<0.00020	<0.010	<0.010	<0.020	1.03	**801**	**2,660**	4.95	5.4	14.8	4,220	--	--	--
	3/30/96	**0.112**	<0.010	<0.250	0.002	<0.020	<0.020	**5.02**	<0.005	**5.4**	<0.00020	<0.010	<0.010	<0.020	2.08	--	**2,340**	6.65	7.2	15	3,050	--	--	--
	9/27/96	**0.167**	<0.010	<0.250	<0.002	<0.020	<0.020	--	0.009	**4.53**	<0.00020	<0.010	<0.010	**0.066**	1.70	**1,010**	**2,700**	4.04	7.3	23	1,510	--	--	--
Water from Sediment Basin at W-1	3/29/97	**0.097**	<0.010	<0.250	<0.002	<0.020	<0.020	**6.18**	<0.005	**5.46**	<0.00020	<0.010	<0.010	0.010	1.29	**1,050**	**2,460**	4.31	7.5	22	1,770	--	--	--
	3/17/97	**0.164**	<0.010	<0.250	<0.002	<0.020	<0.020	**3.66**	<0.005	**5.40**	<0.00020	<0.010	<0.010	**0.055**	0.608	**1,160**	**3,000**	6.43	7.2	22	3,660	--	--	--
duplicate	3/27/98	<0.100	0.010	<0.250	<0.002	<0.020	<0.020	**11.4**	<0.005	**5.90**	<0.00020	<0.010	<0.010	0.021	0.290	**942**	**2,780**	4.43	7.2	23.4	1,419	--	--	--
	9/30/98	**0.274**	<0.010	<0.250	<0.002	<0.020	<0.020		<0.005	**4.94**	<0.00020	<0.010	<0.010	<0.020		**666**	**2,700**	15.4	7.6	20	1,200	--	--	--
	3/31/99	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**7.55**	0.006	**4.45**	<0.00020	<0.010	<0.010	<0.020	0.600	**1,560**	**2,930**	7.92	7.3	18	1,021	--	--	--
	9/29/99	**0.877**	<0.010	<0.250	<0.002	<0.020	<0.020	**6.77**	<0.005	**0.862**	<0.00020	<0.010	<0.010	**0.08**	3.36	**330**	**715**	13.30	7.1	18	2,930	--	--	--
	3/16/00	**0.41**	<0.010	<0.250	<0.002	<0.020	<0.020	**72**	<0.005	**4.54**	<0.00020	<0.010	<0.010	<0.020	1.09	**948**	**2,610**	10.60				--	--	--
	9/15/00	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**2.02**	<0.005	**3.48**	<0.00020	<0.010	<0.010	<0.020	6.27	**894**	**2,470**	5.21	6.6	19	980	--	--	--
	3/23/01	**0.144**	<0.010	<0.250	**0.004**	<0.020	<0.020	**35.9**	0.012	**4.07**	<0.00020	<0.010	<0.010	<0.020	0.48	**926**	**2,630**	5.85	6.5	17	480	--	--	--
duplicate	3/23/01	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**6.9**	0.007	**4.19**	<0.00020	<0.010	<0.010	<0.020	0.35	**939**	**2,640**	7.52	6.5	17	480	--	--	--
	10/4/01	**0.204**	<0.010	<0.250	<0.002	<0.020	<0.020	0.915	0.007	**0.229**	<0.00020	<0.010	<0.010	<0.020	<0.05	<5.00	186	7.8	6.3	20	300	--	--	--
	3/28/02	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**5.1**	<0.005	**3.66**	NS	<0.010	<0.010	<0.020	0.28	**1,000**	**3,010**	3.77	6.4	12	1,080	--	--	--
	10/3/02	<0.100	<0.010	<0.250	0.002	<0.020	**0.027**	**1.52**	<0.005	**3.34**	<0.00020	<0.010	<0.010	<0.020	1.82	**1,030**	**2,940**	4.94	6.7	18	370	--	--	--
duplicate	10/3/02	<0.100	<0.010	<0.250	0.002	<0.020	**0.024**	**1.58**	<0.005	**3.33**	<0.00020	<0.010	<0.010	<0.020	1.78	**1,040**	**2,860**	5.12	5.7	18	370	--	--	--
	3/25/03	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**6.69**	0.006	**3.56**	<0.00020	<0.010	<0.010	0.025	0.406	**846**	**2,530**	3.72	6.6	17	330	--	--	--
	10/2/03	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**11.3**	0.007	**3.88**	<0.00020	<0.010	<0.010	0.042	0.174	**916**	**2,710**	3.92	5.6	15	3,050	--	--	--
duplicate	10/2/03	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**11.4**	0.006	**3.88**	<0.00020	<0.010	<0.010	<0.020	<0.050	**958**	**2,690**	3.9	5.6	15	3,170	--	--	--
	4/28/04	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**11.1**	0.006	**6.08**	<0.00020	<0.010	<0.010	<0.020	<0.050	**1,460**	**2550**	5.36	NS	17.3	2860	--	--	--
	10/26/04	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**5.25**	<0.005	**4.55**	<0.00020	<0.010	<0.010	<0.020	0.287	**1,190**	**2,950**	3.64	NS	NS	3,480	--	--	--
	4/27/05	<0.100	<0.010	<0.250	0.002	<0.020	<0.020	**7.63**	0.007	**5.73**	<0.00020	<0.010	<0.010	<0.020	<0.050	**1,100**	**2,550**	4.71	NS	NS	2,870	--	--	--
	10/20/05	**1.63**	<0.010	<0.250	**0.004**	<0.020	**0.028**	**103**	0.006	**4.88**	<0.00020	<0.010	<0.010	**0.057**	0.428	**403**	**3,010**	89	NS	NS	529	--	--	--
	10/19/06	**0.172**	<0.010	<0.250	0.002	<0.020	**0.347**	**27.4**	<0.005	**3.60**	<0.00020	<0.010	<0.010	0.027	0.139	**1,320**	**2,850**	4.37	NS	NS	2,000	--	--	--
	4/27/07	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**5.36**	<0.005	**2.38**	<0.00020	<0.010	<0.010	<0.020	0.287	**1,380**	**2,750**	4.01	NS	NS	4,830	--	--	--
	11/19/07	<0.100	0.042	<0.250	0.002	<0.020	<0.020	**48.2**	<0.005	**3.28**	<0.00020	<0.010	<0.010	0.025	<0.050	**1,560**	**3,060**	3.82	NS	NS	3,300	--	--	--
	4/30/08	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**9.68**	<0.005	**2.99**	<0.00020	<0.010	<0.010	0.022	0.155	**1,100**	**2,910**	3.38	NS	NS	4,880	--	--	--
	10/29/08	<0.100	<0.010	0.0687	<0.001	<0.010	<0.010	**4.84**	0.0035	**2.88**	<0.00020	<0.010	<0.010	<0.010	<0.050	188	**3,060**	3.510	NS	NS	4,200	--	--	--
	4/30/09	<0.100	<0.010	0.0774	0.0018	<0.010	0.0036	**4.08**	0.0044	**3.10**	<0.0002	<0.010	<0.010	<0.010	0.264	37.7	**2,904**	3.940	NS	NS	4,070	--	--	--

