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):

Altamont Environmental, Inc.

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

Name: Marta A. VanDussen, EIT Phone: (828) 281-3350

E-mail: mvandussen@altamontenvironmental.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Madison County Closed Solid Waste Facility	389 Long Branch Road Marshall, NC 28753	58-02	.0500	October 18, 2012

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Andrew Moore, P.G. — Project Geologist — (828) 281-3350

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

Signature — 2-12-2013 Date

Affix NC Licensed/ Professional Geologist Seal

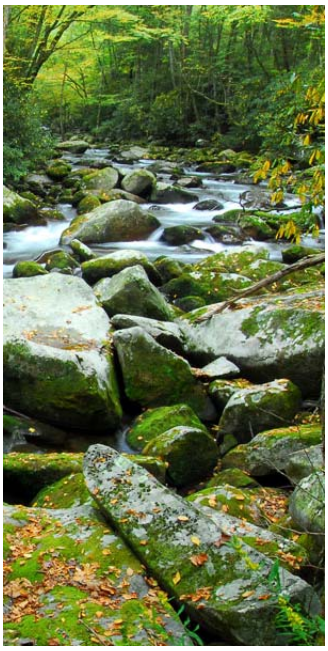
NORTH CAROLINA LICENSED SEAL 2339 GEOLOGIST ANDREW W. MOORE

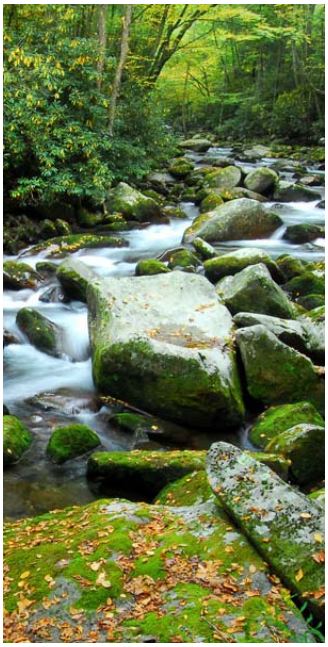
231 Haywood Street, Asheville, North Carolina 28801

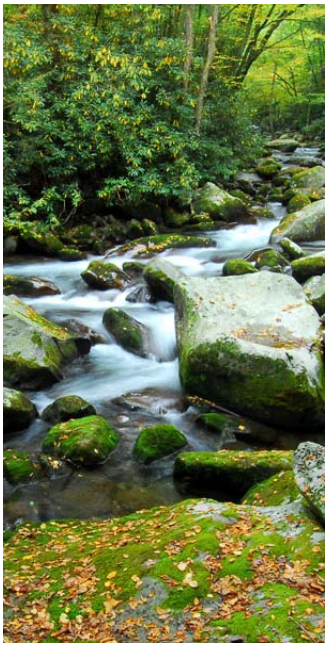
Facility Representative Address

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

Revised 6/2009







ALTAMONT ENVIRONMENTAL, INC.

ENGINEERING & HYDROGEOLOGY

Fall 2012 Semiannual Water Quality Monitoring Report

Madison County Closed Solid Waste Facility

Madison County, North Carolina Permit No. 58-02

February 12, 2013

Prepared for
Madison County, North Carolina
Project Number 2313.1201

Prepared by
Altamont Environmental, Inc.
231 Haywood Street
Asheville, NC 28801
(828) 281-3350

Fall 2012 Semiannual Water Quality Monitoring Report

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February 12, 2013

NORTH CAROLINA LICENSED SEAL 2329 GEOLOGIST ANDREW W. MOORE

AWM

Andrew W. Moore, P.G.
Project Geologist

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1.0 Introduction

The Madison County Solid Waste Department maintains a closed municipal solid waste landfill (closed landfill) located near the intersection of US Highway 25/70 Bypass and Long Branch Road (State Route 1582) in Madison County, North Carolina. The general site location is presented on Figure 1.

The closed landfill is permitted by the North Carolina Department of Environment and Natural Resources (DENR) Division of Waste Management (DWM) under Permit No. 58-02, which requires semiannual monitoring of groundwater and surface water quality.

This report is being submitted in accordance with monitoring requirements for closed landfills as stipulated in the DENR DWM Permit No. 58-02 issued to the Madison County Solid Waste Department and with regulations codified in the DENR Solid Waste Management (SWM) Rules Title 15A, Subchapter 13B, Section .0500, of the North Carolina Administrative Code (15A NCAC 13B.0500).

This report describes the second groundwater and surface water quality monitoring event conducted in 2012.

The water quality monitoring network for the closed landfill consists of four compliance monitoring wells (MW-01 OLD, MW-02 OLD, MW-03 OLD and MW-04 OLD), a background groundwater quality sampling location (BG SPRING OLD), and two surface water sample locations SW-01 OLD (upstream) and SW-02 OLD (downstream) located along Profitt Branch (see Figure 2).

2.0 Methods

Groundwater and surface water samples were collected at the closed landfill by Altamont Environmental, Inc. (Altamont) personnel on October 18, 2012 (see Appendices A and B). Additionally, one domestic drinking water well (DW-01) was sampled as part of this sampling event (Table 1). Approximate sample locations are depicted on Figure 2.

As discussed in a previous report (*Fall 2011 Semiannual Water Quality Monitoring Report* [Altamont, January 6, 2012]), a second domestic drinking water well (DW-02) was abandoned on August 14, 2011. The well abandonment record was included in Appendix C of the January 6, 2012 report.

The water sample collected from the background sampling location BG SPRING OLD is treated as a groundwater sample for the following reasons:

- Groundwater does not discharge to the ground surface at the sampling point.
- Construction of the sample point is similar to construction of a temporary monitoring well or piezometer and is located upslope and upgradient of a springhead.
- The sampling point is constructed of a polyvinyl chloride (PVC) casing extending below ground surface and has a screened interval from which groundwater is collected and recharges.

2.1 Groundwater Purging and Sampling Methods

2.1.1 Monitoring Well Sampling Methods

Prior to collecting groundwater samples from the monitoring wells, the static water level and total depth of each of the wells was measured and recorded in order to calculate the well's volume. At each sample location, an initial round of field parameters consisting of pH, specific conductivity (SC), dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity, and temperature was measured and recorded. Water-level measurements and field parameters are included on the sampling logs, which are included in Appendix A. Groundwater monitoring wells and sampling point BG SPRING OLD were then purged using a new disposable polyethylene bailer. As each consecutive well volume was removed with the bailer, an additional round of groundwater parameters was recorded. Each well was purged until a minimum of three well volumes were removed and field parameters stabilized, or until the well had been bailed dry. Wells that were bailed dry were allowed to recharge prior to collecting a final round of field parameters and a groundwater sample.

2.1.2 Domestic Well Sampling Methods

Altamont personnel sampled one domestic well, DW-01, on October 18, 2012. The well was purged and sampled using the dedicated pump existing in the well. In order to measure field parameters for the sample from domestic well DW-01, groundwater was accessed from a spigot in the basement of Mrs. J. V. Edwards's house because a spigot does not exist at the wellhead. Altamont personnel recorded one round of field parameters prior to purging the well, and after each consecutive purge volume of 10 gallons had been pumped from the well. A final round of field parameters was recorded immediately before collecting the groundwater sample after a minimum of 30 gallons was purged from the well. Field parameters are presented in Appendix A. A groundwater sample was collected from the domestic well using laboratory-supplied sample containers by a technician wearing a new pair of disposable nitrile gloves.

2.1.3 Surface Water Sampling Methods

Surface water samples SW-01 OLD and SW-02 OLD were collected at designated locations along Profitt Branch, which flows adjacent to the southern site boundary in an east-to-west direction (Figure 2). The surface water sample collected at the SW-01 OLD location is assumed to represent surface water quality upstream of the closed landfill, while the surface water sample collected at the SW-02 OLD location is assumed to represent surface water quality downstream of the closed landfill. One set of field parameters, including temperature, pH, SC, DO, ORP, and turbidity, was measured and recorded at each surface water sampling location prior to sample collection (Appendix A). One surface water sample was collected from each surface water sampling location using laboratory-supplied sample containers by a technician wearing a new pair of disposable nitrile gloves.

2.2 Sample Handling, Documentation, and Analysis

Field parameters and additional observations pertaining to water quality sampling at the closed landfill sampling locations are provided on the sampling logs included in Appendix A. Following sample collection, groundwater and surface water samples were immediately placed on ice in sample coolers for transport to Pace Analytical Services, Inc. (Pace), a laboratory certified in North Carolina and located in Asheville, North Carolina. Altamont submitted the water samples collected from the monitoring wells, domestic well, and the surface water sampling locations to Pace for analysis as follows:

- Appendix I volatile organic compounds (VOCs) using US Environmental Protection Agency (EPA) Method 8260
- Eight Resource Conservation and Recovery Act (RCRA) metals using EPA Methods 6010 and 7470

A summary of laboratory analyses performed on samples is included on Table 1. A trip blank, provided by the laboratory, was placed in the sample coolers and was analyzed for Appendix I VOCs. Proper chain-of-custody documentation procedures were followed during collection and transport of each sample. The laboratory analytical reports and chain-of-custody documentation are included in Appendix B. Water-level measurements and field parameters are included in Appendix A and in the Electronic Data Deliverable (EDD) in Appendix C.

3.0 Findings

3.1 Analytical Results

The field parameter data and laboratory analytical results for the groundwater, surface water, and trip blank samples collected at the closed landfill are included in Appendices A and B, respectively, in hard copy, and also in Appendix C in the EDD format specified by the Solid Waste Section (SWS) of the DWM in a memorandum dated October 27, 2006 and its addendum dated February 23, 2007.

As stipulated in the DWM documents referenced above, non-detections were reported at the method detection limit (MDL), and all concentrations exceeding the applicable laboratory-specific MDL were reported and appropriately qualified (Tables 2, 3, and 4). The MDL is the minimum concentration of a substance that can be measured and reported by a laboratory with 99 percent confidence that the analyte concentration is greater than zero. All detections were compared to analyte-specific Solid Waste Section Limits (SWSLs) established by the SWS. The SWSL is the lowest concentration of an analyte in a sample that can be quantitatively determined with suitable precision and accuracy. If the reported concentration is above the laboratory MDL and below the method reporting limit (MRL), the analytical result is qualified by the laboratory as estimated, and is flagged with a "J" qualifier (J-flag). The MRL is the minimum concentration of a target analyte that can be accurately determined by the referenced method. If the reported concentration is greater than the laboratory MRL and less than the SWSL, the analytical result is qualified by Altamont as estimated, and is flagged with a "*J*" qualifier (italicized *J*-flag).

Detected concentrations of analytes in groundwater samples were compared to current groundwater quality standards specified in 15A NCAC 2L .0202, and are referred to as 2L standards. Detected concentrations of analytes in groundwater with no established 2L standard were compared to the interim maximum allowable concentrations (IMACs) for Class GA and GSA groundwater (in accordance with 15A NCAC 02L .0202 [c]) if established. Detections of analytes in surface water samples were compared to the 15A NCAC 2B .0200 surface water quality standards (2B standard). Concentrations below respective SWSLs are not discussed in the text of this report unless they exceed their contaminant-specific 2L or 2B water quality standard, as defined below.