TABLE A2
SURFACE WATER ANALYTICAL RESULTS SUMMARY
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

Sample Location / ID	Date	Aluminum	Arsenic	Barium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc	Nitrate-nitrogen	Sulfate	Dissolved Solids	Total Organic Carbon	pH	Temperature (degrees Celsius)	Conductivity (µmhos/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
NC 2L Ground Water Standard		NE	0.010	0.700	0.002	0.010	1.0	0.300	0.015	0.050	0.001	0.020	0.020	1.00	10.0	250	500	NE	6.5 - 8.5	NE	NE	NE	NE	NE
Solid Waste Section Limit		NE	0.010	0.100	0.001	0.010	0.010	0.300	0.010	0.050	0.0002	0.010	0.01	0.01	10.0	250	NE	NE	NE	NE	NE	NE	NE	NE
NC 2B Surface Water Standard		0.087	0.050	1.0 [1]	0.002	0.050	0.007	1.0	0.025	0.200 [1]	0.000012	0.005	0.00006	0.05	10.0 [1]	250 [1]	500 [1]	NE	6.0 - 9.0	NE	NE	NE	NE	>5.0
RETENTION POND MW-003	9/30/94	**1.77**	<0.010	<0.250	<0.002	<0.020	**0.113**	**3.37**	<0.005	**2.2**	<0.00020	<0.010	<0.010	**0.096**	0.20	159	415	20.1	6.9	19.6	519	--	--	--
	3/31/95		<0.010	<0.250	<0.002	<0.020	<0.020	**4.86**	<0.005	**5.98**	<0.00020	<0.010	<0.010	0.032	0.10	**294**	**625**		7.6	13.6	896	--	--	--
	9/29/95	**1.64**	<0.010	<0.250	<0.002	<0.020	<0.020	**3.42**	0.007	**2.94**	<0.00020	<0.010	<0.010	**0.104**	0.463	**314**	**740**	3.74	4.9	14	1,040	--	--	--
	3/30/96	**11.4**	<0.010	<0.250	0.002	<0.020	<0.020	**23.3**	0.009	**3.16**	<0.00020	<0.010	<0.010	**0.126**	0.13	222	**552**	3.83	7.2	12	750	--	--	--
	9/27/96	**0.11**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.01**	0.007	**2.36**	<0.00020	<0.010	<0.010	0.03	0.16	**283**	**737**	6.73	7.6	20	974	--	--	--
Water from Sediment Basin at W-3	3/29/97	**0.238**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.93**	<0.005	**3.05**	<0.00020	**0.013**	<0.010	0.02	0.18	**809**	**807**	4.17	7.8	16	590	--	--	--
	9/17/97	**0.169**	<0.010	<0.250	<0.002	<0.020	<0.020	0.715	0.005	**3.06**	<0.00020	**0.006**	<0.010	**0.212**	0.330	**562**	**1,290**	5.29	7.7	19	1,650	--	--	--
	3/27/98	**0.270**	<0.010	<0.250	<0.002	<0.020	<0.020	**2.50**	<0.005	**3.37**	<0.00020	**0.013**	<0.010	0.041	0.250		**929**	6.98	7.2	20.0	1,214	--	--	--
	9/30/98	**0.353**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.38**	<0.005		<0.00020	**0.017**	<0.010	<0.020	0.780	**367**	**1,280**	10.1	6.9	19	920	--	--	--
	3/31/99	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**4.83**	<0.005	**5.55**	<0.00020	<0.010	<0.010	<0.020	0.19	**482**	**842**	7.58	7.1	16	592	--	--	--
	9/29/99	**0.677**	<0.010	<0.250	<0.002	<0.020	<0.020	**1.94**	<0.005	**0.894**	<0.00020	<0.010	<0.010	<0.020	0.10	**258**	413	8.14	7.7	19	741	--	--	--
	9/15/00	**0.224**	<0.010	<0.250	<0.002	<0.020	<0.020	**2.38**	<0.005	**2.8**	<0.00020	<0.010	<0.010	<0.020	0.16	**550**	**1,260**	8.58	7.1	21	680	--	--	--
	3/23/01	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**3.69**	0.010	**2.25**	<0.00020	<0.010	<0.010	0.030	0.23	**530**	**1,230**	5.72	6.6	17	640	--	--	--
	10/4/01	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**4.24**	0.006	**3.65**	<0.00020	<0.010	<0.010	<0.020	0.08	**592**	**1,440**	30	7.0	20	600	--	--	--
	3/28/02	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**5.62**	<0.005	**2.18**	NS	<0.010	<0.010	<0.020	0.11	**682**	**1,590**	5.36	6.4	13	680	--	--	--
	10/3/02	<0.100	<0.010	<0.250	0.002	<0.020	<0.020	**6.51**	<0.005	**5.29**	<0.00020	<0.010	<0.010	<0.020	<0.050	**932**	**1,900**	8.51	6.2	19	150	--	--	--
	3/25/03	**3.28**	<0.010	<0.250	<0.002	<0.020	<0.020	**6.17**	0.008	**4.29**	<0.00020	<0.010	<0.010	**0.078**	0.088	**784**	**1,520**	1.34	6.4	18	110	--	--	--
	10/2/03	**0.634**	<0.010	<0.250	<0.002	<0.020	<0.020	**5.95**	0.008	**6.75**	<0.00020	<0.010	<0.010	0.05	0.174	**765**	**1,420**	3.97	6.1	14	1,460	--	--	--
	4/28/04	**0.152**	<0.010	<0.250	<0.002	<0.020	<0.020	**8.37**	<0.005	**6.72**	<0.00020	<0.010	<0.010	<0.020	0.224	**1,040**	**1810**	3.89	NS	12.1	2030	--	--	--
	10/26/04	**0.554**	<0.010	<0.250	**0.005**	<0.020	<0.020	**16.3**	<0.005	**4.22**	<0.00020	<0.010	<0.010	0.036	0.289	**1,070**	**2,140**	5.16	NS	NS	2,150	--	--	--
	4/27/05	<0.100	<0.010	<0.250	0.002	<0.020	<0.020	**4.47**	<0.005	**6.11**	<0.00020	<0.010	<0.010	<0.020	0.246	**1,075**	**2,090**	4.05	NS	NS	2,320	--	--	--
	10/20/05	<0.100	<0.010	<0.250	**0.005**	<0.020	**0.027**	**7.90**	<0.005	**5.87**	<0.00020	<0.010	<0.010	0.044	0.279	**1,300**	**2,090**	30	NS	NS	1,060	--	--	--
	10/19/06	<0.100	<0.010	**1.46**	<0.002	<0.020	<0.020	**6.04**	<0.005	**4.55**	<0.00020	<0.010	<0.010	0.021	0.281	**1,170**	**1,920**	4.2	NS	NS	1,370	--	--	--
	4/27/07	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**8.33**	<0.005	**4.19**	<0.00020	<0.010	<0.010	<0.020	0.290	**1,130**	**2,130**	3.83	NS	NS	2,230	--	--	--
	11/19/07	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**8.20**	<0.005	**6.00**	<0.00020	<0.010	<0.010	<0.020	0.064	**1,680**	**2,550**	4.59	NS	NS	2,710	--	--	--
	4/30/08	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	**3.36**	<0.005	**3.80**	<0.00020	<0.010	<0.010	0.037	0.297	**2,090**	**2,110**	3.56	NS	NS	2,290	--	--	--
	10/29/08	<0.100	<0.010	0.0593	<0.001	<0.010	<0.010	**2.88**	0.0023	**4.36**	<0.0002	<0.010	<0.010	<0.010	0.171	**988**	**2,360**	3.48	NS	NS	2,740	--	--	--
	4/30/09	<0.100	<0.010	0.0532	<0.001	<0.010	<0.010	**4.62**	0.0072	**4.96**	<0.0002	<0.010	<0.010	0.0146	0.337	**261**	**2,460**	4.11	NS	NS	2,930	--	--	--

All concentrations in milligrams per liter.
NS - Not sampled
NE - Not established
[1] - No freshwater aquatic life standard established. Water Supply criteria presented.
Gray background indicates exceedance of NC 2B Surface Water Standard

TABLE A3
QUALITY CONTROL ANALYTICAL RESULTS SUMMARY
ASH LANDFILL - PERMIT 34-05
RURAL HALL, NORTH CAROLINA

Sample Location / ID	Date	Aluminum	Arsenic	Barium	Cadmium	Chromium (Total)	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc	Nitrate-nitrogen	Sulfate	Dissolved Solids	Total Organic Carbon	pH	Temperature (degrees Celsius)	Conductivity (µmhos/cm)
NC 2L Ground Water Standard		NE	0.010	0.700	0.002	0.010	1.0	0.300	0.015	0.050	0.001	0.020	0.020	1.00	10.0	250	500	NE	6.5 - 8.5	NE	NE
Solid Waste Section Limit		NE	0.010	0.100	0.001	0.010	0.010	0.300	0.010	0.050	0.0002	0.010	0.01	0.01	10.0	250	NE	NE	NE	NE	NE
Field Blank	9/30/98	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.00	<1.0	NS	NS	NS
	3/31/99	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	0.19	<5.00	<5.00	2.18	NS	NS	NS
	9/15/00	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.0	<1.0	NS	NS	NS
	3/23/01	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	0.006	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	14	<1.0	NS	NS	NS
	10/4/01	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	0.006	<0.010	<0.00020	<0.010	<0.010	<0.020	0.3	<5.00	15	<2.0	NS	NS	NS
	3/28/02	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	NS	<0.010	<0.010	<0.020	<0.050	<5.00	14	<1.0	NS	NS	NS
	10/3/02	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	6	<1.0	NS	NS	NS
	3/25/03	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	0.198	<5.00	<5.00	<1.0	NS	NS	NS
	10/2/03	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.00	<1.0	NS	NS	NS
	4/28/04	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	6	<1.0	NS	NS	NS
	10/26/04	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	0.151	<5.00	10	2.18	NS	NS	NS
	4/27/05	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	12	1.79	NS	NS	<30
	10/20/05	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	0.101	<5.00	<5.00	<0.50	NS	NS	<30
	10/19/06	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.00	<0.50	NS	NS	<30
	4/27/07	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.00	<0.50	NS	NS	<30
	11/19/07	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.00	<0.50	NS	NS	<30
	4/30/08	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	0.336	<5.00	<5.00	<0.50	NS	NS	<30
	10/29/08	<0.100	<0.010	0.0031	<0.001	<0.010	<0.010	<0.050	<0.010	<0.010	0.00002	<0.010	0.0022	0.010	<0.050	<10	<5.00	<0.50	NS	NS	<30
	4/30/09	<0.100	<0.010	0.0077	<0.001	<0.010	<0.010	<0.050	0.0045	0.008	<0.0002	<0.010	<0.010	<0.010	<0.050	<10	90	<0.50	NS	NS	109
Travel Blank (Trip)	9/30/98	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.00	<1.0	NS	NS	NS
	3/31/99	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	0.22	<5.00	15	<1.00	NS	NS	NS
	9/15/00	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.0	<1.0	NS	NS	NS
	3/23/01	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	14	1.03	NS	NS	NS
	10/4/01	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	0.4	<5.00	12	2.0	NS	NS	NS
	3/28/02	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	NS	<0.010	<0.010	<0.020	<0.050	<5.00	14	1.03	NS	NS	NS
	10/3/02	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.00	<0.50	NS	NS	NS
	3/25/03	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	0.197	<5.00	7	<1.0	NS	NS	NS
	10/2/03	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	7	<1.0	NS	NS	NS
	4/28/04	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	16	<1.0	NS	NS	NS
	10/26/04	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	8	1.29	NS	NS	NS
	4/27/05	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	14	1.76	NS	NS	<30
	10/20/05	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	6	<0.50	NS	NS	<30
	10/19/06	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.00	<0.50	NS	NS	<30
	4/27/07	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.00	<0.50	NS	NS	<30
	11/19/07	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.00	<0.50	NS	NS	<30
	4/30/08	<0.100	<0.010	<0.250	<0.002	<0.020	<0.020	<0.100	<0.005	<0.010	<0.00020	<0.010	<0.010	<0.020	<0.050	<5.00	<5.00	<0.50	NS	NS	<30
	10/29/08	<0.100	<0.010	0.0046	<0.001	<0.010	<0.010	<0.050	<0.010	<0.010	0.00001	<0.010	<0.010	<0.010	<0.050	<10	<5.00	<0.50	NS	NS	<30
	4/30/09	<0.100	<0.010	0.0086	0.0003	<0.010	<0.010	<0.050	<0.010	0.0071	<0.0002	<0.010	<0.010	<0.010	<0.050	<10	85	<0.50	NS	NS	115

All concentrations in milligrams per liter. NE - Not established NS - Not sampled

APPENDIX B
ANALYTICAL LABORATORY DATA SHEETS – GROUND WATER AND SURFACE WATER

Case Narrative

11/19/2010

ERM NC, PC
Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Lab Submittal Date: 10/12/2010
Prism Work Order: 0100333

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

This is a Revised Report and supercedes the original laboratory report dated 10/28/10. Cadmium and/or Zinc were reanalyzed with a lower reporting limit on Prism Sample IDs marked as RE-.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

VP Laboratory Services

Reviewed By

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
MC	Sample concentration too high for recovery evaluation.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Receipt Summary

11/19/2010

Prism Work Order: 0100333

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
W-1	0100333-01	Water	10/11/10	10/12/10
W-2	0100333-02	Water	10/11/10	10/12/10
W-3	0100333-03	Water	10/11/10	10/12/10
W-3B	0100333-04	Water	10/11/10	10/12/10
W-6	0100333-05	Water	10/11/10	10/12/10
SS-01	0100333-06	Water	10/11/10	10/12/10
SS-02	0100333-07	Water	10/11/10	10/12/10

Samples received in good condition at 1.7 degrees C unless otherwise noted.

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Laboratory Report

11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: W-1
Prism Sample ID: 0100333-01
Prism Work Order: 0100333
Time Collected: 10/11/10 15:20
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Aluminum	**63 J**	**ug/L**	**250**	**14**	**5**	**6020A**	**10/22/10 13:19**	**RWF**	**P0J0288**
Arsenic	**6.7**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 13:19**	**RWF**	**P0J0288**
Barium	**27**	**ug/L**	**25**	**0.96**	**5**	**6020A**	**10/22/10 13:19**	**RWF**	**P0J0288**
Chromium	**0.90 J**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 13:19**	**RWF**	**P0J0288**
Copper	BRL	ug/L	25	2.6	5	6020A	10/26/10 13:39	RWF	P0J0288
Iron	**0.30**	**mg/L**	**0.050**	**0.010**	**1**	**6010C**	**10/27/10 21:35**	**DJS**	**P0J0552**
Lead	**1.3 J**	**ug/L**	**5.0**	**0.64**	**5**	**6020A**	**10/22/10 13:19**	**RWF**	**P0J0288**
Manganese	**5000**	**ug/L**	**50**	**1.7**	**10**	**6020A**	**10/26/10 14:10**	**RWF**	**P0J0288**
Selenium	**33**	**ug/L**	**5.0**	**2.2**	**5**	**6020A**	**10/22/10 13:19**	**RWF**	**P0J0288**
Silver	**1.3 J**	**ug/L**	**5.0**	**0.30**	**5**	**6020A**	**10/22/10 13:19**	**RWF**	**P0J0288**
Anions by Ion Chromatography									
Nitrate as N	**0.78**	**mg/L**	**0.20**	**0.015**	**2**	**300.0**	**10/12/10 18:25**	**RSL**	**P0J0240**
Sulfate	**1400**	**mg/L**	**200**	**12**	**200**	**300.0**	**10/14/10 10:24**	**RSL**	**P0J0264**
General Chemistry Parameters									
Total Dissolved Solids	**3100**	**mg/L**	**50**	**8.7**	**1**	**SM2540 C**	**10/15/10 13:15**	**JAB**	**P0J0327**
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000089	1	7470A	10/21/10 12:02	LTB	P0J0415