Table 2 presents the summary of laboratory analytical results for detected constituents only. Table 3 presents all analytical results that were above the applicable SWSLs. Table 4 presents only the concentrations of analytes detected in groundwater and/or surface water samples that exceeded their respective 2L standards (including IMACs, if applicable) or 2B standards (surface water).

In the EDD (Appendix C), the identification of a well ("WELL ID") consists of the name of the well prefaced by the un-hyphenated permit number for the facility. For example, monitoring well MW-01 OLD is identified on the tables as 5802-MW01OLD. In the tables, figures and text of this report, however, the identification of a well consists only of the name of the well and does not include the permit number for the facility.

3.1.1 Groundwater Monitoring Wells

The following sections summarize the results of laboratory and field parameter analyses of groundwater samples.

3.1.1.1 RCRA Metals

Four metals (arsenic, barium, chromium, and lead) were detected above their respective MDL in the groundwater samples collected from one or more of the monitoring wells. With the exception of arsenic, concentrations of detected metals were in excess of their respective SWSLs in the groundwater samples collected the monitoring wells. The concentrations of barium, chromium, and lead exceeded their 2L standards in the samples collected from monitoring wells MW-03 OLD and MW-04 OLD. The concentration

of chromium exceeded its 2L standard in the sample collected from monitoring well BG SPRING OLD (Tables 2, 3 and 4).

3.1.1.2 Appendix I VOCs

Seven VOCs (1,1-dichloroethane, 1,4-dichlorobenzene, 2-hexanone, benzene, chlorobenzene, chloroethane, and cis-1,2-dichloroethene) were detected above their respective MDL in one or more monitoring wells. Two VOCs (1,4-dichlorobenzene and chlorobenzene) were detected in excess of their respective SWSLs in one or more monitoring wells (Tables 2 and 3). One VOC (1,4-dichlorobenzene) was detected at a concentration in excess of the 2L standard in the sample collected from monitoring well MW-04 OLD (Table 4).

3.1.1.3 Field Parameters

The pH readings obtained on October 18, 2012 from all of the wells were outside the range for pH (6.5 to 8.5 Standard Units [SU]) specified in 15A NCAC 02L .0202(c) (Tables 2 and 4).

Turbidity values ranged from 10.76 nephelometric turbidity units (NTUs) to 610.8 NTUs (Table 2). The highest concentrations of metals were detected in the wells with the highest turbidity.

3.1.2 Groundwater—Domestic Water Well

No metals were detected in the sample collected from domestic water well DW-01 at concentrations that exceeded 2L standards. Only one metal, barium, was detected (193 micrograms per liter [µg/L]) in the DW-01 groundwater sample at concentration above the SWSL.

No VOCs were detected in the groundwater sample collected from the domestic well. The measured pH was outside (5.91 SU) the 2L standard range of 6.5 to 8.5 SU.

3.1.3 Surface Water

The following sections summarize the results of laboratory and field parameter analyses of surface water samples.

3.1.3.1 RCRA Metals

Two metals (barium and chromium) were detected above their respective MDL in at least one surface water sample (Table 2). Barium was detected in surface water sample SW-01 at a concentration above its SWSL (Table 3). There were no metals detected in surface water samples at concentrations above their 2B standards.

3.1.3.2 Appendix I VOCs

There were no VOCs detected in surface water samples.

3.1.3.3 Field Parameters

The pH readings collected from both surface water sample locations were within the pH 2B standard range established at 6.0 to 9.0 SU. The turbidity in the SW-01 surface water sample was measured above 2B standard established for class C waters.

4.0 Site Hydrogeology

Groundwater level was measured in the four monitoring wells (MW-01 OLD, MW-02 OLD, MW-03 OLD, and MW-04 OLD) at the closed landfill at depths of approximately 6.84 feet below ground surface (ft-bgs), 8.02 ft-bgs, 47.74 ft-bgs, and 49.73 ft-bgs, respectively.

Monitoring wells MW-03 OLD and MW-04 OLD are installed in bedrock east of the Edwards/Madison County property line near the top of a ridge within the landfill parcel. Monitoring wells MW-01 OLD and MW-02 OLD are located in topographic drainages and are screened in the water table aquifer. Locations of monitoring wells at the site are not situated such that groundwater flow direction may be accurately calculated based on data from these wells. However, within the unconsolidated soil, the shallow groundwater is interpreted to generally flow in directions that mimic topography, which is generally southward toward Profitt Branch. The site is situated on the southwest side of a knoll with an elevation of approximately 2,100 feet above mean sea level and drains to Profitt Branch.

5.0 Summary

Altamont completed the second semiannual water quality monitoring event of 2012 at the Madison County Closed Solid Waste Landfill on October 18, 2012.

Tables 2, 3, and 4 of this report, sampling logs found in Appendix A, Pace Reports of Laboratory Analysis found in Appendix B, and the EDD spreadsheet found in Appendix C provide the detailed analytical results and field data related to groundwater and surface water quality at the closed landfill.

5.1 Future Activities

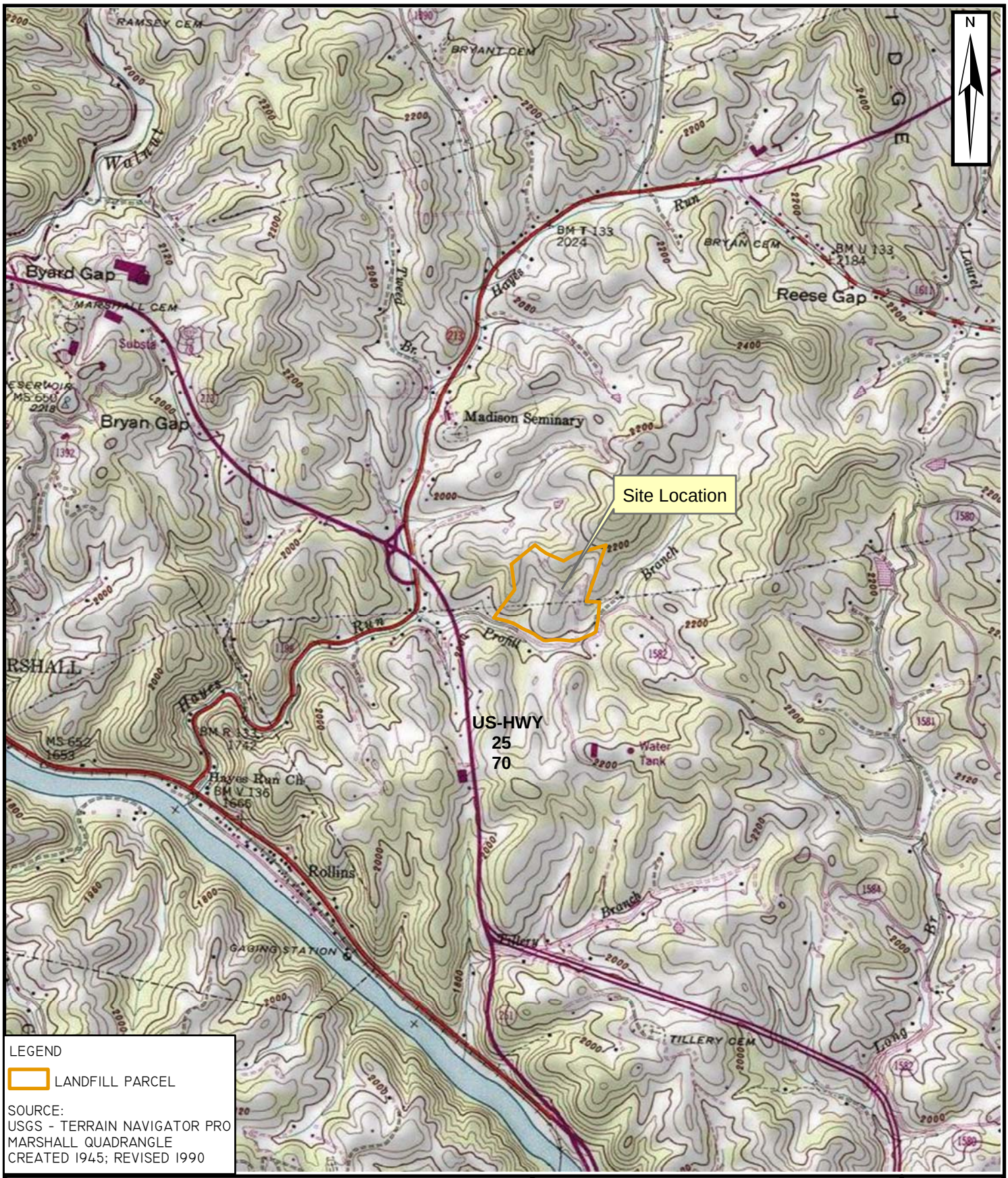
Altamont will continue to measure field parameters and collect water quality samples from groundwater and surface water monitoring points associated with the closed landfill. Water quality samples will be submitted to a North Carolina certified laboratory for analysis for RCRA metals and Appendix I VOCs on a semiannual basis. The next sampling event is scheduled for April 2013.

6.0 References

DENR DWM Solid Waste Section (SWS). October 27, 2006. *New Guidelines for Electronic Submittal of Environmental Monitoring Data*.

DENR DWM SWS. February 23, 2007. *Addendum to October 27, 2006, NC SWS Memorandum Regarding New Guidelines for Electronic Submittal of Environmental Data.*

FIGURES



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SITE LOCATION MAP
MADISON COUNTY
CLOSED MSW LANDFILL
PERMIT No. 58-02