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Laboratory Report

11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: W-1
Prism Sample ID: 0100333-01RE1
Prism Work Order: 0100333
Time Collected: 10/11/10 15:20
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Cadmium	BRL	ug/L	1.0	0.20	1	6020A	11/17/10 10:05	RWF	P0J0288
Zinc	**12**	**ug/L**	**10**	**0.58**	**1**	**6020A**	**11/17/10 10:05**	**RWF**	**P0J0288**

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Laboratory Report

11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: W-2
Prism Sample ID: 0100333-02
Prism Work Order: 0100333
Time Collected: 10/11/10 17:30
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Aluminum	**2300**	**ug/L**	**250**	**14**	**5**	**6020A**	**10/22/10 14:02**	**RWF**	**P0J0288**
Arsenic	**2.4 J**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 14:02**	**RWF**	**P0J0288**
Barium	**240**	**ug/L**	**25**	**0.96**	**5**	**6020A**	**10/22/10 14:02**	**RWF**	**P0J0288**
Chromium	**8.7**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 14:02**	**RWF**	**P0J0288**
Copper	**11 J**	**ug/L**	**25**	**2.6**	**5**	**6020A**	**10/26/10 14:36**	**RWF**	**P0J0288**
Iron	**6.6**	**mg/L**	**0.050**	**0.010**	**1**	**6010C**	**10/27/10 21:59**	**DJS**	**P0J0552**
Lead	**1.7 J**	**ug/L**	**5.0**	**0.64**	**5**	**6020A**	**10/22/10 14:02**	**RWF**	**P0J0288**
Manganese	**2300**	**ug/L**	**25**	**0.84**	**5**	**6020A**	**10/26/10 14:36**	**RWF**	**P0J0288**
Selenium	**11**	**ug/L**	**5.0**	**2.2**	**5**	**6020A**	**10/22/10 14:02**	**RWF**	**P0J0288**
Silver	BRL	ug/L	5.0	0.30	5	6020A	10/22/10 14:02	RWF	P0J0288
Zinc	**81**	**ug/L**	**50**	**2.9**	**5**	**6020A**	**10/26/10 14:36**	**RWF**	**P0J0288**
Anions by Ion Chromatography									
Nitrate as N	**0.21**	**mg/L**	**0.20**	**0.015**	**2**	**300.0**	**10/12/10 18:58**	**RSL**	**P0J0240**
Sulfate	**660**	**mg/L**	**100**	**6.2**	**100**	**300.0**	**10/13/10 17:24**	**RSL**	**P0J0264**
General Chemistry Parameters									
Total Dissolved Solids	**1400**	**mg/L**	**50**	**8.7**	**1**	**SM2540 C**	**10/15/10 13:15**	**JAB**	**P0J0327**
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000089	1	7470A	10/21/10 12:06	LTB	P0J0415

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Laboratory Report

11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: W-2
Prism Sample ID: 0100333-02RE1
Prism Work Order: 0100333
Time Collected: 10/11/10 17:30
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Cadmium	**0.68 J**	**ug/L**	**1.0**	**0.20**	**1**	**6020A**	**11/17/10 10:22**	**RWF**	**P0J0288**

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Laboratory Report

11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: W-3
Prism Sample ID: 0100333-03
Prism Work Order: 0100333
Time Collected: 10/11/10 16:10
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Aluminum	BRL	ug/L	250	14	5	6020A	10/22/10 14:09	RWF	P0J0288
Arsenic	BRL	ug/L	5.0	0.58	5	6020A	10/22/10 14:09	RWF	P0J0288
Barium	**110**	**ug/L**	**25**	**0.96**	**5**	**6020A**	**10/22/10 14:09**	**RWF**	**P0J0288**
Chromium	**1.3 J**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 14:09**	**RWF**	**P0J0288**
Copper	BRL	ug/L	25	2.6	5	6020A	10/26/10 14:41	RWF	P0J0288
Iron	**0.021 J**	**mg/L**	**0.050**	**0.010**	**1**	**6010C**	**10/27/10 22:08**	**DJS**	**P0J0552**
Lead	BRL	ug/L	5.0	0.64	5	6020A	10/22/10 14:09	RWF	P0J0288
Manganese	**1.6 J**	**ug/L**	**25**	**0.84**	**5**	**6020A**	**10/22/10 14:09**	**RWF**	**P0J0288**
Selenium	**77**	**ug/L**	**5.0**	**2.2**	**5**	**6020A**	**10/22/10 14:09**	**RWF**	**P0J0288**
Silver	BRL	ug/L	5.0	0.30	5	6020A	10/22/10 14:09	RWF	P0J0288
Anions by Ion Chromatography									
Nitrate as N	**0.79**	**mg/L**	**0.20**	**0.015**	**2**	**300.0**	**10/12/10 18:42**	**RSL**	**P0J0240**
Sulfate	**89**	**mg/L**	**20**	**1.2**	**20**	**300.0**	**10/13/10 18:14**	**RSL**	**P0J0264**
General Chemistry Parameters									
Total Dissolved Solids	**310**	**mg/L**	**50**	**8.7**	**1**	**SM2540 C**	**10/15/10 13:15**	**JAB**	**P0J0327**
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000089	1	7470A	10/21/10 12:10	LTB	P0J0415

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Laboratory Report

11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: W-3
Prism Sample ID: 0100333-03RE1
Prism Work Order: 0100333
Time Collected: 10/11/10 16:10
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Cadmium	BRL	ug/L	1.0	0.20	1	6020A	11/17/10 10:27	RWF	P0J0288
Zinc	**20**	**ug/L**	**10**	**0.58**	**1**	**6020A**	**11/17/10 10:27**	**RWF**	**P0J0288**

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11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: W-3B
Prism Sample ID: 0100333-04
Prism Work Order: 0100333
Time Collected: 10/11/10 17:10
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Aluminum	BRL	ug/L	250	14	5	6020A	10/22/10 14:15	RWF	P0J0288
Arsenic	**2.4 J**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 14:15**	**RWF**	**P0J0288**
Barium	**45**	**ug/L**	**25**	**0.96**	**5**	**6020A**	**10/22/10 14:15**	**RWF**	**P0J0288**
Chromium	**0.95 J**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 14:15**	**RWF**	**P0J0288**
Copper	BRL	ug/L	25	2.6	5	6020A	10/26/10 14:45	RWF	P0J0288
Iron	**0.50**	**mg/L**	**0.050**	**0.010**	**1**	**6010C**	**10/27/10 22:16**	**DJS**	**P0J0552**
Lead	BRL	ug/L	5.0	0.64	5	6020A	10/22/10 14:15	RWF	P0J0288
Manganese	**980**	**ug/L**	**25**	**0.84**	**5**	**6020A**	**10/22/10 14:15**	**RWF**	**P0J0288**
Selenium	**9.9**	**ug/L**	**5.0**	**2.2**	**5**	**6020A**	**10/22/10 14:15**	**RWF**	**P0J0288**
Silver	BRL	ug/L	5.0	0.30	5	6020A	10/22/10 14:15	RWF	P0J0288
Anions by Ion Chromatography									
Nitrate as N	**0.14 J**	**mg/L**	**0.20**	**0.015**	**2**	**300.0**	**10/12/10 19:15**	**RSL**	**P0J0240**
Sulfate	**300**	**mg/L**	**100**	**6.2**	**100**	**300.0**	**10/13/10 18:30**	**RSL**	**P0J0264**
General Chemistry Parameters									
Total Dissolved Solids	**830**	**mg/L**	**50**	**8.7**	**1**	**SM2540 C**	**10/15/10 13:15**	**JAB**	**P0J0327**
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000089	1	7470A	10/21/10 12:14	LTB	P0J0415

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Laboratory Report

11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: W-3B
Prism Sample ID: 0100333-04RE1
Prism Work Order: 0100333
Time Collected: 10/11/10 17:10
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Cadmium	BRL	ug/L	1.0	0.20	1	6020A	11/17/10 10:31	RWF	P0J0288
Zinc	**6.0 J**	**ug/L**	**10**	**0.58**	**1**	**6020A**	**11/17/10 10:31**	**RWF**	**P0J0288**

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Laboratory Report

11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: W-6
Prism Sample ID: 0100333-05
Prism Work Order: 0100333
Time Collected: 10/11/10 14:20
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Aluminum	**320**	**ug/L**	**250**	**14**	**5**	**6020A**	**10/22/10 14:21**	**RWF**	**P0J0288**
Arsenic	BRL	ug/L	5.0	0.58	5	6020A	10/22/10 14:21	RWF	P0J0288
Barium	**37**	**ug/L**	**25**	**0.96**	**5**	**6020A**	**10/22/10 14:21**	**RWF**	**P0J0288**
Chromium	**420**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 14:21**	**RWF**	**P0J0288**
Copper	**19 J**	**ug/L**	**25**	**2.6**	**5**	**6020A**	**10/26/10 14:49**	**RWF**	**P0J0288**
Iron	**2.8**	**mg/L**	**0.050**	**0.010**	**1**	**6010C**	**10/27/10 22:40**	**DJS**	**P0J0552**
Lead	BRL	ug/L	5.0	0.64	5	6020A	10/22/10 14:21	RWF	P0J0288
Manganese	**56**	**ug/L**	**25**	**0.84**	**5**	**6020A**	**10/22/10 14:21**	**RWF**	**P0J0288**
Selenium	BRL	ug/L	5.0	2.2	5	6020A	10/22/10 14:21	RWF	P0J0288
Silver	BRL	ug/L	5.0	0.30	5	6020A	10/22/10 14:21	RWF	P0J0288
Zinc	**63**	**ug/L**	**50**	**2.9**	**5**	**6020A**	**10/26/10 14:49**	**RWF**	**P0J0288**
Anions by Ion Chromatography									
Nitrate as N	**0.12 J**	**mg/L**	**0.20**	**0.015**	**2**	**300.0**	**10/12/10 18:09**	**RSL**	**P0J0240**
Sulfate	**13**	**mg/L**	**2.0**	**0.12**	**2**	**300.0**	**10/12/10 18:09**	**RSL**	**P0J0240**
General Chemistry Parameters									
Total Dissolved Solids	**410**	**mg/L**	**50**	**8.7**	**1**	**SM2540 C**	**10/15/10 13:15**	**JAB**	**P0J0327**
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000089	1	7470A	10/21/10 12:17	LTB	P0J0415

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11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: W-6
Prism Sample ID: 0100333-05RE1
Prism Work Order: 0100333
Time Collected: 10/11/10 14:20
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Cadmium	BRL	ug/L	1.0	0.20	1	6020A	11/17/10 10:37	RWF	P0J0288

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11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: SS-01
Prism Sample ID: 0100333-06
Prism Work Order: 0100333
Time Collected: 10/11/10 11:00
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Aluminum	**52 J**	**ug/L**	**250**	**14**	**5**	**6020A**	**10/22/10 14:27**	**RWF**	**P0J0288**
Arsenic	**1.1 J**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 14:27**	**RWF**	**P0J0288**
Barium	**71**	**ug/L**	**25**	**0.96**	**5**	**6020A**	**10/22/10 14:27**	**RWF**	**P0J0288**
Chromium	**1.6 J**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 14:27**	**RWF**	**P0J0288**
Copper	BRL	ug/L	25	2.6	5	6020A	10/26/10 14:54	RWF	P0J0288
Iron	**0.16**	**mg/L**	**0.050**	**0.010**	**1**	**6010C**	**10/27/10 22:47**	**DJS**	**P0J0552**
Lead	BRL	ug/L	5.0	0.64	5	6020A	10/22/10 14:27	RWF	P0J0288
Manganese	**16 J**	**ug/L**	**25**	**0.84**	**5**	**6020A**	**10/22/10 14:27**	**RWF**	**P0J0288**
Selenium	BRL	ug/L	5.0	2.2	5	6020A	10/22/10 14:27	RWF	P0J0288
Silver	BRL	ug/L	5.0	0.30	5	6020A	10/22/10 14:27	RWF	P0J0288
Anions by Ion Chromatography									
Nitrate as N	**0.64**	**mg/L**	**0.20**	**0.015**	**2**	**300.0**	**10/12/10 17:36**	**RSL**	**P0J0240**
Sulfate	**40**	**mg/L**	**10**	**0.62**	**10**	**300.0**	**10/13/10 18:47**	**RSL**	**P0J0264**
General Chemistry Parameters									
Total Dissolved Solids	**240**	**mg/L**	**50**	**8.7**	**1**	**SM2540 C**	**10/15/10 13:15**	**JAB**	**P0J0327**
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000089	1	7470A	10/21/10 11:35	LTB	P0J0415

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Laboratory Report

11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: SS-01
Prism Sample ID: 0100333-06RE1
Prism Work Order: 0100333
Time Collected: 10/11/10 11:00
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Cadmium	BRL	ug/L	1.0	0.20	1	6020A	11/17/10 10:41	RWF	P0J0288
Zinc	**36**	**ug/L**	**10**	**0.58**	**1**	**6020A**	**11/17/10 10:41**	**RWF**	**P0J0288**

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11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: SS-02
Prism Sample ID: 0100333-07
Prism Work Order: 0100333
Time Collected: 10/11/10 11:15
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Aluminum	BRL	ug/L	250	14	5	6020A	10/22/10 14:34	RWF	P0J0288
Arsenic	**1.1 J**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 14:34**	**RWF**	**P0J0288**
Barium	**69**	**ug/L**	**25**	**0.96**	**5**	**6020A**	**10/22/10 14:34**	**RWF**	**P0J0288**
Chromium	**1.4 J**	**ug/L**	**5.0**	**0.58**	**5**	**6020A**	**10/22/10 14:34**	**RWF**	**P0J0288**
Copper	BRL	ug/L	25	2.6	5	6020A	10/26/10 14:58	RWF	P0J0288
Iron	**0.27**	**mg/L**	**0.050**	**0.010**	**1**	**6010C**	**10/27/10 22:55**	**DJS**	**P0J0552**
Lead	BRL	ug/L	5.0	0.64	5	6020A	10/22/10 14:34	RWF	P0J0288
Manganese	**310**	**ug/L**	**25**	**0.84**	**5**	**6020A**	**10/22/10 14:34**	**RWF**	**P0J0288**
Selenium	**8.9**	**ug/L**	**5.0**	**2.2**	**5**	**6020A**	**10/22/10 14:34**	**RWF**	**P0J0288**
Silver	BRL	ug/L	5.0	0.30	5	6020A	10/22/10 14:34	RWF	P0J0288
Anions by Ion Chromatography									
Nitrate as N	**1.2**	**mg/L**	**0.20**	**0.015**	**2**	**300.0**	**10/12/10 17:52**	**RSL**	**P0J0240**
Sulfate	**250**	**mg/L**	**50**	**3.1**	**50**	**300.0**	**10/13/10 19:03**	**RSL**	**P0J0264**
General Chemistry Parameters									
Total Dissolved Solids	**660**	**mg/L**	**50**	**8.7**	**1**	**SM2540 C**	**10/15/10 13:15**	**JAB**	**P0J0327**
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000089	1	7470A	10/21/10 12:21	LTB	P0J0415