389 LONG BRANCH ROAD
MARSHALL, NC 28753

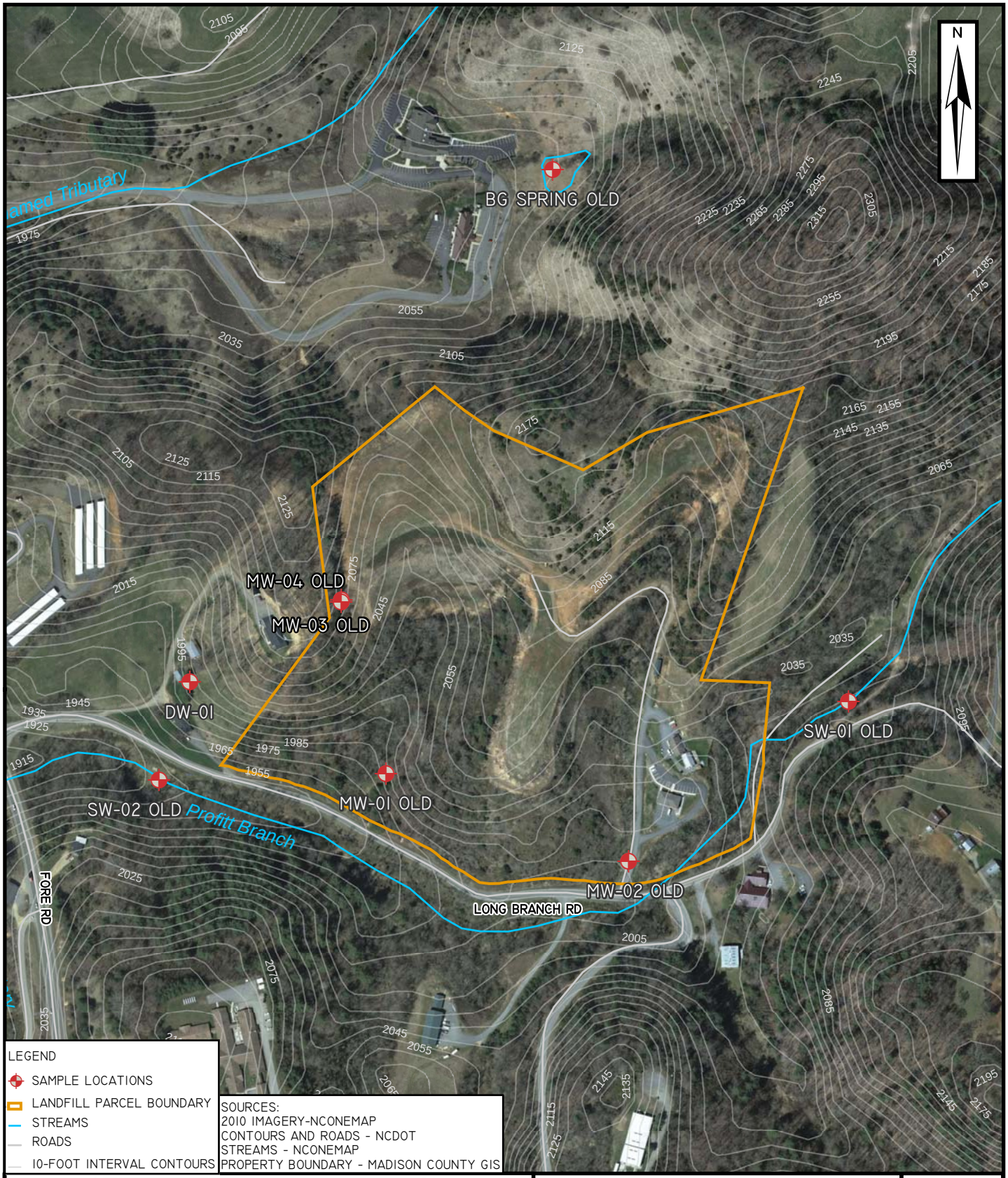
FIGURE

1

DRAWN BY: MARTA VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: MADISON COUNTY
DATE: 12/06/2012

SCALE
0 500 1,000 2,000 FEET

P:\MADISON COUNTY\FIGURES\GIS\GIS USER\MXDS\2012\FALL\5802-FIGURE 1-SITE LOCATION MAP CLOSED LF.MXD



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SAMPLE LOCATION MAP
MADISON COUNTY
CLOSED MSW LANDFILL
PERMIT No. 58-02

389 LONG BRANCH ROAD
MARSHALL, NC 28753

FIGURE

2

DRAWN BY: MARTA VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: MADISON COUNTY
DATE: 01/10/2013

SCALE
0 100 200 400 FEET

P:\MADISON COUNTY\FIGURES\GIS\GIS USER\MXDS\2012\FALL\5802OCT FIGURE2-SAMPLE LOCATION MAP CLOSED.MXD

TABLES

Table 1
Summary of Laboratory Analyses Performed on Samples
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

GROUNDWATER SAMPLES

Sample Name	Collect Date	VOCs	RCRA Metals
		EPA 8260	EPA 6010 EPA 7470
MW-01 OLD	10/18/2012	X	X
MW-02 OLD	10/18/2012	X	X
MW-03 OLD	10/18/2012	X	X
MW-04 OLD	10/18/2012	X	X
BG SPRING OLD	10/18/2012	X	X
DW-01 EDWARDS	10/18/2012	X	X

SURFACE WATER SAMPLES

Sample Name	Collect Date	VOCs	RCRA Metals
		EPA 8260	EPA 6010 EPA 7470
SW-01 OLD	10/18/2012	X	X
SW-02 OLD	10/18/2012	X	X

QUALITY CONTROL SAMPLES

Sample Name	Collect Date	VOCs
		EPA 8260
TRIP BLANK	10/18/2012	X

Notes:
1. VOCs = volatile organic compounds.
2. VOCs analysis include Appendix I constituents per 40 CFR Part 258.
2. RCRA Metals include the following: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver.

Table 2
Summary of Detected Constituents
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

		Metals				Appendix I VOCs							Field Parameters		
	Lab Certification	40				12							5445 (pH only)		
	Lab Method	EPA 6010				EPA 8260									
	Parameter	Arsenic	Barium	Chromium	Lead	1,1-Dichloro ethane	1,4-Dichloro benzene	2-Hexanone	Benzene	Chloro benzene	Chloro ethane	cis-1,2-Dichloro ethene	Dissolved Oxygen	pH	Turbidity
	CAS Number	7440-38-2	7440-39-3	7440-47-3	7439-92-1	75-34-3	106-46-7	591-78-6	71-43-2	108-90-7	75-00-3	156-59-2	7782-44-7	SW320	SW330
	SWS ID	14	15	51	131	75	71	124	16	39	41	78	356	320	330
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	SU	NTU
Sample Name	Collect Date	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
MW-01 OLD	10/18/2012	2.7 U	**262**	**6.5 *J***	4.0 U	0.32 U	0.33 U	0.46 U	0.25 U	0.23 U	0.54 U	0.19 U	**1.83**	**5.80**	**143.8**
MW-02 OLD	10/18/2012	2.7 U	**56.3 *J***	**2.2 *J***	4.0 U	**0.53 *J***	0.33 U	0.46 U	0.25 U	0.23 U	0.54 U	0.19 U	**4.80**	**6.25**	**10.76**
MW-03 OLD	10/18/2012	**5.5 *J***	**1,080**	**34.9**	**20.6**	0.32 U	**4.6**	**0.51 *J***	**0.67 *J***	**4.4**	**1.5 *J***	0.19 U	**4.87**	**6.39**	**311.9**
MW-04 OLD	10/18/2012	**8.3 *J***	**2,020**	**27.3**	**31.2**	0.32 U	**6.5**	0.46 U	**0.33 *J***	**6.0**	**1.5 *J***	**0.27 *J***	**3.18**	**6.13**	**610.8**
BG SPRING OLD	10/18/2012	2.7 U	**213**	**22.6**	4.0 U	0.32 U	0.33 U	0.46 U	0.25 U	0.23 U	0.54 U	0.19 U	**1.08**	**5.57**	**54.77**
DW-01 EDWARDS	10/18/2012	2.7 U	**192**	2.0 U	4.0 U	0.32 U	0.33 U	0.46 U	0.25 U	0.23 U	0.54 U	0.19 U	**3.70**	**5.91**	**4.85**
SW-01 OLD	10/18/2012	2.7 U	**173**	**7.2 *J***	4.0 U	0.32 U	0.33 U	0.46 U	0.25 U	0.23 U	0.54 U	0.19 U	**9.14**	**7.82**	**91.39**
SW-02 OLD	10/18/2012	2.7 U	**51.6 *J***	2.0 U	4.0 U	0.32 U	0.33 U	0.46 U	0.25 U	0.23 U	0.54 U	0.19 U	**10.69**	**7.12**	**9.87**
TRIP BLANK	10/18/2012	NA	NA	NA	NA	0.32 U	0.33 U	0.46 U	0.25 U	0.23 U	0.54 U	0.19 U	NA	NA	NA
	MDL	2.7	2.5	2.0	4.0	0.32	0.33	0.46	0.25	0.23	0.54	0.19	NA	NA	NA
	MRL	5.0	5.0	5.0	5.0	1.0	1.0	5.0	1.0	1.0	1.0	1.0	NA	NA	NA
	SWSL	10	100	10	10	5	1	50	1	3	10	5	NE	NE	NE
	2L	10	700	10	15	6	6	NE	1	50	3,000	70	NE	6.5-8.5	NE
	IMAC	NE	NE	NE	NE	NE	NE	40	NE	NE	NE	NE	NE	NE	NE
	GWPS	NE	NE	NE	NE	NE	NE	40	NE	NE	NE	NE	NE	NE	NE
	2B	10	200,000	50	25	100	100	NE	51	140	NE	720	>5.0	6.0-9.0	50/25

Notes:

1. Only detected constituents are listed on this table. Please refer to Pace Analytical Report of Laboratory Analysis for further details.
2. "Lab Method" is the analytical method used to analyze the constituents.
3. "CAS Number" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
4. "SWS ID" is the Solid Waste Section Identification Number.
5. "Units" are micrograms per liter (µg/L) for analytical results, Standard Units (SU) for pH and nephelometric turbidity units (NTU) for turbidity.
6. "Collect Date" is the date on which the sample was collected in the field.
7. "Result" is analytical data reported by the laboratory or field data collected by Altamont.
8. "MDL" is the method detection limit, which is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
9. "MRL" is the method reporting limit, which is the minimum concentration of a target analyte that can be accurately determined by the referenced method. MRL equals PQL values in the Pace Analytical Reports.
10. "SWSL" is the Solid Waste Section Limit. This limit (identified by DENR) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
11. "U" is a laboratory data qualifier used for parameters not detected at concentrations above MDL.
12. "J" is a laboratory data qualifier used for parameters detected at estimated concentrations above MDL but below MRL and SWSL.
    An italicized "*J*" qualifier is assigned by Altamont to reflect a detected concentration that is greater than MRL and MDL but less than the SWSL.
13. "2L" and "IMAC" (Interim Maximum Allowable Concentration) are groundwater standards from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (Amended Eff January 1, 2010).
14. "GWPS" is the Groundwater Protection Standard pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://portal.ncdenr.org/web/sw/envmonitoringlist (last updated June 13, 2011).
15. "2B" indicates surface water standard per "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," (last amended on May 1, 2007).
    Where no 2B standard exists, the National Criteria per Environmental Protection Agency (EPA) from standards Table (Current as of August 16, 2012) for the most stringent of fresh water and human health was used.
16. "NE" means Not Established. "NA" means Not Applicable. Blank cells indicate that there is no information relevant to the respective row.
17. **Bold** numbers indicate any detection. Grayed cells indicate result in exceedance of the 2L or IMAC standards.