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Laboratory Report

11/19/2010

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Sample Matrix: Water

Client Sample ID: SS-02
Prism Sample ID: 0100333-07RE1
Prism Work Order: 0100333
Time Collected: 10/11/10 11:15
Time Submitted: 10/12/10 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Cadmium	BRL	ug/L	1.0	0.20	1	6020A	11/17/10 10:45	RWF	P0J0288
Zinc	**6.4 J**	**ug/L**	**10**	**0.58**	**1**	**6020A**	**11/17/10 10:45**	**RWF**	**P0J0288**

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ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Prism Work Order: 0100333
Time Submitted: 10/12/10 3:30:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0J0415 - 7470A										
Blank (P0J0415-BLK1)				Prepared: 10/20/10		Analyzed: 10/21/10				
Mercury	BRL	0.00020	mg/L							
LCS (P0J0415-BS1)				Prepared: 10/20/10		Analyzed: 10/21/10				
Mercury	0.00945	0.00020	mg/L	0.00938		101	80-120			
Matrix Spike (P0J0415-MS1)		**Source: 0100333-06**		Prepared: 10/20/10		Analyzed: 10/21/10				
Mercury	0.00902	0.00020	mg/L	0.00938	BRL	96	80-120			
Matrix Spike Dup (P0J0415-MSD1)		**Source: 0100333-06**		Prepared: 10/20/10		Analyzed: 10/21/10				
Mercury	0.00896	0.00020	mg/L	0.00938	BRL	96	80-120	0.7	20	

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ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Prism Work Order: 0100333
Time Submitted: 10/12/10 3:30:00PM

3030C Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0J0288 - 3005A										
Blank (P0J0288-BLK1)				Prepared: 10/13/10		Analyzed: 10/22/10				
Aluminum	BRL	50	ug/L							
Arsenic	BRL	1.0	ug/L							
Barium	BRL	5.0	ug/L							
Cadmium	BRL	1.0	ug/L							
Chromium	BRL	1.0	ug/L							
Copper	BRL	5.0	ug/L							
Lead	BRL	1.0	ug/L							
Manganese	BRL	5.0	ug/L							
Selenium	BRL	1.0	ug/L							
Silver	BRL	1.0	ug/L							
Zinc	0.764	10	ug/L							J
LCS (P0J0288-BS1)				Prepared: 10/13/10		Analyzed: 10/22/10				
Aluminum	88.1	50	ug/L	100		88	80-120			
Arsenic	89.0	1.0	ug/L	100		89	80-120			
Barium	91.7	5.0	ug/L	100		92	80-120			
Cadmium	99.0	1.0	ug/L	100		99	80-120			
Chromium	96.6	1.0	ug/L	100		97	80-120			
Copper	95.9	5.0	ug/L	100		96	80-120			
Lead	92.0	1.0	ug/L	100		92	80-120			
Manganese	89.9	5.0	ug/L	100		90	80-120			
Selenium	99.0	1.0	ug/L	100		99	80-120			
Silver	93.9	1.0	ug/L	100		94	80-120			
Zinc	105	10	ug/L	100		105	80-120			
Matrix Spike (P0J0288-MS1)		**Source: 0100333-01**		Prepared: 10/13/10		Analyzed: 10/22/10				
Aluminum	213	250	ug/L	100	62.8	150	75-125			MI, J
Arsenic	88.4	5.0	ug/L	100	6.74	82	75-125			
Barium	116	25	ug/L	100	27.3	89	75-125			
Cadmium	86.4	1.0	ug/L	100	BRL	86	75-125			
Chromium	92.7	5.0	ug/L	100	0.904	92	75-125			
Copper	86.5	25	ug/L	100	BRL	86	75-125			
Lead	87.3	5.0	ug/L	100	1.25	86	75-125			
Manganese	4540	25	ug/L	100	4970	NR	75-125			MC
Selenium	111	5.0	ug/L	100	33.2	78	75-125			
Silver	87.9	5.0	ug/L	100	1.26	87	75-125			
Zinc	107	10	ug/L	100	8.85	98	75-125			

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Prism Work Order: 0100333
Time Submitted: 10/12/10 3:30:00PM

3030C Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0J0288 - 3005A										
Matrix Spike Dup (P0J0288-MSD1)		**Source: 0100333-01**		Prepared: 10/13/10		Analyzed: 10/22/10				
Aluminum	215	250	ug/L	100	62.8	152	75-125	1	20	MI, J
Arsenic	88.4	5.0	ug/L	100	6.74	82	75-125	0.04	20	
Barium	115	25	ug/L	100	27.3	87	75-125	1	20	
Cadmium	86.7	1.0	ug/L	100	BRL	87	75-125	0.4	20	
Chromium	92.4	5.0	ug/L	100	0.904	92	75-125	0.3	20	
Copper	84.9	25	ug/L	100	BRL	85	75-125	2	20	
Lead	87.0	5.0	ug/L	100	1.25	86	75-125	0.4	20	
Manganese	4460	25	ug/L	100	4970	NR	75-125	2	20	MC
Selenium	116	5.0	ug/L	100	33.2	83	75-125	4	20	
Silver	87.4	5.0	ug/L	100	1.26	86	75-125	0.6	20	
Zinc	80.3	10	ug/L	100	8.85	71	75-125	28	20	D, MI
Batch P0J0552 - SM3030 C										
Blank (P0J0552-BLK1)				Prepared: 10/13/10		Analyzed: 10/27/10				
Iron	BRL	0.050	mg/L							
LCS (P0J0552-BS1)				Prepared: 10/13/10		Analyzed: 10/27/10				
Iron	0.108	0.050	mg/L	0.100		108	80-120			
Matrix Spike (P0J0552-MS1)		**Source: 0100333-01**		Prepared: 10/13/10		Analyzed: 10/27/10				
Iron	0.417	0.050	mg/L	0.100	0.298	119	75-125			
Matrix Spike Dup (P0J0552-MSD1)		**Source: 0100333-01**		Prepared: 10/13/10		Analyzed: 10/27/10				
Iron	0.395	0.050	mg/L	0.100	0.298	97	75-125	6	20	

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ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Prism Work Order: 0100333
Time Submitted: 10/12/10 3:30:00PM

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0J0240 - NO PREP										
Blank (P0J0240-BLK1)				Prepared: 10/11/10	Analyzed: 10/13/10					
Nitrate as N	BRL	0.10	mg/L							
Sulfate	BRL	1.0	mg/L							
LCS (P0J0240-BS1)				Prepared: 10/11/10	Analyzed: 10/13/10					
Nitrate as N	4.96	0.10	mg/L	5.00		99	90-110			
Sulfate	4.89	1.0	mg/L	5.00		98	90-110			
Batch P0J0264 - NO PREP										
Blank (P0J0264-BLK1)				Prepared & Analyzed: 10/13/10						
Sulfate	BRL	1.0	mg/L							
LCS (P0J0264-BS1)				Prepared & Analyzed: 10/13/10						
Sulfate	4.98	1.0	mg/L	5.00		100	90-110			
Matrix Spike (P0J0264-MS1)		**Source: 0100333-02**		Prepared & Analyzed: 10/13/10						
Sulfate	662	100	mg/L	5.00	658	81	90-110			MC
Matrix Spike Dup (P0J0264-MSD1)		**Source: 0100333-02**		Prepared & Analyzed: 10/13/10						
Sulfate	662	100	mg/L	5.00	658	68	90-110	0.1	15	MC

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ERM NC, PC
Attn: Alan Martin
Suite 200, 8000 Corporate Center Drive
Charlotte, NC 28226