Table 3
Solid Waste Section Limits Exceedances Notification
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	METHOD	MDL	MRL	SWSL	COLLECT DATE
58-02	MW-01OLD	7440-39-3	15	Barium	262	µg/L	EPA 6010	2.5	5.0	100	10/18/2012
58-02	MW-03 OLD	7440-39-3	15	Barium	1,080	µg/L	EPA 6010	2.5	5.0	100	10/18/2012
58-02	MW-03 OLD	7440-47-3	51	Chromium	34.9	µg/L	EPA 6010	2.0	5.0	10	10/18/2012
58-02	MW-03 OLD	7439-92-1	131	Lead	20.6	µg/L	EPA 6010	4.0	5.0	10	10/18/2012
58-02	MW-03 OLD	106-46-7	71	1,4-Dichlorobenzene	4.6	µg/L	EPA 8260	0.33	1.0	1	10/18/2012
58-02	MW-03 OLD	108-90-7	39	Chlorobenzene	4.4	µg/L	EPA 8260	0.23	1.0	3	10/18/2012
58-02	MW-04OLD	7440-39-3	15	Barium	2,020	µg/L	EPA 6010	2.5	5.0	100	10/18/2012
58-02	MW-04OLD	7440-47-3	51	Chromium	27.3	µg/L	EPA 6010	2.0	5.0	10	10/18/2012
58-02	MW-04OLD	7439-92-1	131	Lead	31.2	µg/L	EPA 6010	4.0	5.0	10	10/18/2012
58-02	MW-04OLD	106-46-7	71	1,4-Dichlorobenzene	6.5	µg/L	EPA 8260	0.33	1.0	1	10/18/2012
58-02	MW-04OLD	108-90-7	39	Chlorobenzene	6.0	µg/L	EPA 8260	0.23	1.0	3	10/18/2012
58-02	BG SPRING OLD	7440-39-3	15	Barium	213	µg/L	EPA 6010	2.5	5.0	100	10/18/2012
58-02	BG SPRING OLD	7440-47-3	51	Chromium	22.6	µg/L	EPA 6010	2.0	5.0	10	10/18/2012
58-02	DW-01 EDWARDS	7440-39-3	15	Barium	192	µg/L	EPA 6010	2.5	5.0	100	10/18/2012
58-02	SW-01 OLD	7440-39-3	15	Barium	173	µg/L	EPA 6010	2.5	5.0	100	10/18/2012

Notes:

1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "RESULT" is the analytical data reported by the laboratory.
4. "UNITS" are micrograms per liter (µg/L) for analytical results.
5. "METHOD" is the analytical method used to analyze the constituents.
6. "MDL" is the method detection limit, which is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
7. "MRL" is the method reporting limit, which is the minimum concentration of a target analyte that can be accurately determined by the referenced method.
8. "SWSL" is the Solid Waste Section Limit. This limit (identified by DENR) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
9. "COLLECT DATE" is the date on which the sample was collected in the field.

Table 3
Solid Waste Section Limits Exceedances Notification
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

10. Grayed cells indicate result in exceedance of the 2L or Interim Maximum Allowable Concentration (IMAC) standards or greater than or equal to the Groundwater Protection Standard (GWPS [if no 2L or IMAC exist]).
11. 2L standard and IMAC are from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (Amended Eff January 1, 2010).
12. GWPS is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://portal.ncdenr.org/web/sw/envmonitoringlist (last updated June 13, 2011).

Table 4
Water Quality Standards Exceedances Notification
Madison County Closed Municipal Solid Waste Landfill, Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	METHOD	MDL	MRL	SWSL	WATER QUALITY STANDARDS	COLLECT DATE	CAUSE AND SIGNIFICANCE
GROUNDWATER SAMPLES - 2L STANDARD, IMAC OR GWPS (µg/L)													
58-02	MW-01 OLD	SW320	320	pH	5.80	SU				NE	6.5 - 8.5	10/18/2012	Consistent with historic readings.
58-02	MW-02 OLD	SW320	320	pH	6.25	SU				NE	6.5 - 8.5	10/18/2012	Consistent with historic readings.
58-02	MW-03 OLD	7440-39-3	15	Barium	1,080	µg/L	EPA 6010	2.5	5.0	100	700	10/18/2012	Possibly naturally occuring.
58-02	MW-03 OLD	7440-47-3	51	Chromium	34.9	µg/L	EPA 6010	2.0	5.0	10	10	10/18/2012	Turbidity of sample 311.9 NTUs.
58-02	MW-03 OLD	7439-92-1	131	Lead	20.6	µg/L	EPA 6010	4.0	5.0	10	15	10/18/2012	
58-02	MW-03 OLD	SW320	320	pH	6.39	SU				NE	6.5 - 8.5	10/18/2012	Consistent with historic readings.
58-02	MW-04OLD	7440-39-3	15	Barium	2,020	µg/L	EPA 6010	2.5	5.0	100	700	10/18/2012	Possibly naturally occuring.
58-02	MW-04OLD	7440-47-3	51	Chromium	27.3	µg/L	EPA 6010	2.0	5.0	10	10	10/18/2012	Turbidity of sample 610.8 NTUs.
58-02	MW-04OLD	7439-92-1	131	Lead	31.2	µg/L	EPA 6010	4.0	5.0	10	15	10/18/2012	
58-02	MW-04OLD	106-46-7	71	1,4-Dichlorobenzene	6.5	µg/L	EPA 8260	0.33	1.0	1	6	10/18/2012	Anthropogenic.
58-02	MW-04OLD	SW320	320	pH	6.13	SU				NE	6.5 - 8.5	10/18/2012	Consistent with historic readings.
58-02	BG SPRING OLD	7440-47-3	51	Chromium	22.6	µg/L	EPA 6010	2.0	5.0	10	10	10/18/2012	Possibly naturally occuring. Turbidity of sample 54.77 NTUs.
58-02	BG SPRING OLD	SW320	320	pH	5.57	SU				NE	6.5 - 8.5	10/18/2012	Consistent with historic readings.
58-02	DW-01 EDWARDS	SW320	320	pH	5.91	SU				NE	6.5 - 8.5	10/18/2012	Consistent with historic readings.
SURFACE WATER SAMPLE - 2B STANDARD OR NATIONAL CRITERIA PER EPA FOR CLASS C WATERS (µg/L)													
58-02	SW-01 OLD	SW330	330	Turbidity	91.39	NTU				NE	50/25	10/18/2012	Consistent with historic readings.

Notes:

1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "RESULT" is the analytical data reported by the laboratory.
4. "UNITS" are micrograms per liter (µg/L) for analytical results and standard units (SU) for pH.
5. "METHOD" is the analytical method used to analyze the constituents.
6. "MDL" is the method detection limit, which is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
7. "MRL" is the method reporting limit, which is the minimum concentration of a target analyte that can be accurately determined by the referenced method.
8. "SWSL" is the Solid Waste Section Limit. This limit (identified by DENR) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
9. "WATER QUALITY STANDARD" refers to the 2B standard for surface water, 2L standard, Interim Maximum Allowable Concentration (IMAC), or Groundwater Protection Standard (GWPS) for groundwater.
10. "COLLECT DATE" is the date on which the sample was collected in the field.
11. "NE" means Not Established.
12. 2L standard and IMAC are from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (Amended Eff January 1, 2010).
13. GWPS is pursuant to "15A NCAC 13B .1634," DENR. Current standards were obtained from http://portal.ncdenr.org/web/sw/envmonitoringlist (last updated June 13, 2011).
14. "2B" indicates surface water standard per "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," (last amended on May 1, 2007).

APPENDICES

APPENDIX A

Sampling Logs and
Equipment Documentation
and Instrument Calibration Data Sheet(s)

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Well Sampling Log

Arrive: 932

PROJECT NAME:	Madison County Closed Landfill	DATE:	18-Oct-12
PROJECT NUMBER:	2313	WEATHER:	60s, clear
SAMPLING PERSONNEL:	P. Brooks	SAMPLE TIME:	954

WELL NUMBER:	MW-01-OLD	WELL DEPTH IN FEET (WD):	20.72
WELL DIAMETER:	2"	WATER LEVEL IN FEET (WL):	6.84
TYPE OF CASING:	PVC	LENGTH OF WATER COLUMN:	13.88 FEET
MEASURING POINT:	4	(WD) - (WL) = (LWC)	
FLUSH MOUNT / STICK-UP		ONE CASING VOLUME:	2.3596 GALLONS
COMMENTS:		(LWC) x (WCV)	
		THREE CASING VOLUMES:	7.0788 GALLONS
		ACTUAL VOLUME PURGED:	7.5 GALLONS

WELL CASING VOLUMES (WCV)

1" = 0.041 Gal/Ft 2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

SAMPLE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	TIME	GALLONS PURGED	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	934	0	15.15	284	5.31	6.29	264.5	28.21	
2	941	2.5	15.18	312	4.76	5.47	185.5	59.00	
3	948	5.0	15.14	329	1.90	5.48	187.9	111.2	
4	954	7.5	14.98	323	1.83	5.80	168.1	143.8	
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	1	App I Metals
125 mL PLASTIC		
40 mL GLASS	3	VOCs App. I
1 L GLASS		
OTHER		

PROTECTIVE CASING: ok PAD: ok LOCK: ok VEGETATION: bad ACCESS: bad

Sampling Personnel Signature: [signature] Date: 10/18/12

Notes: °C = degrees Celsius
µS = micro-Siemen
mg/L = milligrams per liter
S.U. = Standard Units
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

QC pH 7.00 @ 9:40 = 7.02

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Well Sampling Log

PROJECT NAME:	Madison County Closed Landfill	DATE:	18-Oct-12
PROJECT NUMBER:	2313	WEATHER:	70s, clear
SAMPLING PERSONNEL:	P. Brooks	SAMPLE TIME:	1034

WELL NUMBER: MW-02-OLD
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: 4
FLUSH MOUNT / STICK-UP
COMMENTS: new gas probe installed very near
bailed well dry after ≈ 9 gal,
took parameters & sample at that point

WELL DEPTH IN FEET (WD): 43.31
WATER LEVEL IN FEET (WL): 8.02
LENGTH OF WATER COLUMN: 35.29 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 5.9993 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 17.9979 GALLONS
ACTUAL VOLUME PURGED: GALLONS

WELL CASING VOLUMES (WCV)
1" = 0.041 Gal/Ft 2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	TIME	GALLONS PURGED	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	1010	0	17.76	193	7.81	6.75	121.8	16.68	
2	1024	6	15.04	188	6.48	6.38	132.8	12.92	
3	1034	12.9	14.45	186	4.80	6.25	142.1	10.76	
4		18							
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	1	App I Metals
125 mL PLASTIC		
40 mL GLASS	3	App I VOCs
1 L GLASS		
OTHER		

PROTECTIVE CASING: ok PAD: ok LOCK: ~~ok~~ bad VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: Date: 10/18/12

Notes: °C = degrees Celsius
µS = micro-Siemen
mg/L = milligrams per liter
S.U. = Standard Units
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

very slow recharge

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Well Sampling Log

PROJECT NAME:	Madison County Closed Landfill	DATE:	18-Oct-12
PROJECT NUMBER:	2313	WEATHER:	60s, cloudy, windy
SAMPLING PERSONNEL:	P. Brooks	SAMPLE TIME:	1059

WELL NUMBER: MW-03-OLD
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: 4
FLUSH MOUNT / STICK-UP
COMMENTS: well bailed dry after 1.5 gallons collected parameters and samples then

WELL DEPTH IN FEET (WD): 52.25
WATER LEVEL IN FEET (WL): 47.74
LENGTH OF WATER COLUMN: 4.51 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 0.7667 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 2.3001 GALLONS
ACTUAL VOLUME PURGED: GALLONS

WELL CASING VOLUMES (WCV)
1" = 0.041 Gal/Ft 2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	TIME	GALLONS PURGED	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	1051	0	14.68	966	1.94	6.22	-30.5	7.93	
2	1056	0.80	14.51	976	2.15	6.19	-29.0	280.7	
3	1059	1.5	14.72	984	4.87	6.39	-37.1	311.9	
4									
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	1	App I Metals
125 mL PLASTIC		
40 mL GLASS	3	App I VOCs
1 L GLASS		
OTHER		

PROTECTIVE CASING: ok PAD: ok LOCK: ok VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: Date: 10/18/12

Notes: °C = degrees Celsius
µS = micro-Siemen
mg/L = milligrams per liter
S.U. = Standard Units
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

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Well Sampling Log

PROJECT NAME:	Madison County Closed Landfill	DATE:	18-Oct-12
PROJECT NUMBER:	2313	WEATHER:	70s cloudy, windy
SAMPLING PERSONNEL:	P. Brooks	SAMPLE TIME:	1153

WELL NUMBER:	MW-04-OLD	WELL DEPTH IN FEET (WD):	93.08
WELL DIAMETER:	2"	WATER LEVEL IN FEET (WL):	49.73
TYPE OF CASING:	PVC	LENGTH OF WATER COLUMN:	43.35 FEET
MEASURING POINT:	4	(WD) - (WL) = (LWC)	
FLUSH MOUNT / STICK-UP	4'	ONE CASING VOLUME:	7.3695 GALLONS
COMMENTS:	well bailed dry at about 10 gallons collected parameters and samples at that point got very grey and cloudy	(LWC) x (WCV) THREE CASING VOLUMES:	22.1085 GALLONS
		ACTUAL VOLUME PURGED:	10 GALLONS

WELL CASING VOLUMES (WCV)

1" = 0.041 Gal/Ft 2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

SAMPLE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	TIME	GALLONS PURGED	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	1112	0	14.71	808	2.00	6.23	24.7	19.10	
2	1138	7.5	14.81	815	1.73	6.00	93.7	163.1	
3	1153	10	14.70	834	3.18	6.13	75.4	~~75.4~~ 610.8	DTW = 92.17
4									
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	1	App I Metals
125 mL PLASTIC		
40 mL GLASS	3	App I VOCs
1 L GLASS		
OTHER		

PROTECTIVE CASING: ok PAD: ok LOCK: none added a lock VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: Date: 10/18/12

Notes: °C = degrees Celsius
µS = micro-Siemen
mg/L = milligrams per liter
S.U. = Standard Units
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

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Well Sampling Log

PROJECT NAME: Madison County Closed Landfill
PROJECT NUMBER: 2313
SAMPLING PERSONNEL: P. Brooks

DATE: 18-Oct-12
WEATHER: 1249
SAMPLE TIME: 60s, cloudy 1249

WELL NUMBER: BG Spring - OLD
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: 4
FLUSH MOUNT / STICK-UP 4'
COMMENTS:

WELL DEPTH IN FEET (WD): 14.20
WATER LEVEL IN FEET (WL): 9.84
LENGTH OF WATER COLUMN : 4.36 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 0.7412 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 2.2236 GALLONS
ACTUAL VOLUME PURGED: 2.5 GALLONS

WELL CASING VOLUMES (WCV)
1" = 0.041 Gal/Ft 2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	TIME 1235	GALLONS PURGED	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1		0	16.72	136	3.55	5.94	60.6	32.39	
2	1239	0.75	16.32	140	1.21	5.54	34.9	21.96	
3	1242	1.5	16.05	143	2.75	5.39	43.4	39.24	
4	1249	2.5	16.09	149	1.08	5.51	46.8	54.77	
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	1	Appl Metals
125 mL PLASTIC		
40 mL GLASS	3	Appl VOCs
1 L GLASS		
OTHER		

PROTECTIVE CASING: ok PAD: ok LOCK: ok VEGETATION: bad ACCESS: bad

Sampling Personnel Signature: Date: 10/18/12

Notes: °C = degrees Celsius
µS = micro-Siemen
mg/L = milligrams per liter
S.U. = Standard Units
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

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Well Sampling Log

PROJECT NAME: Madison County Closed Landfill
PROJECT NUMBER: 2313
SAMPLING PERSONNEL: P. Brooks

DATE: 18-Oct-12
WEATHER: 60s, cloudy
SAMPLE TIME: 1334

WELL NUMBER: DW-01 EDWARDS
WELL DIAMETER:
TYPE OF CASING:
MEASURING POINT:
FLUSH MOUNT / STICK-UP
COMMENTS: taken from spigot from indoor well

WELL DEPTH IN FEET (WD):
WATER LEVEL IN FEET (WL):
LENGTH OF WATER COLUMN : FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: GALLONS
ACTUAL VOLUME PURGED: GALLONS

WELL CASING VOLUMES (WCV)
1" = 0.041 Gal/Ft 2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER: grab
SAMPLE METHOD: BAILER-DISP. BAILER-TEFLON DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER: grab

READING	TIME	GALLONS PURGED	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	1317	Ø	16.03	183	3.64	6.20	107.6	7.23	
2	1322	10	16.08	182	3.67 [6.01]	6.08	131.1	9.29	
3	1328	20	15.51	181	3.61	5.98	131.8	6.72	
4	1334	30	15.52	181	3.70	5.91	131.9	4.85	
5									
6									
7									
8									
9									
10									

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	1	App I Metals
125 mL PLASTIC		
40 mL GLASS	3	App I VOCs
1 L GLASS		
OTHER		

PROTECTIVE CASING: / PAD: / LOCK: / VEGETATION: / ACCESS: ok

Sampling Personnel Signature: Date: 10/18/12

Notes: °C = degrees Celsius
µS = micro-Siemen
mg/L = milligrams per liter
S.U. = Standard Units
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

ALTAMONT ENVIRONMENTAL, INC.
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Surface Water Sampling Log

PROJECT NAME: Madison County Closed Landfill
DATE: 18-Oct-12
PROJECT NUMBER: 2313
WEATHER: 60s cloudy, windy
SAMPLING PERSONNEL: P. Brooks

SAMPLE NAME: SW-01-OLD

COMMENTS: taken under bridge down road w/ green gate; upstream of closed landfill; low volume

SAMPLE METHOD: GRAB SYRINGE PUMP BAILER-DISP. OTHER:

TIME	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1211	~~14.~~ 13.67	197	9.14	7.82	14.7	91.39	

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	1	Appl Metals
125 mL PLASTIC		
40 mL GLASS	3	VOCs App. I
1 L GLASS		
OTHER		

VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: [signature] Date: 10/18/12

Notes: °C = degrees Celsius
mS = micro-Siemen per cubic centimeter
mg/L = milligrams per liter
S.U. = standard units
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

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Surface Water Sampling Log

PROJECT NAME: Madison Co. Closed Landfill
DATE: 10/18/12
PROJECT NUMBER: 2313
WEATHER: 60s, cloudy
SAMPLING PERSONNEL: P Books

SAMPLE NAME: SW-02-DLD

COMMENTS: taken downstream of closed landfill

SAMPLE METHOD: GRAB SYRINGE PUMP BAILER-DISP. OTHER:

TIME	TEMP (°C)	SPECIFIC COND. (µS)	DISSOLVED OXYGEN (mg/L)	pH (S.U.) *report to 0.1 S.U.*	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1305	14.35	184	10.69	7.12	29.7	9.87	

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
500 mL PLASTIC		
250 mL PLASTIC	1	App I Metals
125 mL PLASTIC		
40 mL GLASS	3	App I VOCs
1 L GLASS		
OTHER		

VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: [signature] Date: 10/18/12

Notes: °C = degrees Celsius
mS = micro-Siemen per cubic centimeter
mg/L = milligrams per liter
S.U. = standard units
mV = millivolt
NTU = nephelometric turbidity units
Samples are analyzed immediately upon collection.

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Equipment Documentation & Instrument Calibration Data Sheet

		Calibration Documentation	
Project Name:	Madison County Closed Landfill	Person Conducting Calibration:	P. Brooks
Project Number:	2313	Date of Calibration:	10/18/2012
Project Location:	Marshall, NC	Date of Field Measurements:	10/18/2012

Equipment Documentation

Equipment or meters used to take measurements (e.g. water level meters, survey equipment, etc.):

Equipment Type	Serial Number	Brand	Date of Use
150-ft Water Level	26154	Solinist	
150-ft Water Level	22754	Solinist	
150-ft Water Level	150	Testwell	10/18/12
150-ft Drawdown	MP30-1527	QED	
Other			

Micro TPW Turbidity Meter

Calibration Standards Exp Date	Instrument Serial #	Instrument Reading		
		0.02 NTU	10.0 NTU	1000 NTU
8/13	200601045	Initial: ~~9.16~~ 0.16	Initial: 10.56	Initial: 921.6
		Cal: 0.02	Cal: 10.0	Cal: 1000
		Time: 834	Time: 833	Time: 831

YSI 556 Multiparameter Meter

Instrument Serial Number	~~07D100979~~ Enviro Equip Rental # 09G100136						
	Instrument Readings						Calibration Expiration Date
Dissolved Oxygen	Initial: 9.18	Cal: 8.97	mmHg: 760	Time: 835			NA
QC*	AM Time: ~~844~~	Meas: ~~7.02~~	Mid Day Time:	Check:	PM Time:	Check:	NA
pH 7 S.U. *report to 0.1 S.U.*	Initial: 7.04	pHmV:	Cal: 7.00	pHmV:	Time: 818		9/14
pH 4 S.U. *report to 0.1 S.U.*	Initial: 4.01	pHmV:	Cal: 4.00	pHmV:	Time: 822		4/13
pH 10 S.U. *report to 0.1 S.U.*	Initial: 10.02	pHmV:	Cal: 10.00	pHmV:	Time: 825		5/13
QC* pH 7 S.U. *report to 0.1 S.U.*	AM Time: 849	Meas: 7.03	Mid Day Time:	Check:	PM Time:	Check:	
Spec. Cond. 1413/447/84/23 mS**	Initial: 99	Cal: 100	Time: 815				7/13
QC* ~~84~~ mS 100	AM Time: ~~848~~	Meas: 99	Mid Day Time:	Check:	PM Time:	Check:	
ORP ~~240~~ mV 258	Initial: 256.2	Cal: 258.0	Time: 845				10/12/12 ← mix date

Comments:

Signature: Date: 10/18/12

Notes:

1. Electronic equipment calibrated according to the manufacturer's operation manual.
2. Specific Conductivity should be calibrated according to values representative of historic range.
3. Order of Calibration is as follows : Specific Conductivity, pH 7, pH 4, pH 10, ORP, QC checks.
4. QC Acceptable Ranges: pH +/- 0.1 S.U. and Specific Conductivity 10% of the true value. If readings are out of these ranges, meter needs to be recalibrated.
5. * Indicates that a QC check must be performed in the morning, afternoon, and the end of the day, or every four hours.
6. ** Indicates to choose a Specific Conductivity buffer of 1413, 447, 84, or 23 mS which is closest to historical readings from the project location.