Project: RJRT Rural Hall

Prism Work Order: 0100333
Time Submitted: 10/12/10 3:30:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0J0327 - NO PREP										
Blank (P0J0327-BLK1)				Prepared & Analyzed: 10/15/10						
Total Dissolved Solids	BRL	50	mg/L							
LCS (P0J0327-BS1)				Prepared & Analyzed: 10/15/10						
Total Dissolved Solids	962	50	mg/L	1000		96	90-110			

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Sample Extraction Data

Prep Method: 3005A

Lab Number	Batch	Initial	Final	Date
0100333-01	P0J0288	50 mL	50 mL	10/13/10
0100333-01	P0J0288	50 mL	50 mL	10/13/10
0100333-01	P0J0288	50 mL	50 mL	10/13/10
0100333-01RE1	P0J0288	50 mL	50 mL	10/13/10
0100333-02	P0J0288	50 mL	50 mL	10/13/10
0100333-02	P0J0288	50 mL	50 mL	10/13/10
0100333-02RE1	P0J0288	50 mL	50 mL	10/13/10
0100333-03	P0J0288	50 mL	50 mL	10/13/10
0100333-03	P0J0288	50 mL	50 mL	10/13/10
0100333-03RE1	P0J0288	50 mL	50 mL	10/13/10
0100333-04	P0J0288	50 mL	50 mL	10/13/10
0100333-04	P0J0288	50 mL	50 mL	10/13/10
0100333-04RE1	P0J0288	50 mL	50 mL	10/13/10
0100333-05	P0J0288	50 mL	50 mL	10/13/10
0100333-05	P0J0288	50 mL	50 mL	10/13/10
0100333-05RE1	P0J0288	50 mL	50 mL	10/13/10
0100333-06	P0J0288	50 mL	50 mL	10/13/10
0100333-06	P0J0288	50 mL	50 mL	10/13/10
0100333-06RE1	P0J0288	50 mL	50 mL	10/13/10
0100333-07	P0J0288	50 mL	50 mL	10/13/10
0100333-07	P0J0288	50 mL	50 mL	10/13/10
0100333-07RE1	P0J0288	50 mL	50 mL	10/13/10

Prep Method: SM3030 C

Lab Number	Batch	Initial	Final	Date
0100333-01	P0J0552	50 mL	50 mL	10/13/10
0100333-02	P0J0552	50 mL	50 mL	10/13/10
0100333-03	P0J0552	50 mL	50 mL	10/13/10
0100333-04	P0J0552	50 mL	50 mL	10/13/10
0100333-05	P0J0552	50 mL	50 mL	10/13/10
0100333-06	P0J0552	50 mL	50 mL	10/13/10
0100333-07	P0J0552	50 mL	50 mL	10/13/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0100333-01	P0J0240	25 mL	25 mL	10/12/10
0100333-01	P0J0264	25 mL	25 mL	10/14/10
0100333-02	P0J0240	25 mL	25 mL	10/12/10
0100333-02	P0J0264	25 mL	25 mL	10/13/10
0100333-03	P0J0240	25 mL	25 mL	10/12/10
0100333-03	P0J0264	25 mL	25 mL	10/13/10
0100333-04	P0J0264	25 mL	25 mL	10/13/10
0100333-04	P0J0240	25 mL	25 mL	10/12/10
0100333-05	P0J0240	25 mL	25 mL	10/12/10
0100333-06	P0J0264	25 mL	25 mL	10/13/10
0100333-06	P0J0240	25 mL	25 mL	10/12/10
0100333-07	P0J0240	25 mL	25 mL	10/12/10
0100333-07	P0J0264	25 mL	25 mL	10/13/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0100333-01	P0J0327	50 mL	50 mL	10/15/10
0100333-02	P0J0327	50 mL	50 mL	10/15/10
0100333-03	P0J0327	50 mL	50 mL	10/15/10

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Sample Extraction Data

NO PREP

Lab Number	Batch	Initial	Final	Date
0100333-04	P0J0327	50 mL	50 mL	10/15/10
0100333-05	P0J0327	50 mL	50 mL	10/15/10
0100333-06	P0J0327	50 mL	50 mL	10/15/10
0100333-07	P0J0327	50 mL	50 mL	10/15/10

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date
0100333-01	P0J0415	20 mL	30 mL	10/20/10
0100333-02	P0J0415	20 mL	30 mL	10/20/10
0100333-03	P0J0415	20 mL	30 mL	10/20/10
0100333-04	P0J0415	20 mL	30 mL	10/20/10
0100333-05	P0J0415	20 mL	30 mL	10/20/10
0100333-06	P0J0415	20 mL	30 mL	10/20/10
0100333-07	P0J0415	20 mL	30 mL	10/20/10

Subcontracted Analyses

The following analyses were subcontracted to Gulf Coast Analytical Labs, Inc.

Lab Number	Analysis
0100333-01	TOC (Sub)
0100333-02	TOC (Sub)
0100333-03	TOC (Sub)
0100333-04	TOC (Sub)
0100333-05	TOC (Sub)
0100333-06	TOC (Sub)
0100333-07	TOC (Sub)

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CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions
449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: RJRT-Rural Hall
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: ERM NC, PC
Address: Same as Reporting Address

Client Company Name: ERM NC, PC
Report To/Contact Name: Alan Martin
Reporting Address: 8000 Corporate Center Dr. Suite 200, Charlotte, NC 28226
Phone: 704-541-8345 Fax (Yes) (No): 704-541-8416
Email (Yes) (No) Email Address alan.martin@erm.com
EDD Type: PDF ✓ Excel ___ Other ___
Site Location Name: RJRT-Rural Hall
Site Location Physical Address: Rural Hall, NC

Purchase Order No./Billing Reference RJRT Ash Landfill
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 1.7	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ USACE ___ FL ___ NC ✓ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ✓
Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED: Metals	Surface Nitrate Dissolved Solids	TOC				REMARKS	PRISM LAB ID NO.
W-1	10/11/10	1520	Water	VOA/P	5	40, 250, 500	HCl, HNO3	X	X	X					01
W-2	10/11/10	1730	↓	↓	5	↓	↓	X	X	X					02
W-3	↓	1610	↓	↓	5	↓	↓	X	X	X					03
W-3B	↓	1710	↓	↓	5	↓	↓	X	X	X					04
W-6	↓	1420	↓	↓	5	↓	↓	X	X	X					05
SS-01	↓	1100	↓	↓	5	↓	↓	X	X	X					06
SS-02	↓	1115	↓	↓	5	↓	↓	X	X	X					07

Sampler's Signature [signature] Sampled By (Print Name) Thomas Fisher Affiliation ERM NC

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military Hours
[signature]	[signature]	10/12/10	1107
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 10-12-10	15:30

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other ___
COC Group No. 0100333

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☒ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Prism Laboratories, Inc.
PO BOX 240543
Charlotte, NC 28224

ATTENTION
Angie Overcash

PROJECT ID
0100333

LABORATORY REPORT NUMBER
210101524

DATE
10/22/2010

Primary Data Review By

Signed by:Robyn Migues
Date:Tue Oct

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Avenue, Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 10/22/2010

GCAL Report 210101524

Deliver To	Prism Laboratories, Inc. PO BOX 240543 Charlotte, NC 28224 706-529-6364
Attn	Angie Overcash

Project 0100333

CASE NARRATIVE

Client: Prism **Report:** 210101524

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

CONVENTIONALS

In the SM 5310B analysis, samples 21010152401 (W-1) and 21010152402 (W-2) had to be diluted in order to bracket the Total Carbon and/or Total Inorganic Carbon concentrations within the calibration range of the instrument. The Total Organic Carbon is based on the difference between the Total Carbon and the Inorganic Carbon. This is reflected in the elevated reporting limit.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues

Signed by Robyn Migues
Date: Tue Oct

Robyn Migues
Technical Director
GCAL REPORT 210101524

THIS REPORT CONTAINS 17 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152401	W-1	Water	10/11/2010 15:20	10/15/2010 09:00
21010152402	W-2	Water	10/11/2010 17:30	10/15/2010 09:00
21010152403	W-3	Water	10/11/2010 16:10	10/15/2010 09:00
21010152404	W-3B	Water	10/11/2010 17:10	10/15/2010 09:00
21010152405	W-6	Water	10/11/2010 14:20	10/15/2010 09:00
21010152406	SS-01	Water	10/11/2010 11:00	10/15/2010 09:00
21010152407	SS-02	Water	10/11/2010 11:15	10/15/2010 09:00

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152401	W-1	Water	10/11/2010 15:20	10/15/2010 09:00

SM 5310B TOC

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	26.6	2.0	0.41	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152402	W-2	Water	10/11/2010 17:30	10/15/2010 09:00

SM 5310B TOC

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	10.1	2.0	0.41	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152403	W-3	Water	10/11/2010 16:10	10/15/2010 09:00

SM 5310B TOC

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	4.0	1.0	0.20	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152405	W-6	Water	10/11/2010 14:20	10/15/2010 09:00

SM 5310B TOC

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	3.9	1.0	0.20	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152406	SS-01	Water	10/11/2010 11:00	10/15/2010 09:00

SM 5310B TOC

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	3.3	1.0	0.20	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152407	SS-02	Water	10/11/2010 11:15	10/15/2010 09:00

SM 5310B TOC

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	4.7	1.0	0.20	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152401	W-1	Water	10/11/2010 15:20	10/15/2010 09:00

SM 5310B TOC

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	10/15/2010 21:34	AEL	443756

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	26.6	2.0	0.41	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152402	W-2	Water	10/11/2010 17:30	10/15/2010 09:00

SM 5310B TOC

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	10/19/2010 18:31	AEL	443973

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	10.1	2.0	0.41	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152403	W-3	Water	10/11/2010 16:10	10/15/2010 09:00

SM 5310B TOC

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/15/2010 22:56	AEL	443756

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	4.0	1.0	0.20	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152404	W-3B	Water	10/11/2010 17:10	10/15/2010 09:00

SM 5310B TOC

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/15/2010 23:18	AEL	443756

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	0.20U	1.0	0.20	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152405	W-6	Water	10/11/2010 14:20	10/15/2010 09:00

SM 5310B TOC

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/15/2010 23:35	AEL	443756

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	3.9	1.0	0.20	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152406	SS-01	Water	10/11/2010 11:00	10/15/2010 09:00

SM 5310B TOC

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/15/2010 23:54	AEL	443756

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	3.3	1.0	0.20	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21010152407	SS-02	Water	10/11/2010 11:15	10/15/2010 09:00

SM 5310B TOC

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	10/16/2010 00:13	AEL	443756

CAS#	Parameter	Result	RDL	MDL	Units
C-012	Total Organic Carbon	4.7	1.0	0.20	mg/L

General Chemistry Quality Control Summary

Analytical Batch 443756	Client ID	MB443756			LCS443756			LCSD443756			
Prep Batch N/A	GCAL ID	887575			887576			887577			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	10/15/2010 17:15			10/15/2010 17:35			10/15/2010 18:12			
	Matrix	Water			Water			Water			
SM 5310B TOC		Units	mg/L	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
C-012	Total Organic Carbon	0.20U	0.20	50.0	45.2	90	80 - 120	47.4	95	5	25

Analytical Batch 443756	Client ID	W-1			887246MS			887246MSD			
Prep Batch N/A	GCAL ID	21010152401			887578			887579			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/15/2010 21:34			10/15/2010 22:00			10/15/2010 22:20			
	Matrix	Water			Water			Water			
SM 5310B TOC		Units	mg/L	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
C-012	Total Organic Carbon	26.6	0.41	100	134	107	75 - 125	124	97	8	25

Analytical Batch 443756	Client ID	002 OUTFALL			887329MS			887329MSD			
Prep Batch N/A	GCAL ID	21010153003			887580			887581			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/16/2010 02:11			10/16/2010 02:28			10/16/2010 02:46			
	Matrix	Water			Water			Water			
SM 5310B TOC		Units	mg/L	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
C-012	Total Organic Carbon	0.00	0.20	50.0	53.1	106	75 - 125	51.9	104	2	25

Analytical Batch 443973	Client ID	MB443973			LCS443973			LCSD443973			
Prep Batch N/A	GCAL ID	888440			888441			888442			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	10/19/2010 16:54			10/19/2010 17:17			10/19/2010 18:08			
	Matrix	Water			Water			Water			
SM 5310B TOC		Units	mg/L	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
C-012	Total Organic Carbon	0.20U	0.20	50.0	47.8	96	80 - 120	47.1	94	1	25

General Chemistry Quality Control Summary

Analytical Batch 443973	Client ID	U31D201G			887692MS			887692MSD			
Prep Batch N/A	GCAL ID	21010157601			888443			888444			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	10/19/2010 18:51			10/19/2010 19:10			10/19/2010 19:26			
	Matrix	Water			Water			Water			
SM 5310B TOC		**Units**	mg/L	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
C-012	Total Organic Carbon	104	1.0	250	367	105	75 - 125	378	109	3	25

SUBCONTRACT ORDER
Prism Laboratories, Inc.
0100333

/4565/ 210101524

SENDING LABORATORY:

Prism Laboratories, Inc.
P. O. Box 240543
Charlotte, NC 28224-0543
Phone: 800-529-6364
Fax: 704-525-0409
Project Manager: Angela D. Overcash

RECEIVING LABORATORY:

Gulf Coast Analytical Labs, Inc.
7979 GSRI Avenue
Baton Rouge, LA 70820
Phone :(225) 769-4900
Fax: (225) 767-5717

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 0100333-01	**Water**	**Sampled:10/11/10 15:20**	W-1	1
TOC (Sub)	10/22/10 15:00	11/08/10 15:20		
Containers Supplied:				
Sample ID: 0100333-02	**Water**	**Sampled:10/11/10 17:30**	W-2	2
TOC (Sub)	10/22/10 15:00	11/08/10 17:30		
Containers Supplied:				
Sample ID: 0100333-03	**Water**	**Sampled:10/11/10 16:10**	W-3	3
TOC (Sub)	10/22/10 15:00	11/08/10 16:10		
Containers Supplied:				
Sample ID: 0100333-04	**Water**	**Sampled:10/11/10 17:10**	W-3B	4
TOC (Sub)	10/22/10 15:00	11/08/10 17:10		
Containers Supplied:				
Sample ID: 0100333-05	**Water**	**Sampled:10/11/10 14:20**	W-6	5
TOC (Sub)	10/22/10 15:00	11/08/10 14:20		
Containers Supplied:				
Sample ID: 0100333-06	**Water**	**Sampled:10/11/10 11:00**	SS-01	6
TOC (Sub)	10/22/10 15:00	11/08/10 11:00		
Containers Supplied:				

Released By	Date	Received By	Date
[signature]	10-14-10	FedeX	
FedeX		[signature]	10/15/10 09:00 am
Released By	Date	Received By	Date

SUBCONTRACT ORDER

Prism Laboratories, Inc.

0100333

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 0100333-07	**Water**	**Sampled:10/11/10 11:15**	[redacted]	
TOC (Sub)	10/22/10 15:00	11/08/10 11:15		
Containers Supplied:				

Released By	Date	Received By	Date
[signature]	10-14-10	FedeX	
FedeX		[signature]	10/15/10 0900am