APPENDIX B

Report of Laboratory Analysis and Chain-of-Custody Documentation

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(704)875-9092

October 31, 2012

Mr. Joel Lenk
Altamont Environmental
321 Haywood Street
Asheville, NC 28801

RE: Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Dear Mr. Lenk:
Enclosed are the analytical results for sample(s) received by the laboratory on October 18, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92135735001	**MW-01-OLD**	Water	10/18/12 09:54	10/18/12 14:52
92135735002	**MW-02-OLD**	Water	10/18/12 10:34	10/18/12 14:52
92135735003	**MW-03-OLD**	Water	10/18/12 10:59	10/18/12 14:52
92135735004	**MW-04-OLD**	Water	10/18/12 11:53	10/18/12 14:52
92135735005	**BG Spring-OLD**	Water	10/18/12 12:49	10/18/12 14:52
92135735006	**SW-01-OLD**	Water	10/18/12 12:11	10/18/12 14:52
92135735007	**SW-02-OLD**	Water	10/18/12 13:05	10/18/12 14:52
92135735008	**DW-01 EDWARDS**	Water	10/18/12 13:34	10/18/12 14:52
92135735009	**TRIP BLANK**	Water	10/18/12 00:00	10/18/12 14:52

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SAMPLE ANALYTE COUNT

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92135735001	**MW-01-OLD**	EPA 6010	JDA	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92135735002	**MW-02-OLD**	EPA 6010	JDA	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92135735003	**MW-03-OLD**	EPA 6010	JDA	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92135735004	**MW-04-OLD**	EPA 6010	JMW	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92135735005	**BG Spring-OLD**	EPA 6010	JDA	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92135735006	**SW-01-OLD**	EPA 6010	JDA	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92135735007	**SW-02-OLD**	EPA 6010	JDA	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92135735008	**DW-01 EDWARDS**	EPA 6010	JDA	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	51	PASI-C
92135735009	**TRIP BLANK**	EPA 8260	MCK	51	PASI-C

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: MW-01-OLD **Lab ID: 92135735001** Collected: 10/18/12 09:54 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	10/24/12 16:55	10/27/12 15:09	7440-38-2	
Barium	**262**	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:09	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	10/24/12 16:55	10/27/12 15:09	7440-43-9	
Chromium	**6.5**	ug/L	5.0	2.0	1	10/24/12 16:55	10/27/12 15:09	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/24/12 16:55	10/27/12 15:09	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	10/24/12 16:55	10/27/12 15:09	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:09	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	10/26/12 17:30	10/29/12 14:41	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/27/12 18:06	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/27/12 18:06	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/27/12 18:06	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/27/12 18:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/27/12 18:06	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/27/12 18:06	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/27/12 18:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/27/12 18:06	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/27/12 18:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/27/12 18:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/27/12 18:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/27/12 18:06	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/27/12 18:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/27/12 18:06	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/27/12 18:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/27/12 18:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/27/12 18:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/27/12 18:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/27/12 18:06	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/27/12 18:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/27/12 18:06	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/27/12 18:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/27/12 18:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/27/12 18:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/27/12 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/27/12 18:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/27/12 18:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/27/12 18:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/27/12 18:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/27/12 18:06	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/27/12 18:06	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/27/12 18:06	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/27/12 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/27/12 18:06	108-10-1	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: MW-01-OLD **Lab ID: 92135735001** Collected: 10/18/12 09:54 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/27/12 18:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/27/12 18:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/27/12 18:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/27/12 18:06	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/27/12 18:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/27/12 18:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/27/12 18:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/27/12 18:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/27/12 18:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/27/12 18:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/27/12 18:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/27/12 18:06	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/27/12 18:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/27/12 18:06	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		10/27/12 18:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/27/12 18:06	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		10/27/12 18:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: MW-02-OLD **Lab ID: 92135735002** Collected: 10/18/12 10:34 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	10/24/12 16:55	10/27/12 15:13	7440-38-2	
Barium	**56.3**	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:13	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	10/24/12 16:55	10/27/12 15:13	7440-43-9	
Chromium	**2.2J**	ug/L	5.0	2.0	1	10/24/12 16:55	10/27/12 15:13	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/24/12 16:55	10/27/12 15:13	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	10/24/12 16:55	10/27/12 15:13	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:13	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	10/26/12 17:30	10/29/12 14:44	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/27/12 18:21	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/27/12 18:21	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/27/12 18:21	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/27/12 18:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/27/12 18:21	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/27/12 18:21	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/27/12 18:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/27/12 18:21	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/27/12 18:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/27/12 18:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/27/12 18:21	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/27/12 18:21	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/27/12 18:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/27/12 18:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/27/12 18:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/27/12 18:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/27/12 18:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/27/12 18:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/27/12 18:21	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/27/12 18:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/27/12 18:21	110-57-6	
1,1-Dichloroethane	**0.53J**	ug/L	1.0	0.32	1		10/27/12 18:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/27/12 18:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/27/12 18:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/27/12 18:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/27/12 18:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/27/12 18:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/27/12 18:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/27/12 18:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/27/12 18:21	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/27/12 18:21	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/27/12 18:21	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/27/12 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/27/12 18:21	108-10-1	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: MW-02-OLD **Lab ID: 92135735002** Collected: 10/18/12 10:34 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/27/12 18:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/27/12 18:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/27/12 18:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/27/12 18:21	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/27/12 18:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/27/12 18:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/27/12 18:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/27/12 18:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/27/12 18:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/27/12 18:21	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/27/12 18:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/27/12 18:21	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/27/12 18:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/27/12 18:21	460-00-4	
Dibromofluoromethane (S)	91	%	70-130		1		10/27/12 18:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/27/12 18:21	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/27/12 18:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: MW-03-OLD **Lab ID: 92135735003** Collected: 10/18/12 10:59 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.5**	ug/L	5.0	2.7	1	10/24/12 16:55	10/27/12 15:16	7440-38-2	
Barium	**1080**	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:16	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	10/24/12 16:55	10/27/12 15:16	7440-43-9	
Chromium	**34.9**	ug/L	5.0	2.0	1	10/24/12 16:55	10/27/12 15:16	7440-47-3	
Lead	**20.6**	ug/L	5.0	4.0	1	10/24/12 16:55	10/27/12 15:16	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	10/24/12 16:55	10/27/12 15:16	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:16	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	10/26/12 17:30	10/29/12 14:47	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/27/12 18:37	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/27/12 18:37	107-13-1	
Benzene	**0.67J**	ug/L	1.0	0.25	1		10/27/12 18:37	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/27/12 18:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/27/12 18:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/27/12 18:37	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/27/12 18:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/27/12 18:37	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/27/12 18:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/27/12 18:37	56-23-5	
Chlorobenzene	**4.4**	ug/L	1.0	0.23	1		10/27/12 18:37	108-90-7	
Chloroethane	**1.5**	ug/L	1.0	0.54	1		10/27/12 18:37	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/27/12 18:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/27/12 18:37	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/27/12 18:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/27/12 18:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/27/12 18:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/27/12 18:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/27/12 18:37	95-50-1	
1,4-Dichlorobenzene	**4.6**	ug/L	1.0	0.33	1		10/27/12 18:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/27/12 18:37	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/27/12 18:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/27/12 18:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/27/12 18:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/27/12 18:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/27/12 18:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/27/12 18:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/27/12 18:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/27/12 18:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/27/12 18:37	100-41-4	
2-Hexanone	**0.51J**	ug/L	5.0	0.46	1		10/27/12 18:37	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/27/12 18:37	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/27/12 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/27/12 18:37	108-10-1	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: MW-03-OLD **Lab ID: 92135735003** Collected: 10/18/12 10:59 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/27/12 18:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/27/12 18:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/27/12 18:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/27/12 18:37	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/27/12 18:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/27/12 18:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/27/12 18:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/27/12 18:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/27/12 18:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/27/12 18:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/27/12 18:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/27/12 18:37	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/27/12 18:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/27/12 18:37	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		10/27/12 18:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/27/12 18:37	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/27/12 18:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: MW-04-OLD **Lab ID: 92135735004** Collected: 10/18/12 11:53 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**8.3**	ug/L	5.0	2.7	1	10/24/12 16:55	10/25/12 23:41	7440-38-2	
Barium	**2020**	ug/L	5.0	2.5	1	10/24/12 16:55	10/25/12 23:41	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	10/24/12 16:55	10/28/12 21:00	7440-43-9	
Chromium	**27.3**	ug/L	5.0	2.0	1	10/24/12 16:55	10/28/12 21:00	7440-47-3	
Lead	**31.2**	ug/L	5.0	4.0	1	10/24/12 16:55	10/25/12 23:41	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	10/24/12 16:55	10/25/12 23:41	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	10/24/12 16:55	10/25/12 23:41	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	10/26/12 17:30	10/29/12 14:49	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/27/12 18:53	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/27/12 18:53	107-13-1	
Benzene	**0.33J**	ug/L	1.0	0.25	1		10/27/12 18:53	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/27/12 18:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/27/12 18:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/27/12 18:53	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/27/12 18:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/27/12 18:53	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/27/12 18:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/27/12 18:53	56-23-5	
Chlorobenzene	**6.0**	ug/L	1.0	0.23	1		10/27/12 18:53	108-90-7	
Chloroethane	**1.5**	ug/L	1.0	0.54	1		10/27/12 18:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/27/12 18:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/27/12 18:53	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/27/12 18:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/27/12 18:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/27/12 18:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/27/12 18:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/27/12 18:53	95-50-1	
1,4-Dichlorobenzene	**6.5**	ug/L	1.0	0.33	1		10/27/12 18:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/27/12 18:53	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/27/12 18:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/27/12 18:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/27/12 18:53	75-35-4	
cis-1,2-Dichloroethene	**0.27J**	ug/L	1.0	0.19	1		10/27/12 18:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/27/12 18:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/27/12 18:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/27/12 18:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/27/12 18:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/27/12 18:53	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/27/12 18:53	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/27/12 18:53	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/27/12 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/27/12 18:53	108-10-1	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: MW-04-OLD **Lab ID: 92135735004** Collected: 10/18/12 11:53 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/27/12 18:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/27/12 18:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/27/12 18:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/27/12 18:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/27/12 18:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/27/12 18:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/27/12 18:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/27/12 18:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/27/12 18:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/27/12 18:53	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/27/12 18:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/27/12 18:53	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/27/12 18:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/27/12 18:53	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		10/27/12 18:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/27/12 18:53	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		10/27/12 18:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: BG Spring-OLD **Lab ID: 92135735005** Collected: 10/18/12 12:49 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	10/24/12 16:55	10/27/12 15:33	7440-38-2	
Barium	**213**	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:33	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	10/24/12 16:55	10/27/12 15:33	7440-43-9	
Chromium	**22.6**	ug/L	5.0	2.0	1	10/24/12 16:55	10/27/12 15:33	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/24/12 16:55	10/27/12 15:33	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	10/24/12 16:55	10/27/12 15:33	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:33	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	10/26/12 17:30	10/29/12 14:57	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/27/12 19:08	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/27/12 19:08	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/27/12 19:08	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/27/12 19:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/27/12 19:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/27/12 19:08	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/27/12 19:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/27/12 19:08	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/27/12 19:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/27/12 19:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/27/12 19:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/27/12 19:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/27/12 19:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/27/12 19:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/27/12 19:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/27/12 19:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/27/12 19:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/27/12 19:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/27/12 19:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/27/12 19:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/27/12 19:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/27/12 19:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/27/12 19:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/27/12 19:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/27/12 19:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/27/12 19:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/27/12 19:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/27/12 19:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/27/12 19:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/27/12 19:08	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/27/12 19:08	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/27/12 19:08	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/27/12 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/27/12 19:08	108-10-1	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: BG Spring-OLD **Lab ID: 92135735005** Collected: 10/18/12 12:49 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/27/12 19:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/27/12 19:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/27/12 19:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/27/12 19:08	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/27/12 19:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/27/12 19:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/27/12 19:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/27/12 19:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/27/12 19:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/27/12 19:08	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/27/12 19:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/27/12 19:08	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/27/12 19:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/27/12 19:08	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		10/27/12 19:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/27/12 19:08	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/27/12 19:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: SW-01-OLD **Lab ID: 92135735006** Collected: 10/18/12 12:11 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	10/24/12 16:55	10/27/12 15:36	7440-38-2	
Barium	**173**	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:36	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	10/24/12 16:55	10/27/12 15:36	7440-43-9	
Chromium	**7.2**	ug/L	5.0	2.0	1	10/24/12 16:55	10/27/12 15:36	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/24/12 16:55	10/27/12 15:36	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	10/24/12 16:55	10/27/12 15:36	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:36	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	10/26/12 17:30	10/29/12 15:00	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/27/12 19:24	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/27/12 19:24	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/27/12 19:24	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/27/12 19:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/27/12 19:24	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/27/12 19:24	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/27/12 19:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/27/12 19:24	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/27/12 19:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/27/12 19:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/27/12 19:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/27/12 19:24	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/27/12 19:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/27/12 19:24	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/27/12 19:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/27/12 19:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/27/12 19:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/27/12 19:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/27/12 19:24	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/27/12 19:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/27/12 19:24	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/27/12 19:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/27/12 19:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/27/12 19:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/27/12 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/27/12 19:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/27/12 19:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/27/12 19:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/27/12 19:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/27/12 19:24	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/27/12 19:24	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/27/12 19:24	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/27/12 19:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/27/12 19:24	108-10-1	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: SW-01-OLD **Lab ID: 92135735006** Collected: 10/18/12 12:11 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/27/12 19:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/27/12 19:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/27/12 19:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/27/12 19:24	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/27/12 19:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/27/12 19:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/27/12 19:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/27/12 19:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/27/12 19:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/27/12 19:24	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/27/12 19:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/27/12 19:24	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/27/12 19:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/27/12 19:24	460-00-4	
Dibromofluoromethane (S)	91	%	70-130		1		10/27/12 19:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/27/12 19:24	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/27/12 19:24	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: SW-02-OLD **Lab ID: 92135735007** Collected: 10/18/12 13:05 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	10/24/12 16:55	10/27/12 15:39	7440-38-2	
Barium	**51.6**	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:39	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	10/24/12 16:55	10/27/12 15:39	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	10/24/12 16:55	10/27/12 15:39	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/24/12 16:55	10/27/12 15:39	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	10/24/12 16:55	10/27/12 15:39	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:39	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	10/26/12 17:30	10/29/12 15:07	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/27/12 19:40	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/27/12 19:40	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/27/12 19:40	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/27/12 19:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/27/12 19:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/27/12 19:40	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/27/12 19:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/27/12 19:40	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/27/12 19:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/27/12 19:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/27/12 19:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/27/12 19:40	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/27/12 19:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/27/12 19:40	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/27/12 19:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/27/12 19:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/27/12 19:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/27/12 19:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/27/12 19:40	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/27/12 19:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/27/12 19:40	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/27/12 19:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/27/12 19:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/27/12 19:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/27/12 19:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/27/12 19:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/27/12 19:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/27/12 19:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/27/12 19:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/27/12 19:40	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/27/12 19:40	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/27/12 19:40	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/27/12 19:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/27/12 19:40	108-10-1	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: SW-02-OLD **Lab ID: 92135735007** Collected: 10/18/12 13:05 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/27/12 19:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/27/12 19:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/27/12 19:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/27/12 19:40	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/27/12 19:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/27/12 19:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/27/12 19:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/27/12 19:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/27/12 19:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/27/12 19:40	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/27/12 19:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/27/12 19:40	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/27/12 19:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/27/12 19:40	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		10/27/12 19:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/27/12 19:40	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		10/27/12 19:40	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: DW-01 EDWARDS **Lab ID: 92135735008** Collected: 10/18/12 13:34 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	10/24/12 16:55	10/27/12 15:42	7440-38-2	
Barium	**192**	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:42	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	10/24/12 16:55	10/27/12 15:42	7440-43-9	
Chromium	ND	ug/L	5.0	2.0	1	10/24/12 16:55	10/27/12 15:42	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	10/24/12 16:55	10/27/12 15:42	7439-92-1	
Selenium	ND	ug/L	10.0	5.0	1	10/24/12 16:55	10/27/12 15:42	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	10/24/12 16:55	10/27/12 15:42	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	10/26/12 17:30	10/29/12 15:10	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/27/12 19:56	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/27/12 19:56	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/27/12 19:56	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/27/12 19:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/27/12 19:56	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/27/12 19:56	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/27/12 19:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/27/12 19:56	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/27/12 19:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/27/12 19:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/27/12 19:56	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/27/12 19:56	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/27/12 19:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/27/12 19:56	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/27/12 19:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/27/12 19:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/27/12 19:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/27/12 19:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/27/12 19:56	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/27/12 19:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/27/12 19:56	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/27/12 19:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/27/12 19:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/27/12 19:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/27/12 19:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/27/12 19:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/27/12 19:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/27/12 19:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/27/12 19:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/27/12 19:56	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/27/12 19:56	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/27/12 19:56	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/27/12 19:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/27/12 19:56	108-10-1	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: DW-01 EDWARDS **Lab ID: 92135735008** Collected: 10/18/12 13:34 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Styrene	ND	ug/L	1.0	0.26	1		10/27/12 19:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/27/12 19:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/27/12 19:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/27/12 19:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/27/12 19:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/27/12 19:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/27/12 19:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/27/12 19:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/27/12 19:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/27/12 19:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/27/12 19:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/27/12 19:56	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/27/12 19:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/27/12 19:56	460-00-4	
Dibromofluoromethane (S)	88	%	70-130		1		10/27/12 19:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/27/12 19:56	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/27/12 19:56	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: TRIP BLANK **Lab ID: 92135735009** Collected: 10/18/12 00:00 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/27/12 20:12	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/27/12 20:12	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/27/12 20:12	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/27/12 20:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/27/12 20:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/27/12 20:12	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/27/12 20:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/27/12 20:12	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/27/12 20:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/27/12 20:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/27/12 20:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/27/12 20:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/27/12 20:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/27/12 20:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/27/12 20:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/27/12 20:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/27/12 20:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/27/12 20:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/27/12 20:12	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/27/12 20:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/27/12 20:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/27/12 20:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/27/12 20:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/27/12 20:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/27/12 20:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/27/12 20:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/27/12 20:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/27/12 20:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/27/12 20:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/27/12 20:12	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/27/12 20:12	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/27/12 20:12	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/27/12 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/27/12 20:12	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/27/12 20:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/27/12 20:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/27/12 20:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/27/12 20:12	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/27/12 20:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/27/12 20:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/27/12 20:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/27/12 20:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/27/12 20:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/27/12 20:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/27/12 20:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/27/12 20:12	75-01-4	

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ANALYTICAL RESULTS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Sample: TRIP BLANK **Lab ID: 92135735009** Collected: 10/18/12 00:00 Received: 10/18/12 14:52 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/27/12 20:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/27/12 20:12	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		10/27/12 20:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/27/12 20:12	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/27/12 20:12	2037-26-5	

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QUALITY CONTROL DATA

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

QC Batch: MERP/4622 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 92135735001, 92135735002, 92135735003, 92135735004, 92135735005, 92135735006, 92135735007, 92135735008

METHOD BLANK: 860246 — Matrix: Water
Associated Lab Samples: 92135735001, 92135735002, 92135735003, 92135735004, 92135735005, 92135735006, 92135735007, 92135735008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/29/12 13:54	

LABORATORY CONTROL SAMPLE: 860247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 860248 860249

Parameter	Units	92135834007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.6	102	103	75-125	0	25	

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QUALITY CONTROL DATA

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

QC Batch: MPRP/11795 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 92135735001, 92135735002, 92135735003, 92135735004, 92135735005, 92135735006, 92135735007, 92135735008

METHOD BLANK: 858662 Matrix: Water
Associated Lab Samples: 92135735001, 92135735002, 92135735003, 92135735004, 92135735005, 92135735006, 92135735007, 92135735008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	10/25/12 22:19	
Barium	ug/L	ND	5.0	10/25/12 22:19	
Cadmium	ug/L	ND	1.0	10/25/12 22:19	
Chromium	ug/L	ND	5.0	10/25/12 22:19	
Lead	ug/L	ND	5.0	10/25/12 22:19	
Selenium	ug/L	ND	10.0	10/25/12 22:19	
Silver	ug/L	ND	5.0	10/25/12 22:19	

LABORATORY CONTROL SAMPLE: 858663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	509	102	80-120	
Barium	ug/L	500	474	95	80-120	
Cadmium	ug/L	500	517	103	80-120	
Chromium	ug/L	500	525	105	80-120	
Lead	ug/L	500	498	100	80-120	
Selenium	ug/L	500	493	99	80-120	
Silver	ug/L	250	244	98	80-120	

MATRIX SPIKE SAMPLE: 858664

Parameter	Units	92135834003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	520	103	75-125	
Barium	ug/L	113	500	577	93	75-125	
Cadmium	ug/L	1.4	500	523	104	75-125	
Chromium	ug/L	ND	500	535	107	75-125	
Lead	ug/L	ND	500	495	99	75-125	
Selenium	ug/L	ND	500	501	100	75-125	
Silver	ug/L	ND	250	246	98	75-125	

SAMPLE DUPLICATE: 858665

Parameter	Units	92135834004 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	225	222	1	20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

SAMPLE DUPLICATE: 858665

Parameter	Units	92135834004 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

QC Batch: MSV/20868 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92135735001, 92135735002, 92135735003, 92135735004, 92135735005, 92135735006, 92135735007, 92135735008, 92135735009

METHOD BLANK: 861682 Matrix: Water
Associated Lab Samples: 92135735001, 92135735002, 92135735003, 92135735004, 92135735005, 92135735006, 92135735007, 92135735008, 92135735009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/27/12 13:53	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/27/12 13:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/27/12 13:53	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/27/12 13:53	
1,1-Dichloroethane	ug/L	ND	1.0	10/27/12 13:53	
1,1-Dichloroethene	ug/L	ND	1.0	10/27/12 13:53	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/27/12 13:53	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/27/12 13:53	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/27/12 13:53	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/27/12 13:53	
1,2-Dichloroethane	ug/L	ND	1.0	10/27/12 13:53	
1,2-Dichloropropane	ug/L	ND	1.0	10/27/12 13:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/27/12 13:53	
2-Butanone (MEK)	ug/L	ND	5.0	10/27/12 13:53	
2-Hexanone	ug/L	ND	5.0	10/27/12 13:53	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/27/12 13:53	
Acetone	ug/L	ND	25.0	10/27/12 13:53	
Acrylonitrile	ug/L	ND	10.0	10/27/12 13:53	
Benzene	ug/L	ND	1.0	10/27/12 13:53	
Bromochloromethane	ug/L	ND	1.0	10/27/12 13:53	
Bromodichloromethane	ug/L	ND	1.0	10/27/12 13:53	
Bromoform	ug/L	ND	1.0	10/27/12 13:53	
Bromomethane	ug/L	ND	2.0	10/27/12 13:53	
Carbon disulfide	ug/L	ND	2.0	10/27/12 13:53	
Carbon tetrachloride	ug/L	ND	1.0	10/27/12 13:53	
Chlorobenzene	ug/L	ND	1.0	10/27/12 13:53	
Chloroethane	ug/L	ND	1.0	10/27/12 13:53	
Chloroform	ug/L	ND	1.0	10/27/12 13:53	
Chloromethane	ug/L	ND	1.0	10/27/12 13:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/27/12 13:53	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/27/12 13:53	
Dibromochloromethane	ug/L	ND	1.0	10/27/12 13:53	
Dibromomethane	ug/L	ND	1.0	10/27/12 13:53	
Ethylbenzene	ug/L	ND	1.0	10/27/12 13:53	
Iodomethane	ug/L	ND	5.0	10/27/12 13:53	
Methylene Chloride	ug/L	ND	1.0	10/27/12 13:53	
Styrene	ug/L	ND	1.0	10/27/12 13:53	
Tetrachloroethene	ug/L	ND	1.0	10/27/12 13:53	
Toluene	ug/L	ND	1.0	10/27/12 13:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/27/12 13:53	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/27/12 13:53	

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QUALITY CONTROL DATA

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

METHOD BLANK: 861682 Matrix: Water

Associated Lab Samples: 92135735001, 92135735002, 92135735003, 92135735004, 92135735005, 92135735006, 92135735007, 92135735008, 92135735009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	10/27/12 13:53	
Trichloroethene	ug/L	ND	1.0	10/27/12 13:53	
Trichlorofluoromethane	ug/L	ND	1.0	10/27/12 13:53	
Vinyl acetate	ug/L	ND	2.0	10/27/12 13:53	
Vinyl chloride	ug/L	ND	1.0	10/27/12 13:53	
Xylene (Total)	ug/L	ND	2.0	10/27/12 13:53	
1,2-Dichloroethane-d4 (S)	%	96	70-130	10/27/12 13:53	
4-Bromofluorobenzene (S)	%	98	70-130	10/27/12 13:53	
Dibromofluoromethane (S)	%	90	70-130	10/27/12 13:53	
Toluene-d8 (S)	%	95	70-130	10/27/12 13:53	

LABORATORY CONTROL SAMPLE: 861683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.3	99	70-130	
1,1,1-Trichloroethane	ug/L	50	45.4	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.1	100	70-130	
1,1,2-Trichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethane	ug/L	50	47.7	95	70-130	
1,1-Dichloroethene	ug/L	50	45.3	91	70-132	
1,2,3-Trichloropropane	ug/L	50	47.5	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.4	109	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	70-130	
1,2-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,2-Dichloroethane	ug/L	50	46.9	94	70-130	
1,2-Dichloropropane	ug/L	50	48.9	98	70-130	
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	
2-Butanone (MEK)	ug/L	100	99.2	99	70-145	
2-Hexanone	ug/L	100	116	116	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	70-140	
Acetone	ug/L	100	106	106	50-175	
Acrylonitrile	ug/L	250	245	98	70-143	
Benzene	ug/L	50	48.6	97	70-130	
Bromochloromethane	ug/L	50	42.0	84	70-130	
Bromodichloromethane	ug/L	50	50.0	100	70-130	
Bromoform	ug/L	50	48.6	97	70-130	
Bromomethane	ug/L	50	39.0	78	54-130	
Carbon disulfide	ug/L	50	49.5	99	70-131	
Carbon tetrachloride	ug/L	50	45.2	90	70-132	
Chlorobenzene	ug/L	50	50.7	101	70-130	
Chloroethane	ug/L	50	44.8	90	64-134	
Chloroform	ug/L	50	44.2	88	70-130	
Chloromethane	ug/L	50	41.8	84	64-130	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	70-131	

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QUALITY CONTROL DATA

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

LABORATORY CONTROL SAMPLE: 861683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,3-Dichloropropene	ug/L	50	49.8	100	70-130	
Dibromochloromethane	ug/L	50	49.5	99	70-130	
Dibromomethane	ug/L	50	47.0	94	70-131	
Ethylbenzene	ug/L	50	51.0	102	70-130	
Iodomethane	ug/L	100	75.2	75	49-180	
Methylene Chloride	ug/L	50	43.2	86	63-130	
Styrene	ug/L	50	49.7	99	70-130	
Tetrachloroethene	ug/L	50	48.6	97	70-130	
Toluene	ug/L	50	46.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.9	92	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	58.9	118	70-141	
Trichloroethene	ug/L	50	45.7	91	70-130	
Trichlorofluoromethane	ug/L	50	45.8	92	62-133	
Vinyl acetate	ug/L	100	96.6	97	66-157	
Vinyl chloride	ug/L	50	40.5	81	69-130	
Xylene (Total)	ug/L	150	154	103	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			87	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 861684 861685

Parameter	Units	92135735006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	54.7	58.2	109	116	70-166	6	30	
Benzene	ug/L	ND	50	50	45.4	46.3	91	93	70-148	2	30	
Chlorobenzene	ug/L	ND	50	50	54.4	55.5	109	111	70-146	2	30	
Toluene	ug/L	ND	50	50	51.0	53.5	102	107	70-155	5	30	
Trichloroethene	ug/L	ND	50	50	51.2	52.5	102	105	69-151	3	30	
1,2-Dichloroethane-d4 (S)	%						100	100	70-130			
4-Bromofluorobenzene (S)	%						99	100	70-130			
Dibromofluoromethane (S)	%						93	94	70-130			
Toluene-d8 (S)	%						97	100	70-130			

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QUALIFIERS

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Madison Co Closed LF 10/18
Pace Project No.: 92135735

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92135735001	**MW-01-OLD**	EPA 3010	MPRP/11795	EPA 6010	ICP/10805
92135735002	**MW-02-OLD**	EPA 3010	MPRP/11795	EPA 6010	ICP/10805
92135735003	**MW-03-OLD**	EPA 3010	MPRP/11795	EPA 6010	ICP/10805
92135735004	**MW-04-OLD**	EPA 3010	MPRP/11795	EPA 6010	ICP/10805
92135735005	**BG Spring-OLD**	EPA 3010	MPRP/11795	EPA 6010	ICP/10805
92135735006	**SW-01-OLD**	EPA 3010	MPRP/11795	EPA 6010	ICP/10805
92135735007	**SW-02-OLD**	EPA 3010	MPRP/11795	EPA 6010	ICP/10805
92135735008	**DW-01 EDWARDS**	EPA 3010	MPRP/11795	EPA 6010	ICP/10805
92135735001	**MW-01-OLD**	EPA 7470	MERP/4622	EPA 7470	MERC/4528
92135735002	**MW-02-OLD**	EPA 7470	MERP/4622	EPA 7470	MERC/4528
92135735003	**MW-03-OLD**	EPA 7470	MERP/4622	EPA 7470	MERC/4528
92135735004	**MW-04-OLD**	EPA 7470	MERP/4622	EPA 7470	MERC/4528
92135735005	**BG Spring-OLD**	EPA 7470	MERP/4622	EPA 7470	MERC/4528
92135735006	**SW-01-OLD**	EPA 7470	MERP/4622	EPA 7470	MERC/4528
92135735007	**SW-02-OLD**	EPA 7470	MERP/4622	EPA 7470	MERC/4528
92135735008	**DW-01 EDWARDS**	EPA 7470	MERP/4622	EPA 7470	MERC/4528
92135735001	**MW-01-OLD**	EPA 8260	MSV/20868		
92135735002	**MW-02-OLD**	EPA 8260	MSV/20868		
92135735003	**MW-03-OLD**	EPA 8260	MSV/20868		
92135735004	**MW-04-OLD**	EPA 8260	MSV/20868		
92135735005	**BG Spring-OLD**	EPA 8260	MSV/20868		
92135735006	**SW-01-OLD**	EPA 8260	MSV/20868		
92135735007	**SW-02-OLD**	EPA 8260	MSV/20868		
92135735008	**DW-01 EDWARDS**	EPA 8260	MSV/20868		
92135735009	**TRIP BLANK**	EPA 8260	MSV/20868		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1655689

Section A Required Client Information:

Company: Altamont Environmental
Address: 231 Haywood St
Asheville, NC 28801
Email To: jlenk@altamontenvironmental.com
Phone: 828 281 3350 Fax: 828 281 3351
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Joel Lenk
Copy To: Marta van Dassen
Purchase Order No.:
Project Name: Madison Co Closed Landfill
Project Number: 2313

Section C Invoice Information:

Attention: Sue Beaver
Company Name: Altamont
Address: same
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): Metals Gold	Hg 7470	App I VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01-OLD	WT	G	10/18/12	954			15	4			X	X					X	X	X		-001
2	MW-02-OLD	WT	G	10/18/12	1034			14	4			X	X					X	X	X		-002
3	MW-03-OLD	WT	G	10/18/12	1059			15	4			X	X					X	X	X		-003
4	MW-04-OLD	WT	G	10/18/12	1153			15	4			X	X					X	X	X		-004
5	~~Abt~~ BG Spring-OLD	WT	G	10/18/12	1249			16	4			X	X					X	X	X		-005
6	SW-01-OLD	WT	G	10/18/12	1211			14	4			X	X					X	X	X		-006
7	SW-02-OLD	WT	G	10/18/12	1305			14	4			X	X					X	X	X		-007
8	DW-01 EDWARDS	WT	G	10/18/12	1334			16	4			X	X					X	X	X		-008
9	Trip Blank	WT		10/18/12				2	2				X							X		-009
10																						
11																						
12																						

92135735

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Parker Brooks / Altamont	10/18/12	1452	Jane Meehan	10/18/12	14:52	3.5

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Parker Brooks
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/18/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

APPENDIX C

Environmental Monitoring Form
and
Electronic Submittal of Environmental Monitoring Data
5802Oct2012 (CD only)

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):

Altamont Environmental, Inc.

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

Name: Marta A. VanDussen, EIT Phone: (828) 281-3350

E-mail: mvandussen@altamontenvironmental.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Madison County Closed Solid Waste Facility	389 Long Branch Road Marshall, NC 28753	58-02	.0500	October 18, 2012

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Andrew Moore, P.G. — Project Geologist — (828) 281-3350

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

Signature — 2-12-2013 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2339 GEOLOGIST ANDREW W. MOORE

231 Haywood Street, Asheville, North Carolina 28801

Facility Representative Address

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

Revised 6/2009